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: P1223928

Luminaire Tested: **FFX-CLB-50-722-U-VM9-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223928
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-722-U-VM9-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5926 lumens
Efficiency:	N/A
Efficacy:	117.1 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

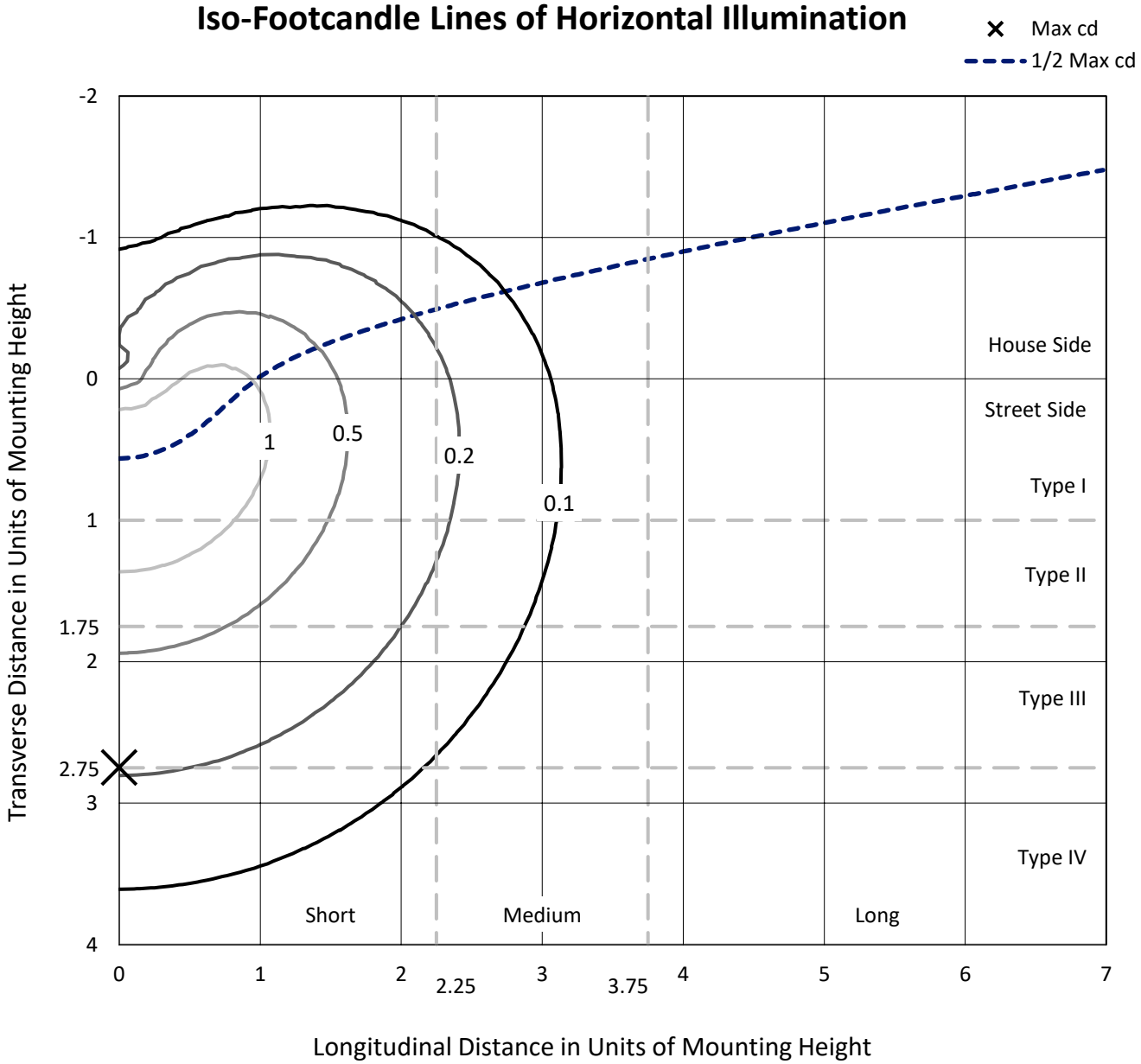


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223928
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



