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: P1045962

Luminaire Tested: **FFX-CLB-50-722-U-PG-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:	P1045962
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-722-U-PG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4619.7 lumens
Efficiency:	N/A
Efficacy:	91.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
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

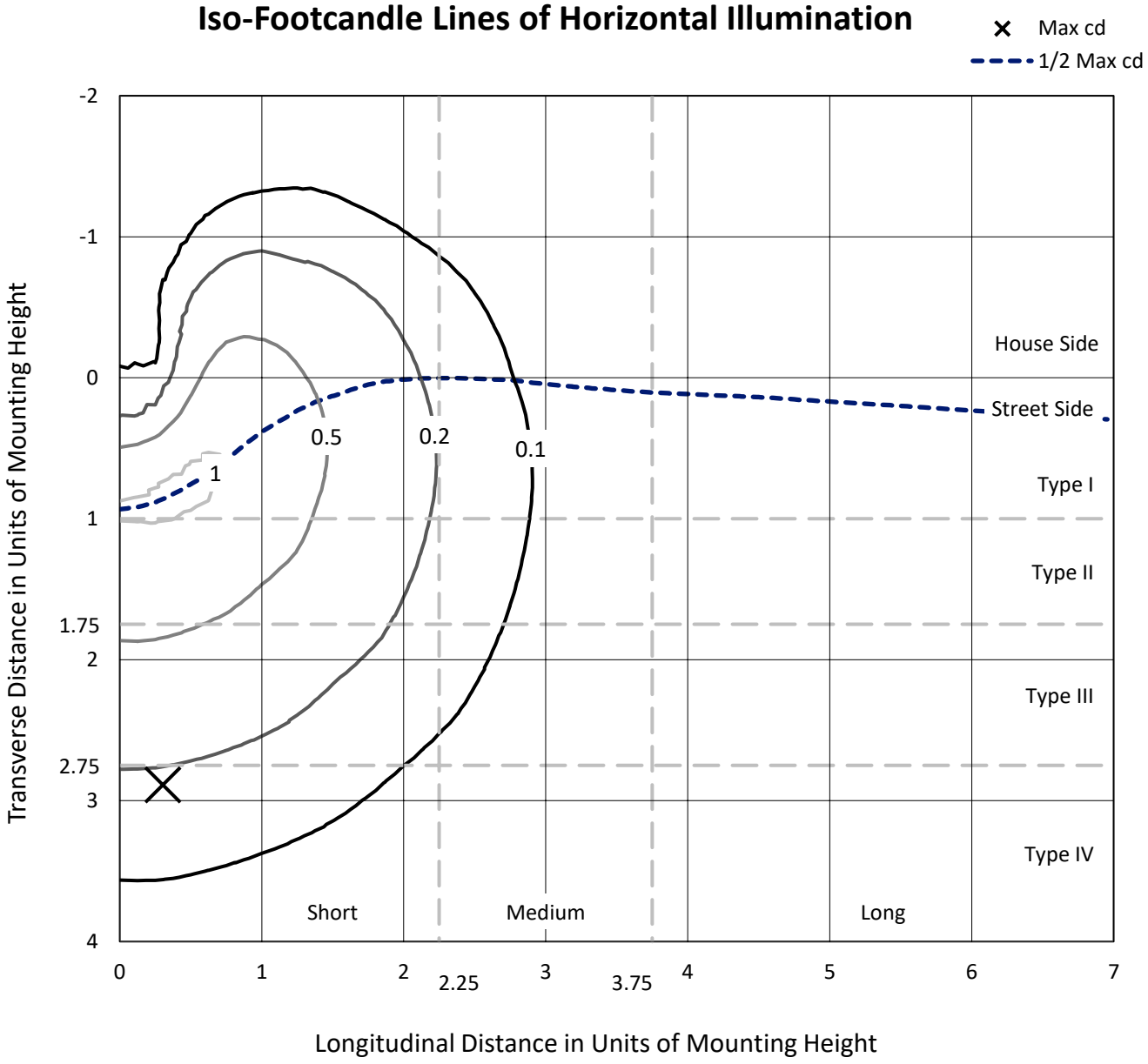


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Iso-Footcandle Lines of Horizontal Illumination