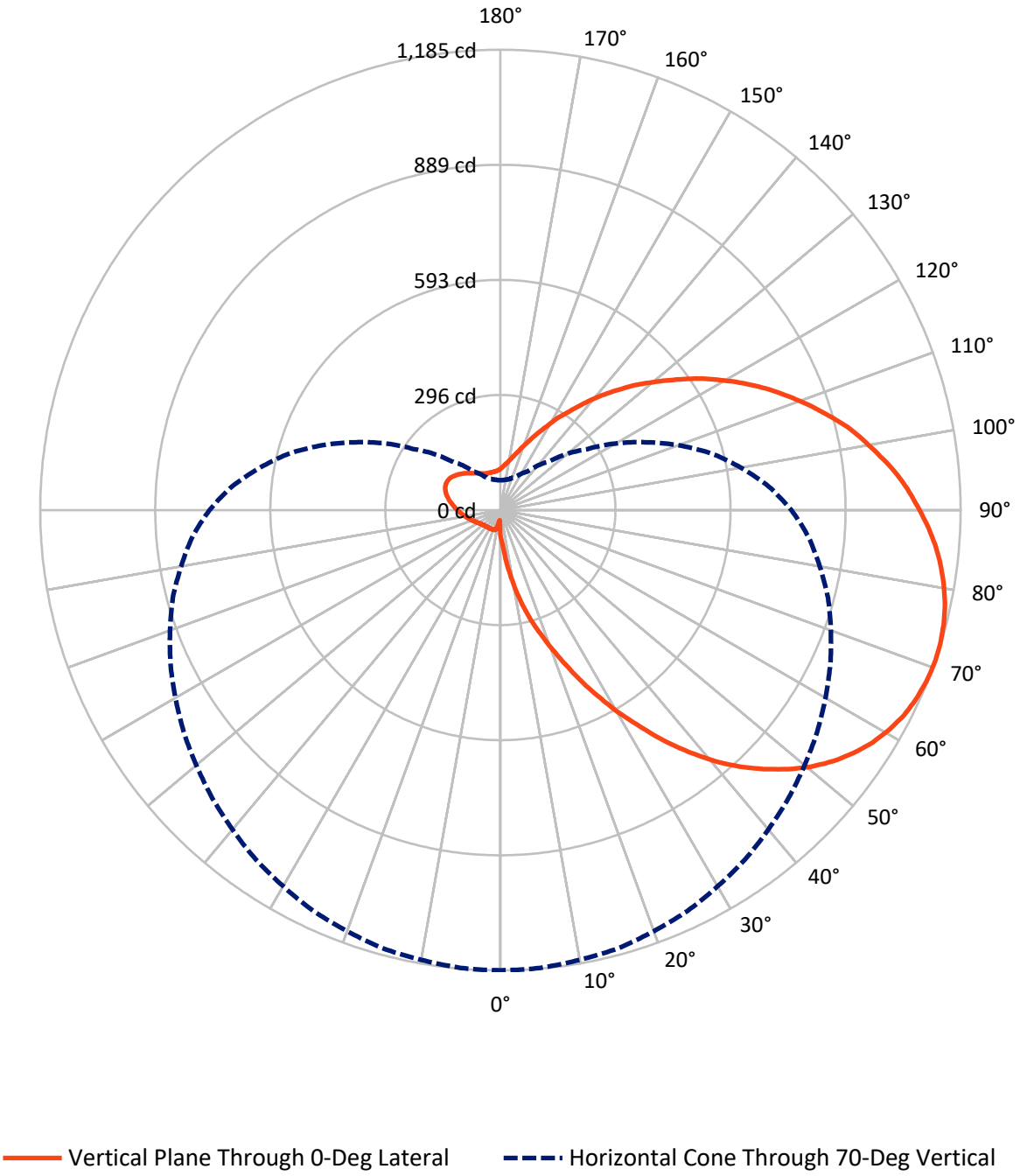
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223928
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

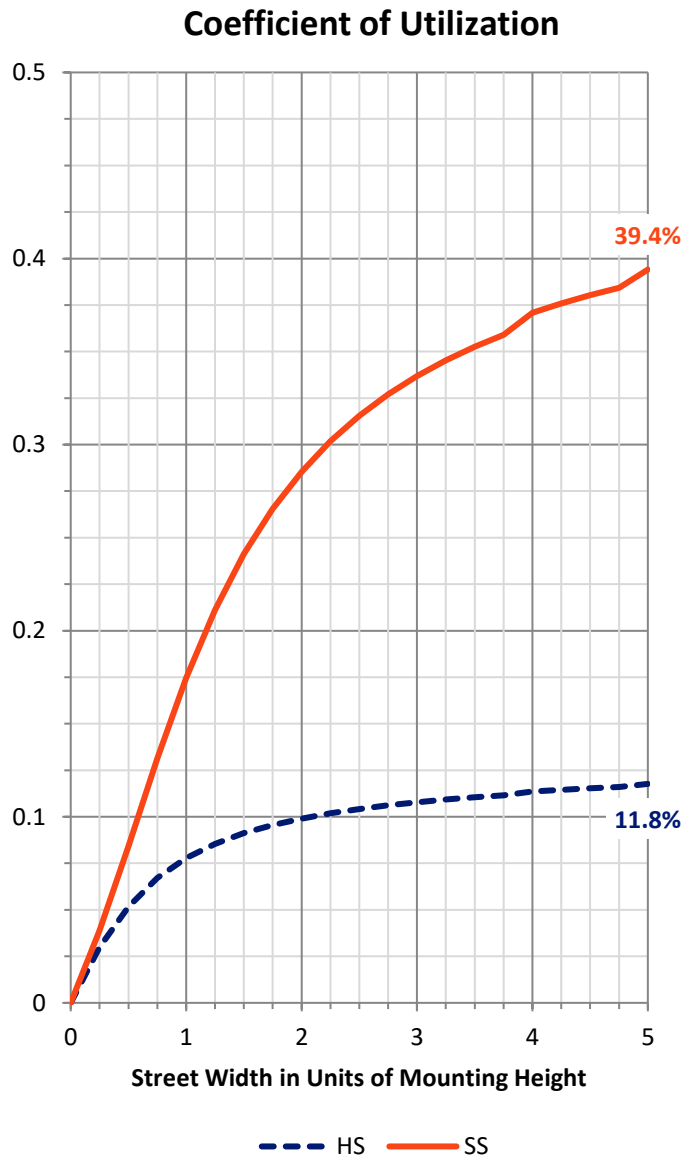
REPORT NUMBER: P1223928
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	759.9	733.1	1493.0
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	2669.1	1763.8	4433.0
	% Fixture	45.0	29.8	74.8
Total	Lumens	3429.0	2497.0	5926.0
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.2
10°-20°	51.8	0.9
20°-30°	136.3	2.3
30°-40°	264.8	4.5
40°-50°	412.6	7.0
50°-60°	544.3	9.2
60°-70°	639.1	10.8
70°-80°	687.6	11.6
80°-90°	683.7	11.5
90°-100°	635.6	10.7
100°-110°	558.1	9.4
110°-120°	459.0	7.7
120°-130°	345.6	5.8
130°-140°	234.2	4.0
140°-150°	141.8	2.4
150°-160°	76.3	1.3
160°-170°	35.9	0.6
170°-180°	10.4	0.2
0°-90°	3429.0	57.9
0°-180°	5926.0	100.0