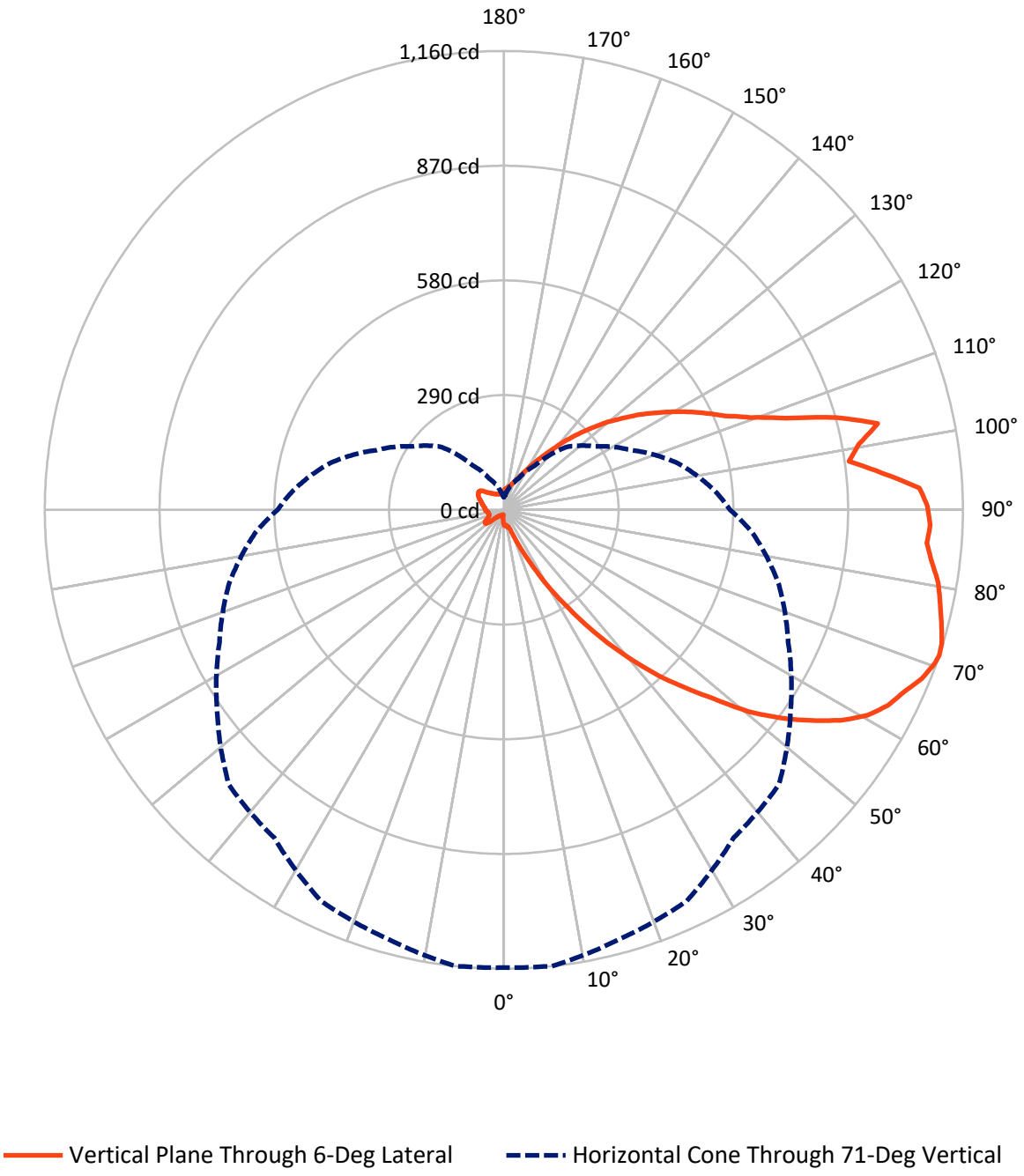
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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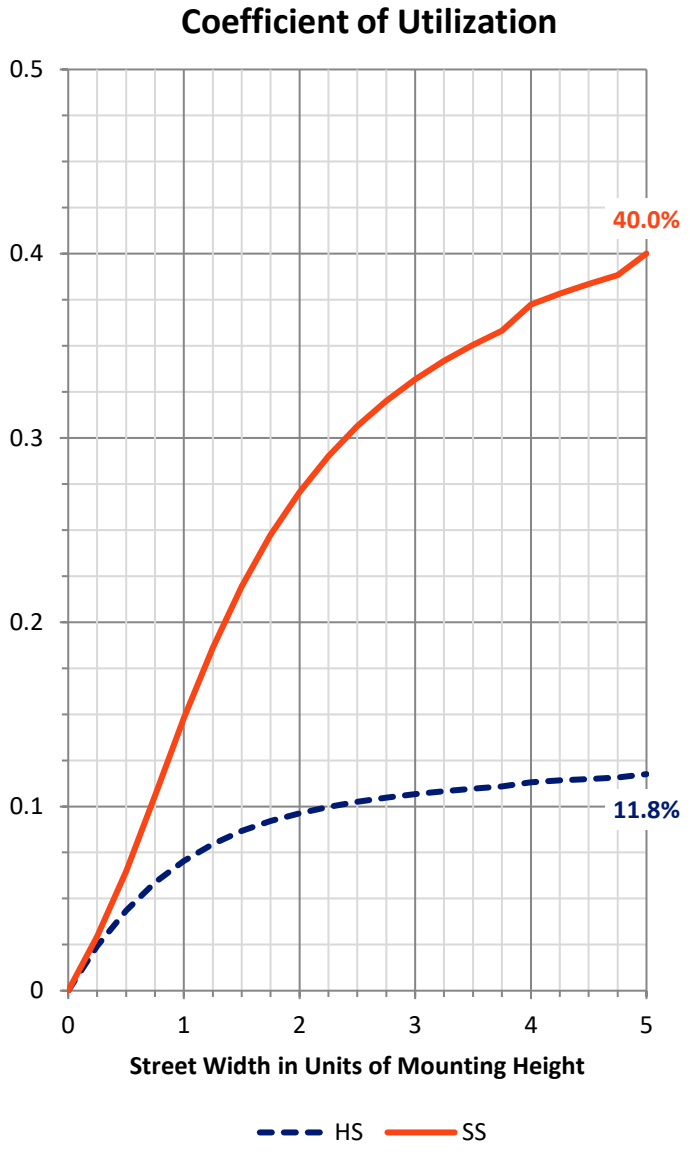
REPORT NUMBER: P1045962
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	593.2	470.4	1063.7
	% Fixture	12.8	10.2	23.0
Street Side	Lumens	2164.0	1392.1	3556.0
	% Fixture	46.8	30.1	77.0
Total	Lumens	2757.2	1862.5	4619.7
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.1
10°-20°	9.6	0.2
20°-30°	43.9	0.9
30°-40°	146.7	3.2
40°-50°	298.9	6.5
50°-60°	459.9	10.0
60°-70°	572.3	12.4
70°-80°	612.0	13.2
80°-90°	610.9	13.2
90°-100°	552.1	12.0
100°-110°	483.0	10.5
110°-120°	329.2	7.1
120°-130°	232.5	5.0
130°-140°	140.9	3.1
140°-150°	71.4	1.5
150°-160°	33.3	0.7
160°-170°	15.3	0.3
170°-180°	4.7	0.1
0°-90°	2757.2	59.7
0°-180°	4619.7	100.0