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

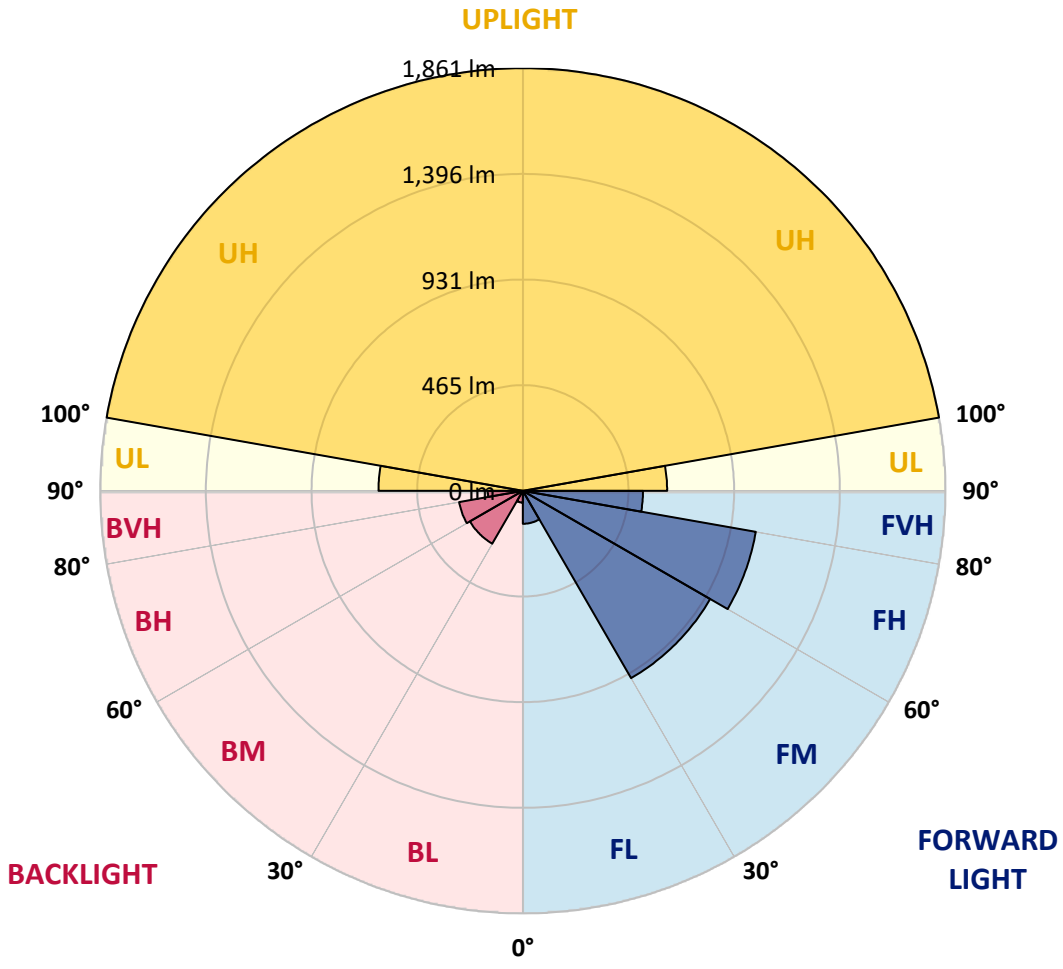
Scaled Data Report

REPORT NUMBER: P1223928
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	145.2	2.4			
FM	(30°-60°)	952.7	16.1			
FH	(60°-80°)	1042.0	17.6			G1/1800
FVH	(80°-90°)	529.3	8.9			G4/750
BL	(0°-30°)	51.9	0.9	B0/110		
BM	(30°-60°)	268.9	4.5	B1/1000		
BH	(60°-80°)	284.7	4.8	B1/500		G1/500
BVH	(80°-90°)	154.4	2.6			G2/225
UL	(90°-100°)	635.6	10.7		U4/1000	
UH	(100°-180°)	1861.3	31.4		U5	