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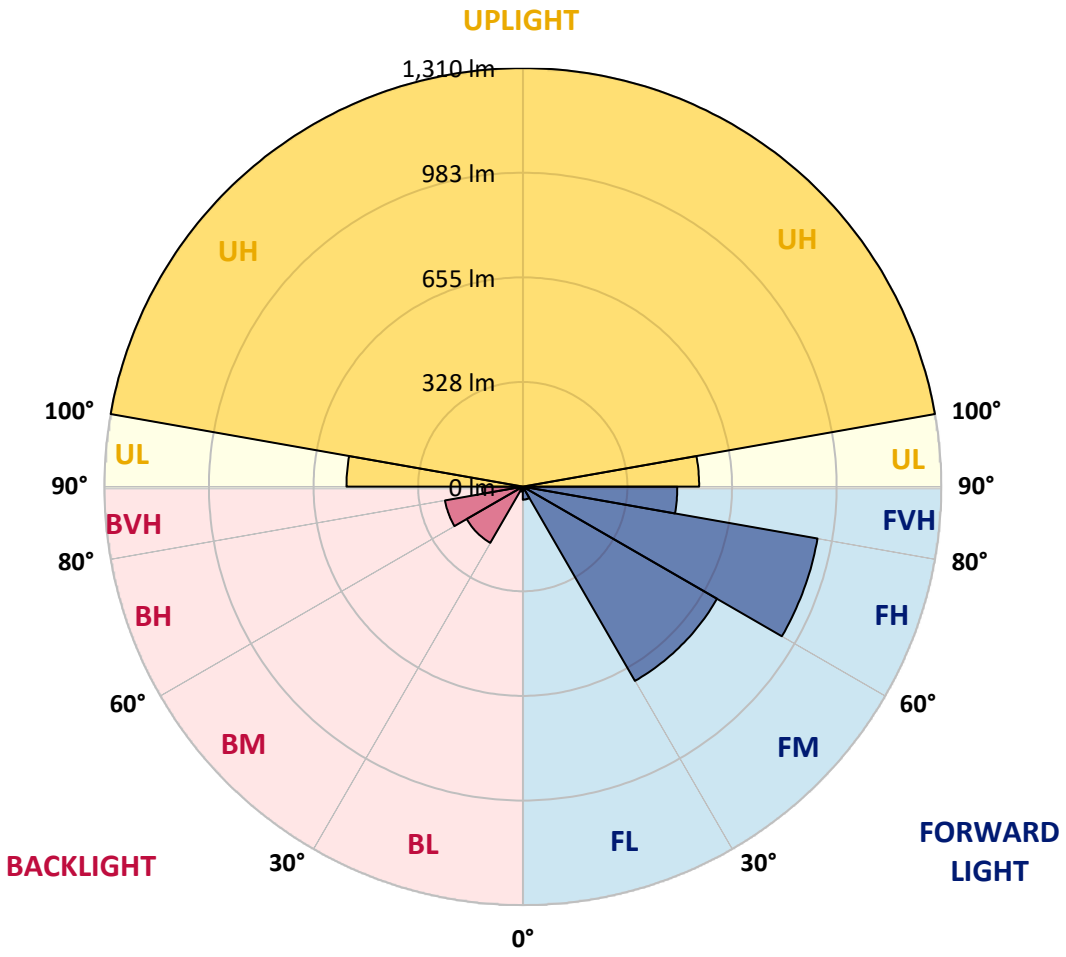
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	40.9	0.9			
FM	(30°-60°)	702.3	15.2			
FH	(60°-80°)	937.0	20.3			G1/1800
FVH	(80°-90°)	483.8	10.5			G3/500
BL	(0°-30°)	15.7	0.3	B0/110		
BM	(30°-60°)	203.2	4.4	B0/220		
BH	(60°-80°)	247.3	5.4	B1/500		G1/500
BVH	(80°-90°)	127.1	2.8			G2/225
UL	(90°-100°)	552.1	12.0		U4/1000	
UH	(100°-180°)	1310.4	28.4		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37.6	37.6	*37.6*	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	40.6	40.6	*40.6*	40.6	40.6	40.6	40.1	39.1	38.6	38.1	37.6
5°	38.6	38.6	*38.6*	38.6	38.6	38.6	38.6	38.1	37.6	36.6	35.6
7.5°	38.6	38.6	*38.6*	38.6	38.1	37.6	37.1	36.6	36.1	34.1	32.1
10°	42.1	42.6	*42.1*	42.1	40.6	39.1	38.1	36.6	35.6	34.6	32.1
12.5°	44.6	44.6	*44.6*	44.1	43.1	42.1	40.1	37.6	35.6	33.6	31.6
15°	46.2	46.2	*46.2*	46.2	45.2	43.6	42.1	40.1	38.1	35.6	33.1
17.5°	52.2	52.2	*52.2*	51.7	50.7	49.7	48.7	47.7	46.2	43.6	41.1
20°	68.7	70.2	*69.7*	68.2	67.2	66.2	66.7	65.7	64.7	61.2	57.2
22.5°	95.3	97.3	*96.8*	97.3	95.8	94.8	94.3	95.3	93.3	88.3	80.8
25°	133.9	133.9	*132.4*	136.5	137.0	131.9	132.9	132.4	130.9	121.9	109.9
27.5°	177.1	176.1	*175.6*	182.1	183.1	181.1	183.1	179.6	174.6	164.5	149.5
30°	227.3	231.3	*233.3*	234.3	237.3	239.3	241.8	238.8	225.3	213.2	192.1
32.5°	291.0	288.5	*288.0*	298.5	304.0	304.5	310.5	302.0	287.0	264.4	236.8
35°	361.2	355.2	*356.2*	362.7	371.7	378.3	382.8	366.2	350.7	321.1	285.0
37.5°	427.4	427.9	*427.4*	429.9	447.0	449.0	450.0	431.4	408.9	378.3	333.1
40°	495.2	496.2	*498.7*	506.7	524.8	521.2	513.2	496.7	467.6	432.9	379.8
42.5°	564.9	571.4	*572.9*	576.9	589.5	588.5	574.9	556.4	522.7	479.6	419.9
45°	639.6	638.6	*641.1*	646.7	656.7	656.7	632.6	605.5	568.9	520.2	456.0
47.5°	710.4	717.9	*713.4*	726.9	721.9	725.4	684.3	651.2	611.0	553.3	486.1
50°	799.7	803.7	*802.2*	800.7	785.6	785.6	743.5	698.8	653.7	585.5	516.2
52.5°	875.4	876.9	*874.4*	868.4	847.3	840.3	790.6	739.0	691.3	623.1	545.3
55°	945.7	935.6	*940.1*	930.6	897.5	890.0	842.8	769.6	724.4	650.2	570.4
57.5°	997.3	1002.9	*1004.4*	983.8	950.7	920.1	888.5	806.2	749.5	675.8	587.0
60°	1041.5	1056.5	*1055.5*	1024.4	995.3	940.6	923.1	838.3	766.1	698.3	605.0
62.5°	1074.6	1090.6	*1089.6*	1064.6	1038.5	961.7	942.1	857.4	776.1	709.9	618.6
65°	1107.2	1114.7	*1111.2*	1101.2	1070.1	981.3	960.2	865.9	784.6	714.9	623.6
67.5°	1140.3	1139.8	*1139.3*	1125.3	1091.6	999.3	974.8	878.4	793.2	720.4	627.1
70°	1156.9	1157.9	*1157.4*	1127.8	1096.7	1011.4	982.8	885.0	795.2	720.4	630.1
71°	*1157.9*	*1159.4*	*1160.4*	*1124.8*	*1092.2*	*1012.4*	*983.3*	*885.0*	*793.2*	*718.9*	*628.6*
72.5°	1150.8	1158.4	*1157.4*	1117.2	1085.6	1010.9	979.8	880.9	790.1	712.9	624.1
75°	1135.3	1148.8	*1142.8*	1102.2	1069.1	1000.8	970.2	876.9	782.6	704.9	620.1
77.5°	1121.7	1137.3	*1127.3*	1089.6	1060.0	993.8	965.2	877.9	777.1	699.8	618.6
80°	1112.7	1121.2	*1113.2*	1082.1	1052.5	985.8	961.7	878.4	775.6	697.3	614.1
82.5°	1099.2	1095.7	*1090.1*	1065.6	1035.5	971.2	947.7	870.4	772.1	692.3	609.0
85°	1087.1	1072.6	*1072.6*	1050.5	1019.9	959.7	931.1	860.9	766.1	687.3	603.0
87.5°	1094.2	1074.6	*1078.6*	1057.5	1023.9	961.2	928.1	859.9	768.6	688.3	599.5
90°	1087.1	1068.6	*1070.6*	1048.5	1009.4	945.7	905.5	839.8	752.5	674.3	587.0
92.5°	1075.1	1055.5	*1052.5*	1029.9	990.3	930.1	888.0	826.8	740.0	663.2	582.4
95°	982.3	968.2	*962.2*	946.2	915.6	862.9	829.8	771.1	684.8	614.6	544.8
97.5°	887.0	889.5	*880.9*	861.9	828.3	787.1	750.5	694.3	621.6	560.9	493.1
100°	924.6	921.1	*912.6*	887.0	851.8	805.7	762.5	708.4	637.6	582.9	508.2
102.5°	965.7	973.8	*970.2*	938.1	898.5	861.4	828.8	774.6	696.8	639.1	559.4
105°	853.4	869.4	*872.9*	847.8	818.7	787.6	759.0	720.9	653.7	594.5	531.8
107.5°	744.0	746.5	*749.0*	729.9	715.4	687.8	659.2	624.6	573.4	528.3	467.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
110°	668.2	670.7	*666.7*	658.7	643.7	622.6	591.0	566.9	522.2	484.1	428.4
112.5°	608.0	610.5	*607.5*	597.5	584.0	567.4	534.3	514.2	476.1	440.5	390.3
115°	569.4	572.4	*567.4*	556.9	545.3	536.3	507.7	478.1	443.5	411.9	368.7
117.5°	532.8	538.8	*527.3*	524.3	515.7	506.7	474.1	448.0	417.9	389.3	354.7
120°	492.6	497.7	*488.1*	484.6	479.6	470.6	440.0	416.4	392.3	366.7	333.6
122.5°	460.5	453.5	*449.0*	449.0	443.0	437.0	405.4	385.8	366.7	345.2	311.0
125°	423.9	414.4	*412.4*	415.9	408.4	400.3	375.3	357.7	343.1	321.6	288.0