BUG Rating: B1-U5-G4
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1223928
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	*67.8*	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	*82.6*	83.0	82.6	82.6	83.4	82.6	81.7	78.6	75.2	70.8	68.7
5°	*115.6*	115.6	117.8	117.8	115.6	110.8	105.2	97.3	90.4	83.0	77.8
7.5°	*157.7*	158.6	156.9	152.5	149.9	140.4	134.7	124.7	116.0	106.0	101.2
10°	*201.6*	202.1	199.9	196.0	187.7	178.2	169.9	158.2	146.9	133.8	126.9
12.5°	*248.5*	247.7	243.8	235.1	230.3	219.4	208.6	196.4	181.2	165.1	156.9
15°	*293.3*	291.6	289.8	280.7	274.2	263.3	250.7	234.2	216.4	198.6	186.4
17.5°	*336.3*	332.4	329.8	325.5	315.5	305.9	289.8	270.3	251.2	227.7	215.1
20°	*382.4*	383.3	378.9	372.8	362.0	348.1	332.4	311.6	287.7	259.8	244.6
22.5°	*434.1*	434.1	431.5	423.7	412.4	394.6	376.3	354.6	325.0	295.9	277.2
25°	*491.5*	488.4	484.9	474.9	465.4	446.3	424.5	401.1	370.2	335.0	314.2
27.5°	*548.4*	547.1	543.6	532.7	520.6	500.6	478.8	448.4	415.0	373.7	352.0
30°	*608.8*	607.5	604.0	593.6	575.7	556.2	530.1	497.5	461.0	414.5	390.6
32.5°	*667.0*	667.0	662.7	651.8	633.1	609.6	581.8	545.3	504.9	457.1	428.4
35°	*731.7*	731.3	723.5	710.5	687.9	667.4	636.1	597.9	552.3	497.5	467.1
37.5°	*791.3*	789.1	781.3	767.4	746.5	720.0	684.8	642.7	595.7	537.5	503.2
40°	*849.9*	847.3	840.4	824.7	799.5	769.5	733.5	688.3	635.3	574.9	539.2
42.5°	*902.9*	902.1	892.1	873.4	848.2	814.3	775.6	727.8	674.8	609.6	571.8
45°	*951.2*	951.2	941.2	920.8	892.1	857.8	815.2	766.1	709.6	641.4	601.4
47.5°	*996.8*	996.8	987.2	963.8	932.1	894.3	850.8	800.0	740.0	670.0	627.5
50°	*1038.1*	1036.3	1025.5	999.4	967.3	927.7	882.1	828.6	768.2	695.7	652.7
52.5°	*1073.7*	1071.5	1058.9	1034.6	998.5	956.4	908.6	854.3	791.3	717.8	674.0
55°	*1103.7*	1102.4	1090.2	1062.4	1024.6	982.5	931.6	875.1	813.0	736.5	692.2
57.5°	*1129.8*	1127.6	1113.3	1085.0	1047.2	1001.2	949.9	893.8	829.5	753.5	707.4
60°	*1149.3*	1147.2	1132.4	1104.1	1065.9	1017.2	966.0	909.0	843.9	766.9	720.0
62.5°	*1165.4*	1162.8	1148.5	1118.5	1078.5	1030.7	978.1	920.3	855.1	777.8	730.9
65°	*1175.4*	1173.2	1159.3	1129.3	1088.1	1039.8	987.2	929.0	864.3	786.1	739.1
67.5°	*1181.9*	1180.2	1165.8	1136.7	1095.4	1046.3	992.9	934.7	870.4	792.1	745.2
70°	*1185.0*	*1183.2*	*1168.4*	*1138.9*	*1098.1*	*1048.9*	*995.5*	*937.3*	*873.4*	*796.5*	*749.1*
71°	*1185.0*	1183.2	1168.9	1139.3	1098.5	1049.4	995.9	937.7	873.8	796.9	749.6
72.5°	*1183.7*	1182.3	1168.0	1138.0	1097.2	1048.5	994.6	937.3	873.8	797.4	750.4
75°	*1178.9*	1176.3	1162.4	1133.2	1092.8	1044.2	990.7	933.4	871.2	796.1	749.6
77.5°	*1170.2*	1168.0	1153.7	1125.4	1085.0	1035.9	982.9	926.8	866.0	791.7	746.1
80°	*1157.6*	1155.4	1141.5	1112.4	1072.4	1025.0	972.0	916.9	856.9	784.8	740.0
82.5°	*1141.5*	1139.8	1126.3	1097.2	1057.6	1010.7	957.7	903.8	846.9	775.2	731.3
85°	*1122.4*	1120.2	1105.4	1076.8	1039.0	992.0	940.3	888.2	832.6	763.5	720.9
87.5°	*1099.4*	1098.1	1083.3	1055.9	1018.1	971.6	922.1	871.2	816.5	750.4	709.1
90°	*1074.2*	1073.7	1058.1	1030.7	993.3	949.4	900.3	850.8	797.8	734.8	694.8
92.5°	*1048.9*	1048.9	1033.3	1005.1	968.1	924.7	878.2	830.4	780.0	719.1	680.9
95°	*1021.1*	1018.1	1003.3	978.1	941.2	899.5	854.7	807.8	759.1	701.3	665.3
97.5°	*988.5*	987.7	973.3	946.4	912.5	872.5	829.1	785.6	738.7	683.1	648.7
100°	*956.8*	955.1	941.6	916.9	882.1	843.9	803.0	761.3	717.0	664.4	631.4
102.5°	*925.5*	921.2	907.3	882.1	851.7	814.3	776.1	737.8	694.4	644.4	613.6
105°	*887.7*	887.3	873.0	849.1	818.2	785.2	749.1	711.8	672.2	624.0	595.3
107.5°	*850.8*	850.8	837.3	813.9	784.8	753.0	720.9	685.7	649.2	602.7	576.6

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

Scaled Data Report

REPORT NUMBER: P1223928
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*813.0*	812.6	800.4	779.5	751.7	721.3	691.8	659.6	623.1	582.3	556.6
112.5°	*775.6*	774.8	763.0	741.7	716.1	691.3	661.8	632.2	598.8	561.0	536.6
115°	*737.8*	737.0	724.4	705.7	682.2	656.6	631.8	603.6	574.4	536.6	515.3
117.5°	*698.7*	697.9	687.4	669.2	647.0	626.6	601.8	577.5	547.9	513.6	492.3
120°	*658.7*	659.2	648.7	632.2	611.8	592.7	571.0	548.8	521.4	488.8	468.4
122.5°	*620.9*	617.9	610.9	596.2	577.9	560.1	541.9	519.3	493.6	462.8	445.0
125°	*580.5*	579.7	572.7	557.9	542.3	528.4	511.4	491.0	467.6	436.3	420.2
127.5°	*541.4*	542.7	534.9	524.0	508.8	497.1	479.7	461.9	439.3	411.1	395.9
130°	*504.9*	504.1	499.7	488.4	475.8	463.6	450.6	434.5	413.2	385.0	371.1
132.5°	*471.0*	467.1	463.2	453.6	443.2	433.2	421.9	405.8	384.1	359.4	347.2
135°	*434.1*	434.1	428.0	419.8	412.4	402.8	391.5	376.7	358.1	336.3	322.4
137.5°	*400.2*	398.5	394.6	388.0	381.1	374.1	364.6	349.8	333.3	312.4	300.3
140°	*368.0*	366.7	363.3	357.6	352.0	345.4	336.8	324.2	308.9	289.0	278.5
142.5°	*334.6*	335.5	332.4	328.5	322.0	317.6	309.8	298.5	285.0	267.7	257.7
145°	*304.6*	305.0	303.7	299.8	295.0	290.7	282.4	274.2	261.2	245.5	238.1
147.5°	*279.8*	278.1	275.5	273.3	269.0	265.5	259.0	251.2	239.0	225.5	218.6
150°	*252.0*	253.3	250.7	248.1	245.5	240.7	235.9	229.4	218.1	207.3	199.9
152.5°	*228.6*	229.4	227.3	226.0	223.3	219.4	214.7	208.6	199.9	190.3	183.4
155°	*207.7*	207.7	207.7	206.0	202.9	200.3	195.5	189.9	182.5	173.8	169.0
157.5°	*188.6*	189.0	189.0	186.8	184.7	182.5	178.6	173.8	167.3	159.9	156.4
160°	*173.4*	172.5	172.1	170.3	168.6	166.9	163.4	159.5	153.8	147.7	144.7
162.5°	*158.2*	158.2	157.3	156.0	154.7	152.1	149.9	146.0	142.1	137.7	134.3
165°	*146.4*	146.0	146.0	144.3	143.0	140.8	138.6	136.0	132.5	128.6	126.0
167.5°	*136.4*	135.6	135.1	134.3	132.5	131.2	129.1	126.9	124.3	121.7	119.5
170°	*126.9*	127.3	126.4	125.6	124.7	123.4	121.7	119.9	117.8	115.1	114.3
172.5°	*120.4*	119.9	119.5	118.6	117.8	116.5	115.6	113.8	112.5	110.8	109.9
175°	*114.3*	114.3	113.8	113.0	112.1	111.2	110.4	109.5	108.6	107.3	106.9
177.5°	*109.5*	109.5	109.5	108.6	108.2	107.8	106.9	106.5	106.0	105.2	105.2
180°	*104.7*	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7