127.5°	382.8	373.7	*373.7*	375.3	370.7	362.7	346.2	331.6	322.6	299.5	265.9
130°	344.2	339.1	*340.1*	336.6	332.1	325.6	313.5	303.0	295.5	272.4	248.3
132.5°	298.0	303.5	*303.5*	297.5	296.5	291.5	281.9	276.9	265.4	246.3	226.3
135°	265.4	269.9	*269.4*	263.9	263.4	260.4	253.3	248.8	237.8	221.7	205.2
137.5°	237.8	237.8	*236.8*	233.3	231.3	230.8	224.2	219.7	209.2	198.2	184.6
140°	210.7	206.2	*204.7*	205.2	202.2	201.7	196.2	190.6	185.6	175.1	164.0
142.5°	182.6	179.6	*178.1*	176.1	175.1	173.6	170.1	165.6	160.5	153.5	143.5
145°	156.0	156.0	*155.0*	153.0	153.0	151.0	147.5	145.0	140.5	132.9	124.9
147.5°	135.5	133.9	*133.9*	133.4	131.9	130.9	127.9	124.4	121.4	115.4	107.9
150°	116.4	116.4	*115.4*	116.4	115.4	113.9	111.9	108.9	105.4	100.8	94.8
152.5°	101.3	101.8	*100.8*	102.3	101.3	100.3	97.8	95.8	91.8	87.8	83.8
155°	90.3	90.8	*90.3*	89.8	89.8	88.3	87.3	84.3	81.8	78.3	74.7
157.5°	80.3	80.8	*80.8*	80.8	80.8	79.3	77.3	75.3	73.2	70.2	67.2
160°	73.7	73.2	*73.2*	72.7	72.2	71.7	70.2	68.2	66.7	64.2	61.7
162.5°	67.2	67.2	*67.2*	66.7	66.2	65.7	64.7	62.7	61.2	59.2	57.2
165°	62.7	62.7	*62.7*	62.7	61.7	61.2	60.2	58.7	57.7	55.7	53.7
167.5°	59.7	59.7	*59.7*	59.2	58.7	58.2	57.7	56.2	55.2	53.7	52.2
170°	57.2	57.2	*57.2*	57.2	56.7	55.7	55.2	54.2	53.2	52.2	50.7
172.5°	54.7	54.7	*54.7*	54.7	54.2	54.2	53.7	52.7	52.2	50.7	50.2
175°	52.7	52.7	*52.7*	52.7	52.2	52.2	51.7	51.2	50.7	50.2	49.2
177.5°	51.2	51.2	*51.2*	51.2	50.7	50.7	50.7	50.2	49.7	49.2	49.2
180°	49.2	49.2	*49.2*	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	37.6	37.6	36.6	36.1	35.6	34.6	33.6	32.1	32.1	32.1	31.6
5°	35.1	34.6	33.6	32.1	31.6	31.1	30.1	28.1	25.6	23.6	23.6
7.5°	32.6	30.1	27.6	26.6	25.1	22.6	20.1	17.1	13.5	13.0	13.0
10°	30.6	29.1	26.1	23.6	21.1	20.6	18.6	15.6	14.0	12.5	12.5
12.5°	30.1	29.1	25.6	22.6	19.6	18.1	16.6	15.1	13.5	12.5	12.5
15°	31.6	30.6	27.1	23.6	20.1	18.1	16.1	14.5	14.0	13.5	13.5
17.5°	39.6	38.1	33.1	27.6	23.1	20.1	17.6	16.1	15.6	15.1	15.1
20°	53.7	51.2	44.1	36.6	29.6	23.1	19.6	17.1	16.6	16.1	16.1
22.5°	76.3	71.7	59.7	48.2	37.6	29.1	22.6	18.1	16.6	16.1	16.1
25°	103.8	97.8	80.3	63.2	47.7	37.1	27.6	20.6	16.6	15.6	15.6
27.5°	140.5	129.9	106.4	84.8	63.7	47.2	34.6	24.6	18.1	15.6	15.1
30°	179.1	166.1	136.0	107.4	80.8	59.2	42.6	29.6	20.6	15.6	15.1
32.5°	221.2	203.7	170.6	135.0	100.3	73.2	52.2	34.6	23.6	16.6	15.6
35°	264.4	244.8	203.7	164.0	120.4	87.3	62.2	40.1	25.6	17.6	16.6
37.5°	308.0	286.0	241.3	190.1	140.0	101.8	72.2	46.2	27.6	18.6	17.6
40°	351.7	325.1	275.9	214.7	159.0	116.4	81.8	51.2	29.1	20.1	19.6
42.5°	385.8	358.7	304.5	235.3	179.1	129.4	91.3	55.2	30.6	22.6	21.6
45°	416.9	388.3	328.6	253.8	194.7	145.0	102.3	61.7	33.6	25.6	24.6
47.5°	448.5	420.4	353.7	271.9	209.7	160.5	115.4	68.7	41.6	33.1	32.6
50°	476.1	445.0	380.8	296.5	228.8	175.1	128.9	77.3	49.2	48.2	48.7
52.5°	502.7	471.6	403.8	314.6	241.8	192.6	142.0	80.8	55.7	56.7	57.7
55°	532.3	496.2	422.4	328.6	249.3	204.2	149.5	83.8	61.7	57.7	56.7
57.5°	552.3	510.7	437.5	344.2	257.4	211.2	150.0	87.3	66.7	55.7	54.2
60°	565.9	518.7	445.5	352.7	268.4	217.7	148.5	87.8	69.7	51.2	46.7
62.5°	574.9	529.3	452.5	354.7	276.9	222.7	148.0	85.8	68.7	45.7	42.1
65°	578.9	538.3	459.0	355.7	278.4	226.3	148.0	84.8	67.2	40.1	36.1
67.5°	578.9	541.3	461.5	357.7	277.4	227.3	143.5	87.8	65.2	38.1	33.1
70°	575.9	539.8	458.0	357.2	279.4	226.3	138.5	87.8	62.2	38.1	31.6
71°	*571.9*	*536.8*	*455.5*	*356.7*	*279.9*	*225.3*	*136.5*	*87.3*	*60.7*	*37.1*	*32.1*
72.5°	566.4	532.3	451.0	355.7	278.4	222.2	132.4	87.8	59.2	36.6	32.6
75°	560.4	528.8	447.5	351.7	277.9	217.7	125.4	86.3	58.7	37.1	33.6
77.5°	558.4	529.3	445.5	350.7	277.9	215.2	120.4	85.3	57.7	37.6	35.6
80°	553.9	528.3	441.5	348.2	276.9	210.7	118.9	85.3	56.7	38.1	36.6
82.5°	549.3	525.8	438.0	345.7	275.4	204.7	117.4	84.8	55.7	39.6	38.6
85°	545.3	525.3	438.0	344.2	274.9	201.2	116.9	84.3	55.2	41.1	40.1
87.5°	545.3	527.8	442.5	348.2	279.4	201.2	118.9	85.3	55.7	43.1	42.6
90°	535.3	516.7	435.5	345.7	280.9	201.7	120.9	87.8	57.7	45.2	44.1
92.5°	532.3	511.7	433.4	348.2	282.9	201.7	123.4	90.3	59.2	46.2	45.2
95°	499.2	476.1	407.9	330.6	270.4	196.2	124.4	89.8	60.2	46.7	46.2
97.5°	453.0	427.9	363.7	294.0	239.3	176.1	113.4	84.3	59.7	48.2	47.2
100°	468.6	439.0	371.7	299.0	235.3	172.6	111.4	81.8	61.2	50.2	49.2
102.5°	511.7	479.6	408.9	331.1	256.4	190.6	124.4	86.8	64.2	52.7	51.2
105°	486.1	450.5	394.8	320.6	249.8	190.6	124.9	88.3	67.2	54.7	53.7
107.5°	429.4	396.3	347.7	285.5	228.8	176.1	118.4	85.8	69.7	57.2	55.7