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

Scaled Data Report

REPORT NUMBER: P1223928
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	66.5	60.8	56.1	51.7	48.2	45.2	43.5	40.4	38.2	36.9
5°	74.7	66.5	59.5	52.6	47.4	41.7	36.1	30.4	26.9	26.5
7.5°	94.7	85.6	75.2	66.0	55.6	46.9	39.5	33.9	31.7	31.3
10°	119.9	106.5	92.6	79.1	65.6	54.8	46.9	41.7	39.1	38.7
12.5°	147.7	129.5	111.7	94.3	78.2	66.0	56.5	50.4	47.4	47.4
15°	176.4	153.8	131.2	109.9	91.3	76.0	64.3	56.5	53.0	52.6
17.5°	201.6	176.0	149.0	123.8	101.2	82.1	68.2	58.7	54.3	53.9
20°	230.3	197.7	166.9	135.6	109.1	86.9	70.4	59.5	53.9	53.4
22.5°	260.7	223.8	185.5	149.0	117.3	91.7	72.6	60.4	54.3	53.4
25°	295.0	250.7	204.7	162.5	125.6	96.0	74.7	61.3	54.8	53.9
27.5°	327.6	278.5	225.1	175.1	133.0	99.9	76.5	62.1	55.2	54.3
30°	362.4	305.9	245.1	188.6	140.8	103.9	78.2	62.6	55.2	54.3
32.5°	397.6	332.4	265.9	200.8	147.3	106.5	79.1	63.0	55.6	54.8
35°	435.0	361.1	285.5	213.4	153.4	109.1	80.0	63.4	55.6	54.8
37.5°	469.3	388.5	304.6	224.2	158.6	111.2	80.8	63.4	56.1	55.2
40°	500.1	413.2	321.6	233.8	162.9	112.5	81.3	63.9	56.5	55.6
42.5°	530.6	437.6	336.8	241.6	166.4	113.4	81.7	64.3	56.9	56.1
45°	557.5	458.0	350.7	249.0	169.0	114.3	82.1	64.7	57.4	56.5
47.5°	581.4	477.1	363.7	255.1	170.8	114.7	82.6	65.2	58.2	57.4
50°	604.4	495.4	373.7	259.8	172.5	115.1	82.6	66.0	59.5	58.7
52.5°	624.0	510.1	382.8	263.8	173.4	115.6	83.4	66.9	60.4	60.0
55°	640.9	523.2	391.1	266.8	174.2	115.6	84.3	68.2	62.1	61.3
57.5°	654.8	533.6	396.7	268.5	174.2	116.0	84.7	70.0	63.9	63.0
60°	667.0	542.7	401.9	270.7	174.7	116.5	86.0	71.7	66.0	65.6
62.5°	677.0	549.7	405.8	272.0	175.1	117.8	87.8	73.9	68.2	67.8
65°	684.8	555.8	408.9	272.9	175.5	118.6	89.5	76.0	71.3	70.8
67.5°	690.0	560.1	411.1	273.3	176.0	119.9	91.7	79.1	74.3	73.4
70°	*693.9*	*562.7*	*412.4*	*273.8*	*176.9*	*121.2*	*94.3*	*81.7*	*77.3*	*76.9*
71°	694.8	563.1	412.8	273.8	177.3	122.1	95.2	83.0	78.6	78.2
72.5°	695.2	563.6	412.8	273.8	177.7	123.4	96.9	85.2	80.8	80.4
75°	694.8	563.1	412.4	273.8	178.6	125.6	99.9	88.2	84.3	83.9
77.5°	691.8	561.4	411.1	273.8	179.9	128.2	103.4	92.6	88.2	87.8
80°	686.6	557.9	408.9	273.3	181.2	131.2	106.9	96.5	92.1	91.7
82.5°	679.6	552.7	405.8	273.3	182.9	133.8	110.4	99.9	96.5	96.0
85°	670.5	546.6	402.8	272.9	185.1	137.3	114.7	104.7	101.2	100.4
87.5°	659.6	539.2	399.3	272.9	187.3	141.2	119.1	109.1	105.6	104.7
90°	647.4	531.0	395.9	272.9	189.9	145.1	123.8	113.8	109.9	109.5
92.5°	635.3	523.2	392.4	273.3	193.4	149.5	128.6	119.1	115.1	115.1
95°	621.4	513.6	388.5	274.2	196.8	154.3	134.3	124.3	120.4	119.9
97.5°	607.5	504.9	385.4	275.5	200.8	159.9	139.5	129.9	126.0	125.1
100°	591.8	495.8	382.4	277.2	205.5	165.1	145.1	135.6	131.7	131.2
102.5°	576.6	485.8	378.9	279.4	210.3	171.2	151.2	141.2	137.3	136.9
105°	560.1	475.4	375.0	281.1	215.1	176.9	156.9	146.4	142.1	142.1
107.5°	544.0	464.5	371.1	283.3	219.9	182.5	162.1	151.6	146.9	146.4

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

Scaled Data Report

REPORT NUMBER: P1223928
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	525.8	452.8	366.3	284.6	224.2	187.3	166.9	155.6	150.8	150.3
112.5°	509.3	440.2	361.1	285.0	228.1	191.6	170.8	159.0	154.3	153.4
115°	488.4	427.1	354.1	284.2	230.3	195.1	173.4	161.2	156.0	155.1
117.5°	468.4	412.4	346.8	282.0	231.6	196.8	175.1	162.5	156.9	156.0
120°	448.0	395.9	336.3	278.1	230.3	196.8	175.1	161.6	156.0	155.6
122.5°	425.0	378.5	325.5	272.4	228.1	195.1	173.4	160.3	154.3	153.8
125°	401.1	359.8	312.4	264.6	223.8	192.5	170.8	157.7	151.6	151.2
127.5°	378.0	340.7	299.0	255.5	217.7	188.2	167.3	153.8	147.7	146.9
130°	355.4	320.7	283.7	244.6	210.3	182.5	162.5	149.9	143.8	143.0
132.5°	332.0	301.6	268.5	234.2	202.5	176.4	157.3	145.1	139.5	138.6
135°	309.8	281.6	252.0	221.6	193.4	169.5	151.6	140.4	134.7	134.3
137.5°	288.5	262.9	236.8	209.4	184.2	162.5	146.0	135.6	130.4	129.5
140°	266.8	244.6	221.2	197.7	174.2	155.1	140.4	130.4	125.6	124.7
142.5°	248.1	227.3	206.4	184.7	164.7	147.3	134.3	125.1	121.2	120.8
145°	228.6	210.3	191.6	172.9	155.6	140.4	128.6	120.8	116.9	116.5
147.5°	211.2	193.8	177.7	161.6	146.4	133.0	123.0	116.5	113.4	113.0
150°	193.4	179.5	165.6	150.8	137.7	126.4	118.2	112.5	109.5	109.1
152.5°	177.7	166.0	153.4	142.1	129.9	120.8	113.8	108.6	106.5	106.0
155°	164.3	154.3	143.8	133.4	123.8	116.5	110.4	106.0	104.3	104.3
157.5°	152.5	143.8	135.1	126.4	118.6	112.1	107.3	104.3	102.5	102.1
160°	141.2	134.3	126.4	119.9	113.8	109.1	105.2	102.5	101.2	100.8
162.5°	132.1	126.0	120.8	115.1	110.4	106.5	103.4	101.2	100.4	100.4
165°	124.3	119.9	115.1	111.2	107.3	104.3	102.1	100.8	99.9	99.9
167.5°	118.2	114.3	111.2	107.8	105.2	103.0	101.2	100.4	99.9	99.5
170°	113.0	110.4	107.8	105.6	103.4	102.1	100.8	100.4	99.9	99.9
172.5°	109.1	107.3	105.6	103.9	102.5	101.2	100.8	100.4	100.4	100.4
175°	106.0	105.2	103.9	103.0	102.1	101.7	101.2	101.2	101.2	101.2
177.5°	104.7	103.9	103.4	103.0	102.5	102.5	102.5	103.0	103.0	103.0
180°	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7

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: SP1-2501-332-2

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

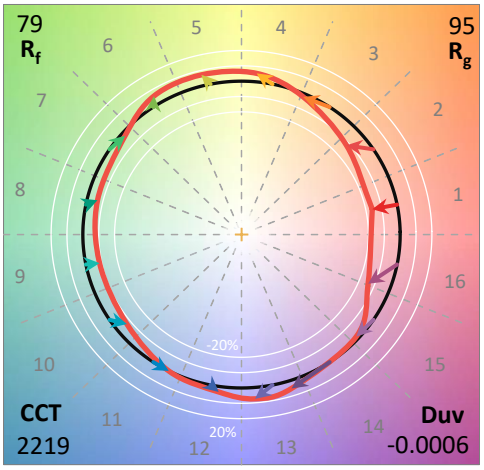
Test Information

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

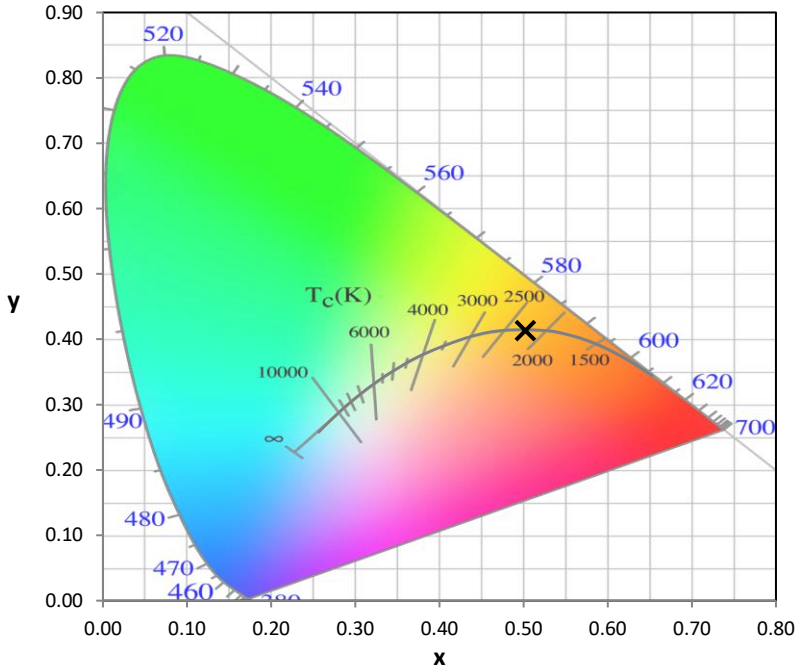
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