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

Scaled Data Report

REPORT NUMBER: P1045962
CATALOG NUMBER: FFX-CLB-50-722-U-PG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	396.8	361.2	316.6	260.4	212.7	163.5	113.9	84.3	71.2	60.2	58.2
112.5°	362.2	331.6	288.5	239.3	198.2	151.0	110.9	83.8	72.2	63.2	61.2
115°	342.6	311.0	273.9	226.3	188.6	147.0	109.9	86.3	75.8	67.2	65.2
117.5°	325.6	299.5	266.4	216.2	182.1	145.5	111.9	89.3	78.3	70.7	68.2
120°	308.0	283.9	253.8	208.2	176.6	140.5	112.4	90.8	80.3	73.7	72.2
122.5°	297.5	270.4	240.8	201.2	170.1	137.0	111.9	92.8	80.8	75.3	75.3
125°	277.9	256.4	226.8	192.1	160.5	135.0	111.9	91.8	82.3	77.3	76.3
127.5°	256.4	242.3	212.7	182.1	154.0	129.9	108.9	91.8	81.8	77.3	77.3
130°	236.3	223.7	199.7	168.6	148.0	122.9	104.3	87.3	78.8	75.8	75.8
132.5°	213.7	205.7	183.1	155.5	136.0	114.4	98.3	80.8	73.7	71.2	71.2
135°	193.1	185.6	164.5	141.5	123.9	106.4	91.3	76.3	67.7	64.7	64.7
137.5°	174.1	167.1	148.5	128.9	112.9	98.3	84.3	71.7	63.2	59.7	60.2
140°	154.5	146.0	133.4	116.9	102.3	90.8	77.3	67.2	59.2	56.2	55.7
142.5°	137.0	130.4	118.9	104.9	92.3	83.3	71.2	62.7	56.2	53.2	52.7
145°	120.9	115.4	105.4	93.8	83.8	75.3	65.7	58.7	53.2	50.7	50.2
147.5°	103.8	100.3	92.8	83.8	75.3	67.7	61.2	54.7	51.2	48.2	47.7
150°	91.3	88.8	82.8	75.3	68.7	62.7	57.7	51.7	48.7	46.7	46.2
152.5°	81.3	78.8	73.7	68.2	62.7	58.2	53.7	49.7	46.7	45.2	44.6
155°	72.7	70.7	66.7	62.2	57.7	53.7	50.2	47.2	45.2	43.6	43.6
157.5°	66.2	64.2	61.2	57.2	53.7	50.2	47.7	45.2	44.1	42.6	42.6
160°	60.7	59.2	56.7	53.2	50.2	47.7	45.7	43.6	43.1	42.1	42.1
162.5°	56.2	55.2	52.7	50.2	48.2	46.2	44.6	43.1	42.1	41.6	41.6
165°	53.2	52.2	50.7	48.7	46.7	45.2	44.1	42.6	42.1	42.1	41.6
167.5°	51.7	50.7	49.2	47.2	45.7	45.2	44.1	43.1	42.6	42.6	42.1
170°	50.2	49.7	48.7	47.2	45.7	45.2	44.6	43.6	43.6	43.1	43.1
172.5°	49.7	49.2	48.2	47.2	46.2	45.7	45.2	44.6	44.6	44.6	44.1
175°	49.2	49.2	48.2	47.2	46.7	46.7	46.2	45.7	45.7	45.7	45.7
177.5°	49.2	48.7	48.7	48.2	47.7	47.7	47.7	47.2	47.2	47.2	47.2
180°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

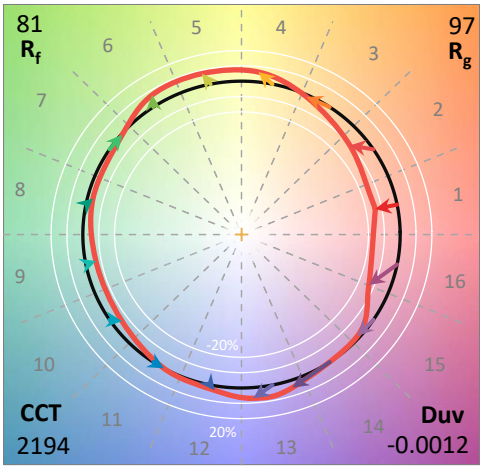
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
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-20-722-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):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

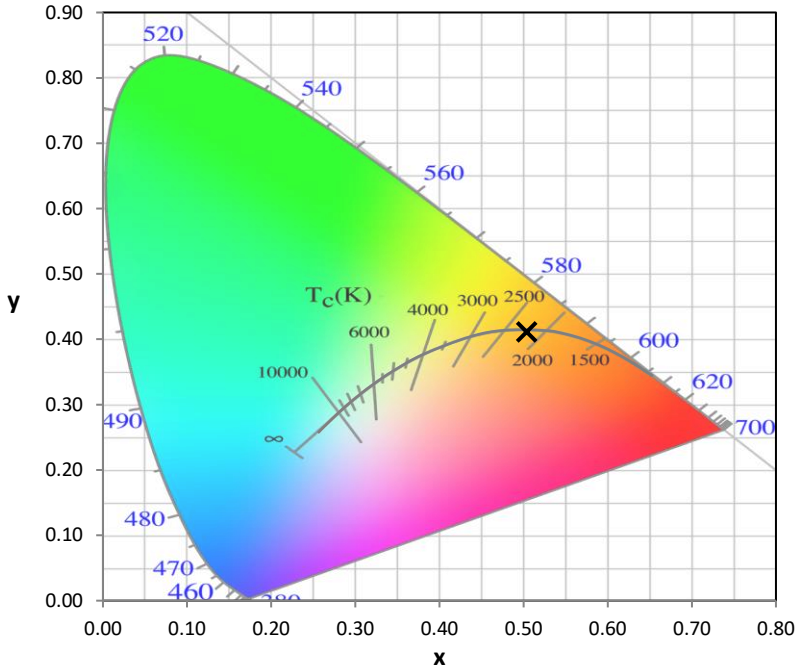
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

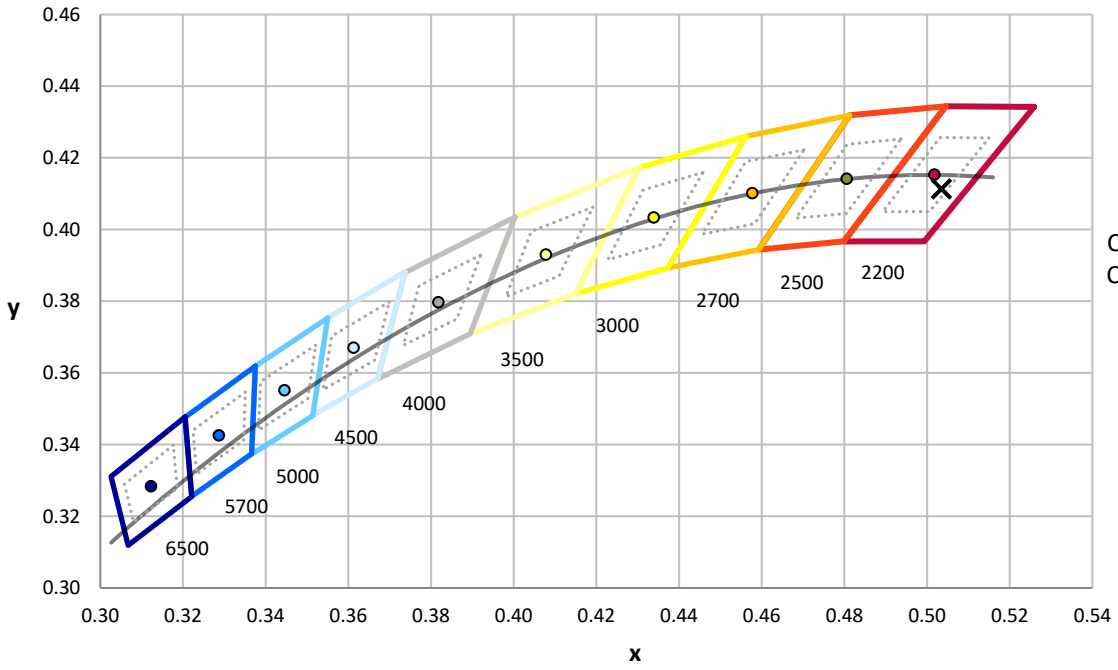
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