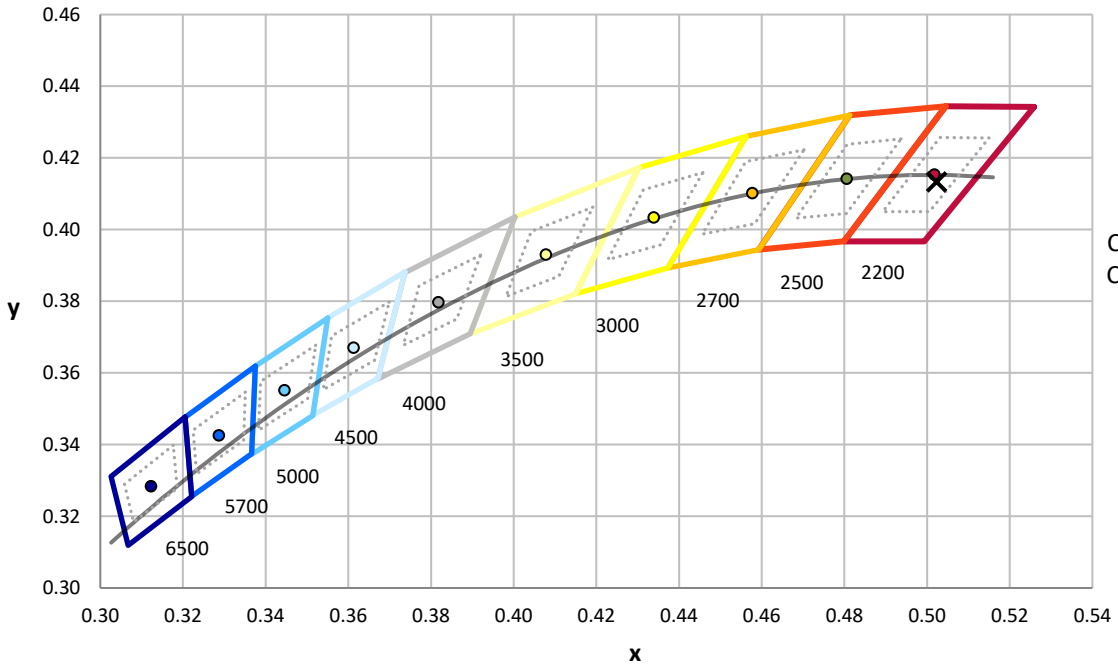
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