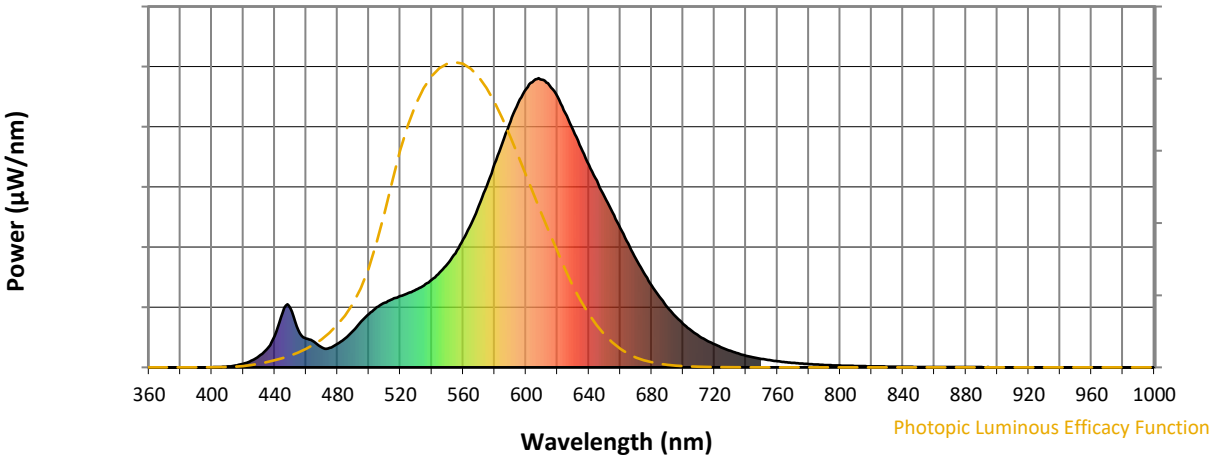


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

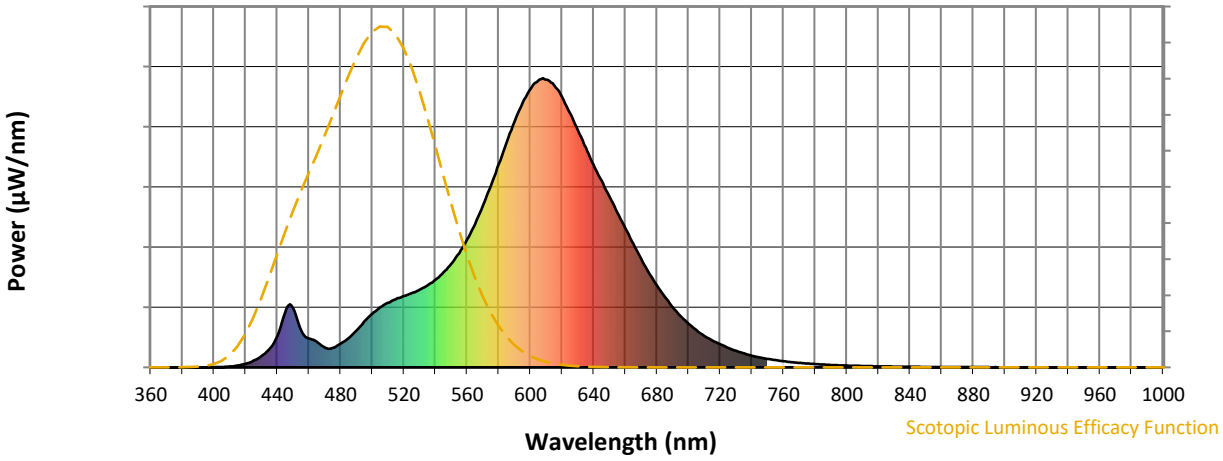


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

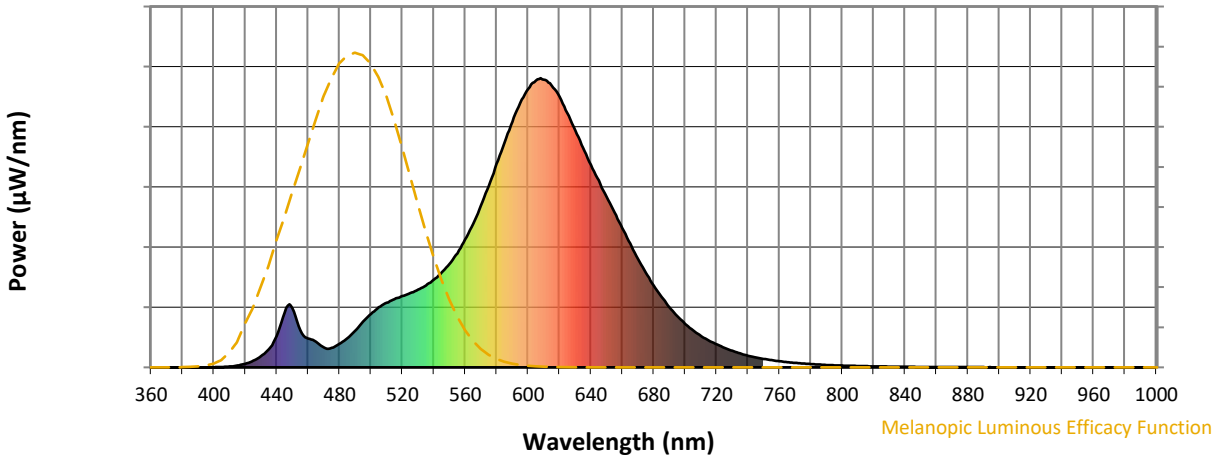


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

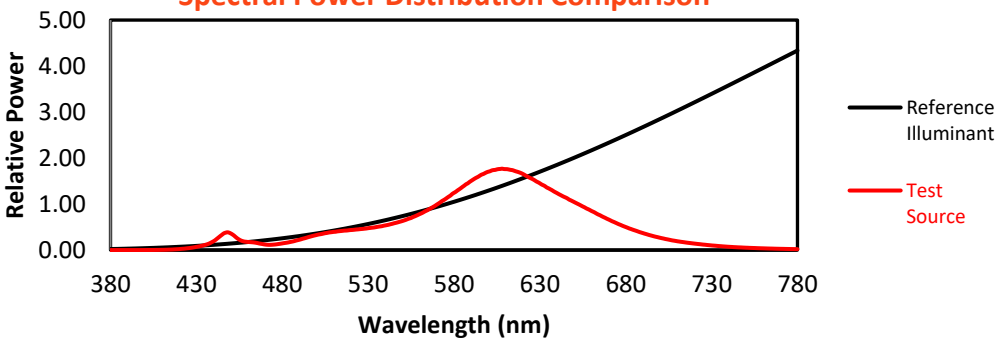
REPORT NUMBER: SP1-2501-332-7

TM-30-18

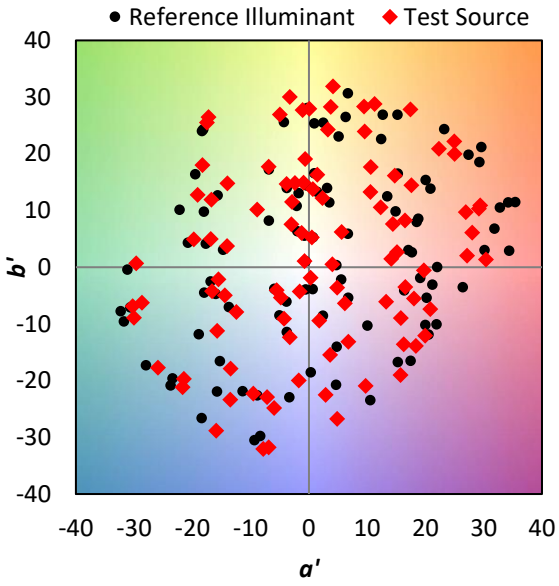
Summary

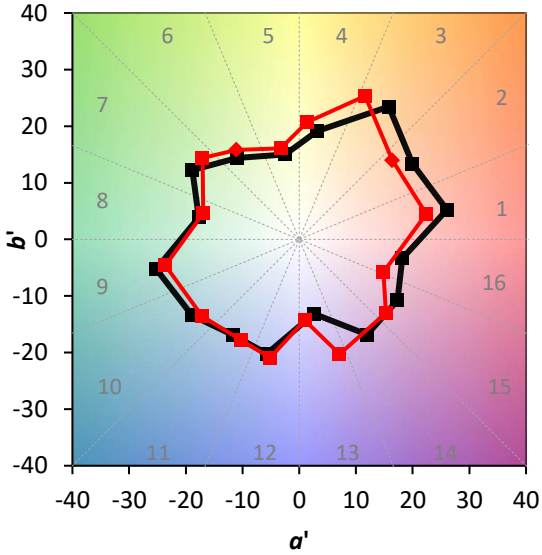
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

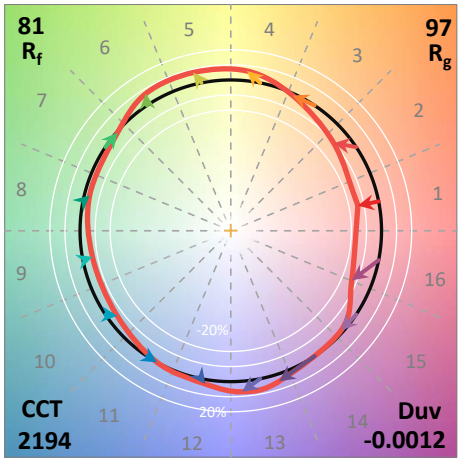
Spectral Power Distribution Comparison

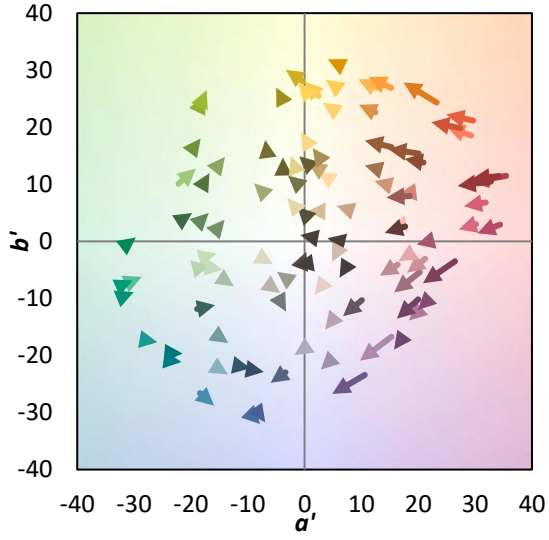


Color Vector Graphics







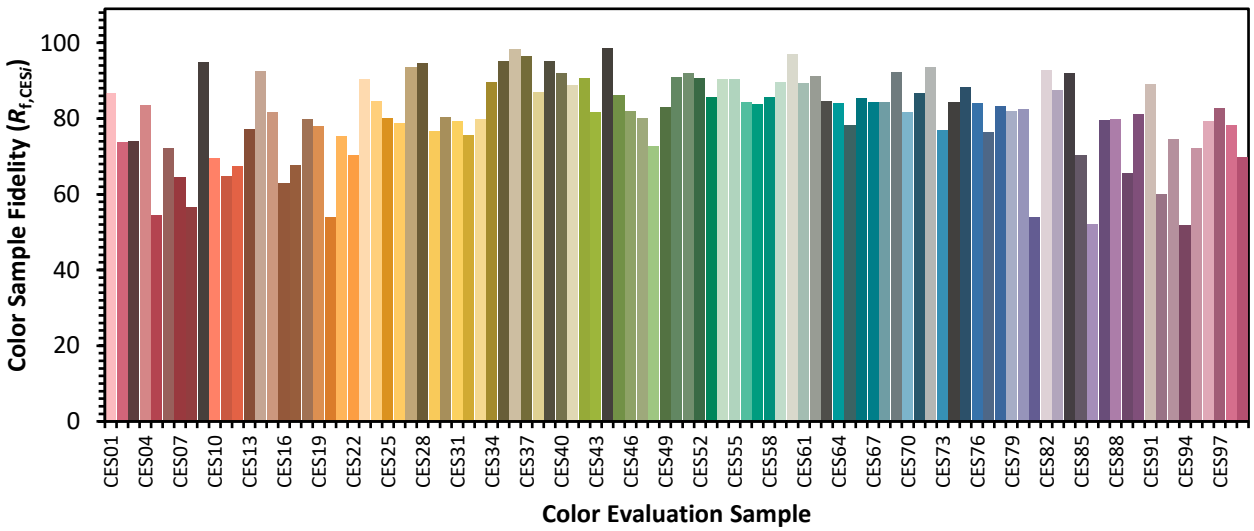


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

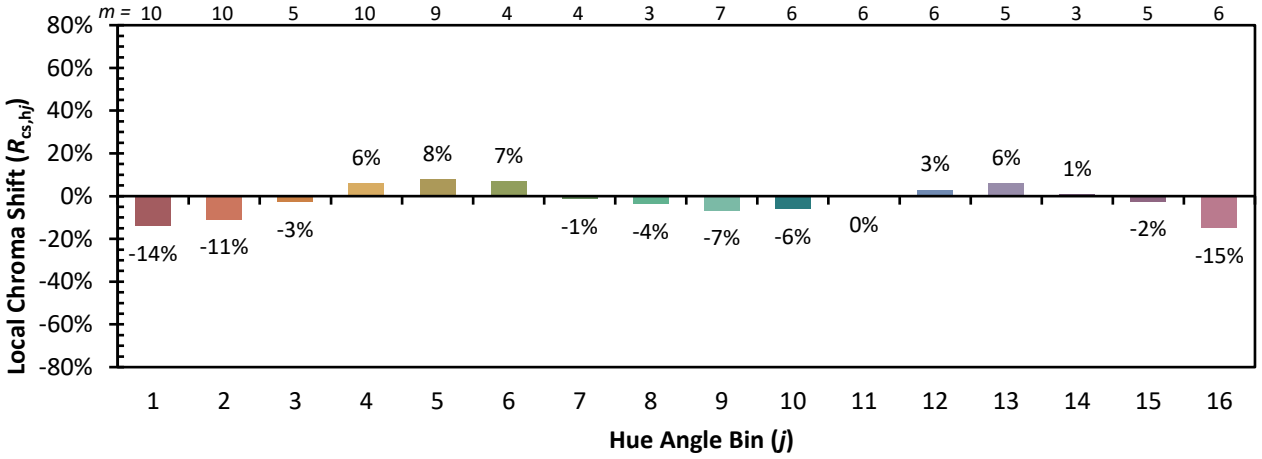
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

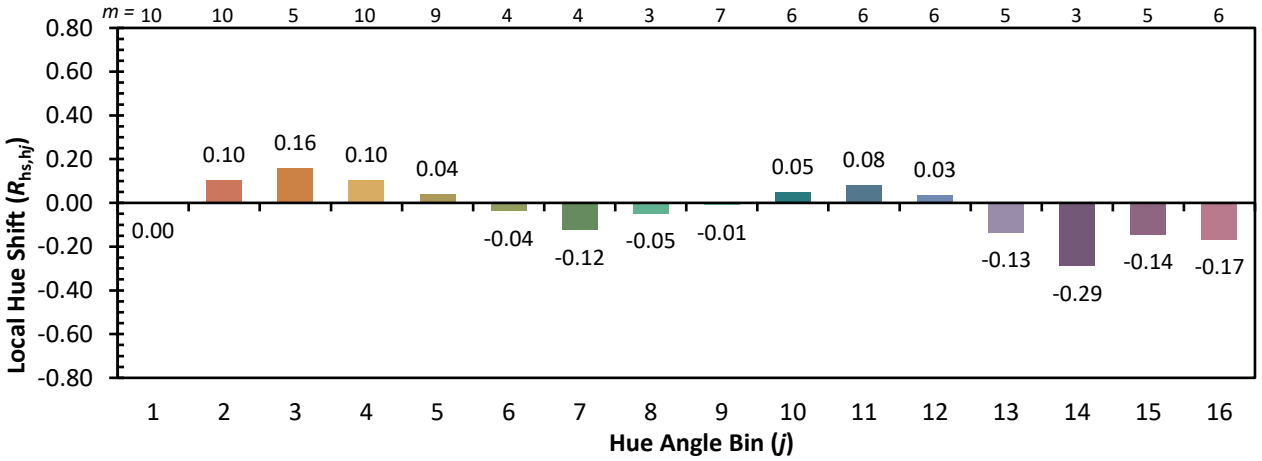


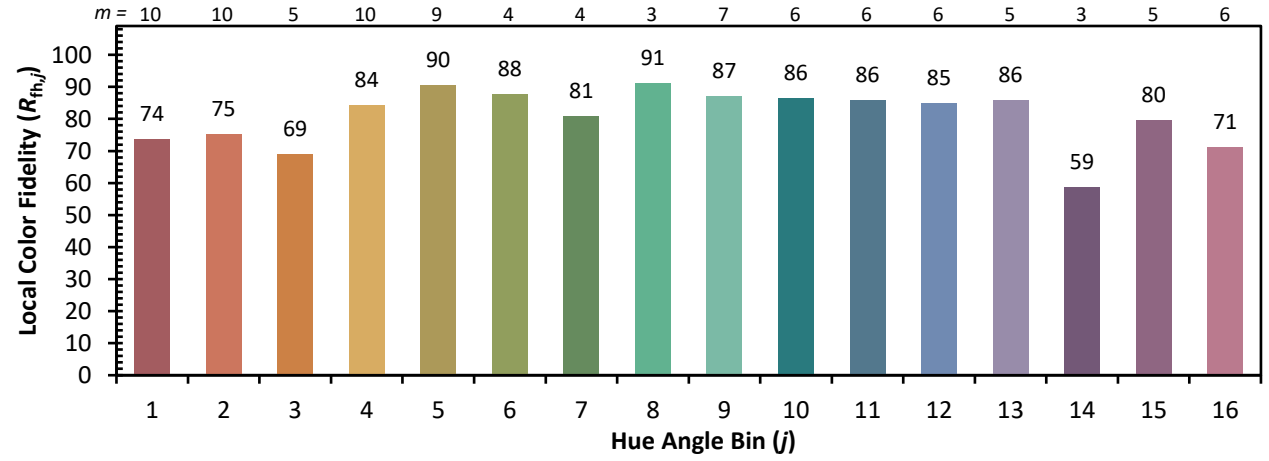
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Color Rendition by Hue-Angle Bin



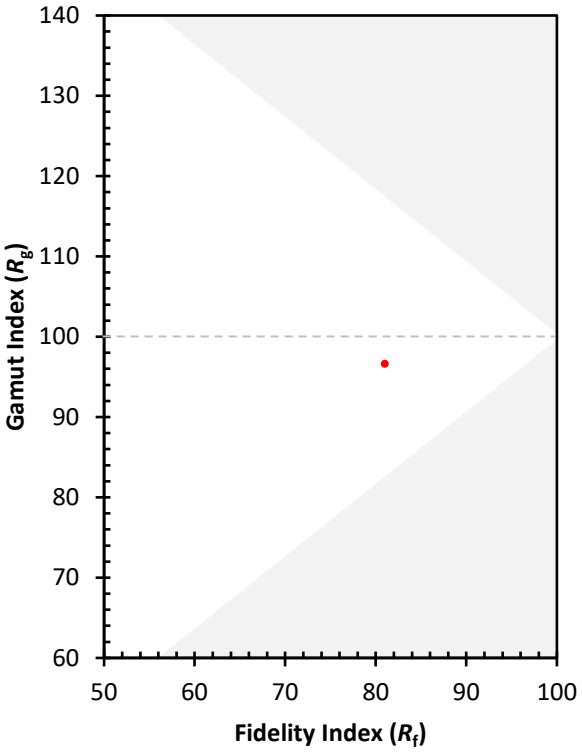


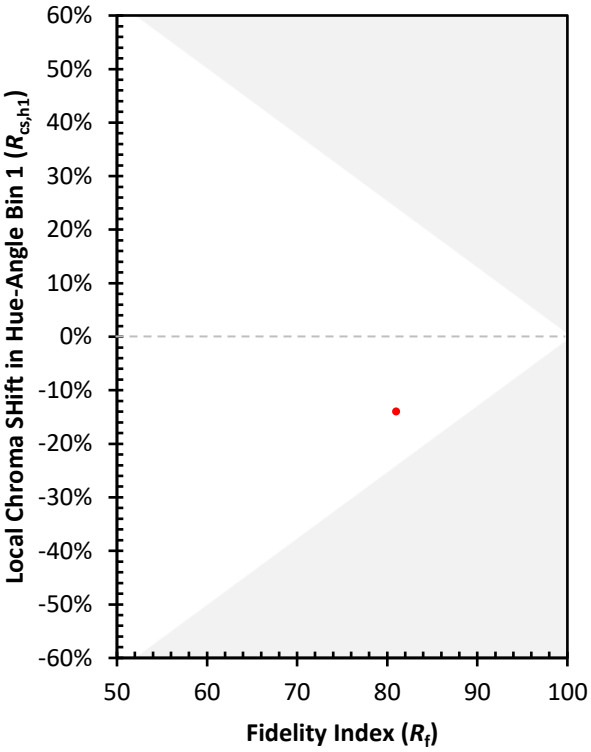


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Measure Comparisons





(END OF REPORT)