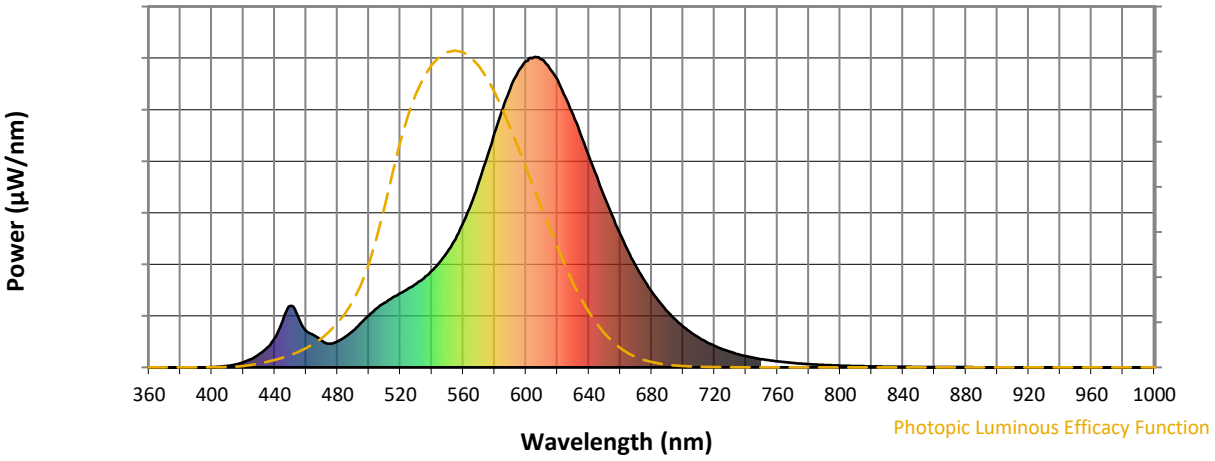


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

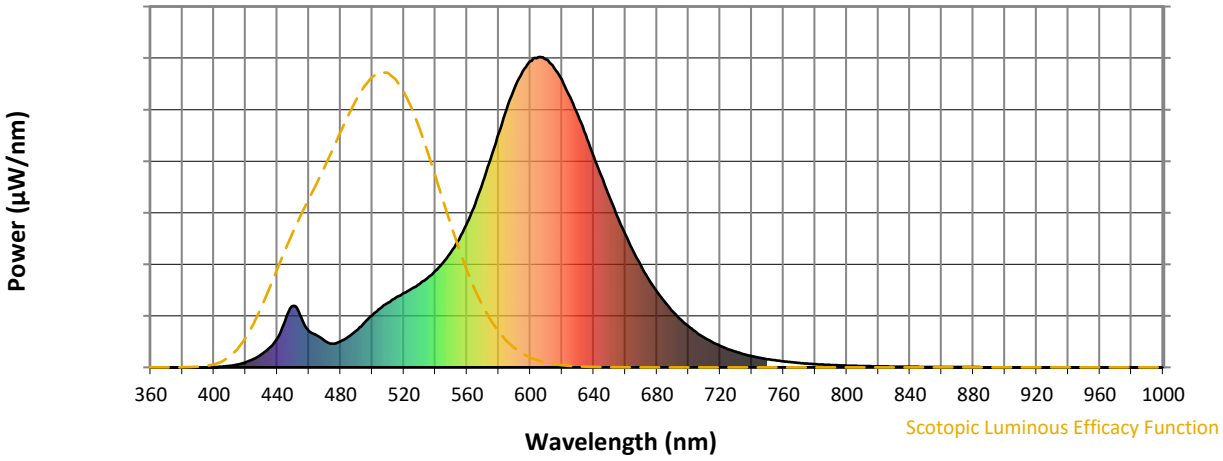


Photopic Lumens: NR

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

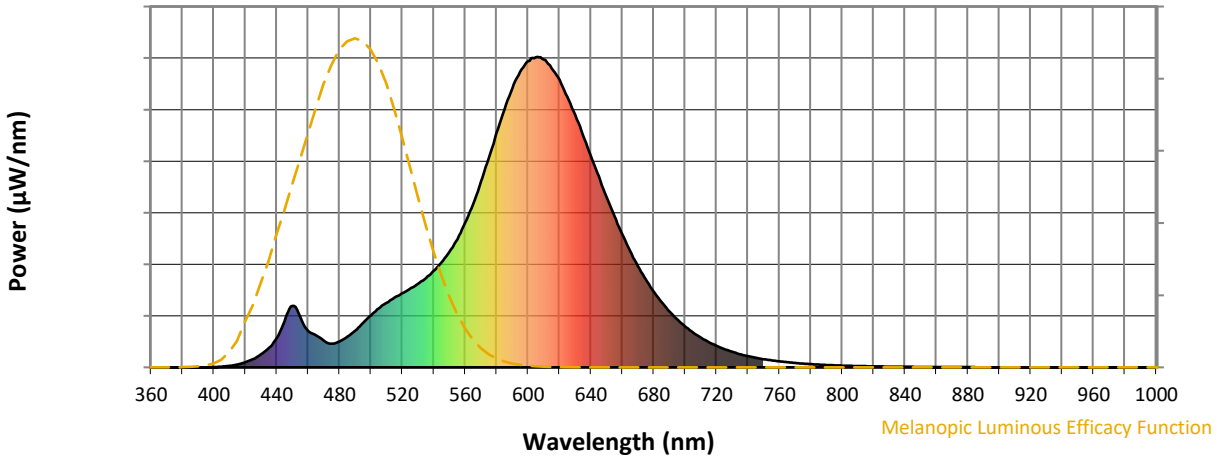


Scotopic Lumens: NR **S/P: 0.94**

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			

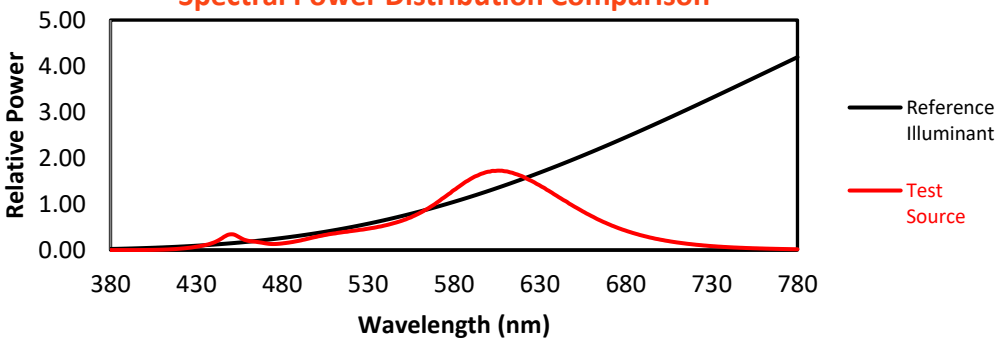
REPORT NUMBER: SP1-2501-332-2

TM-30-18

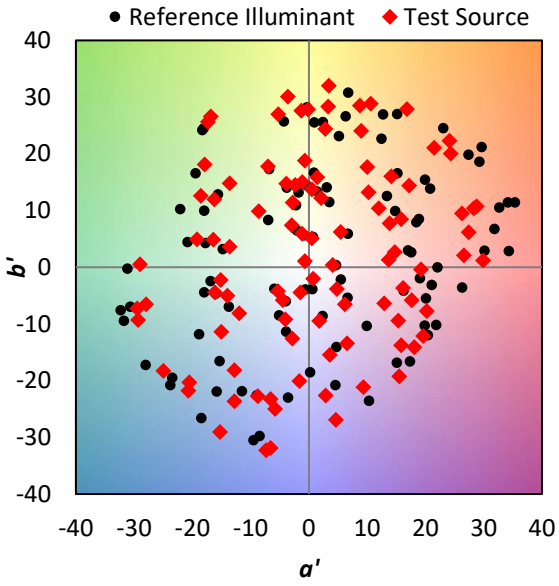
Summary

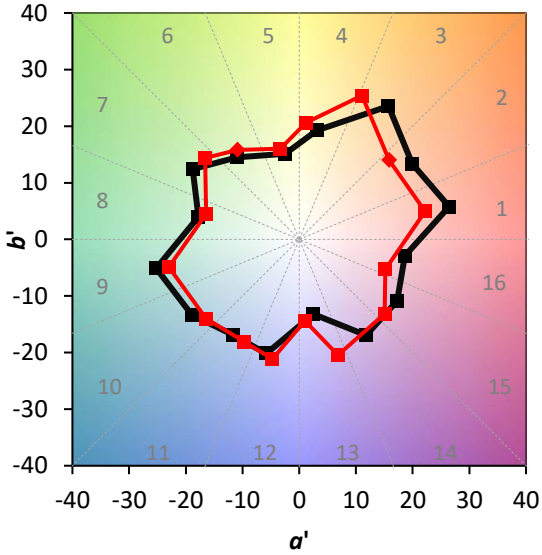
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

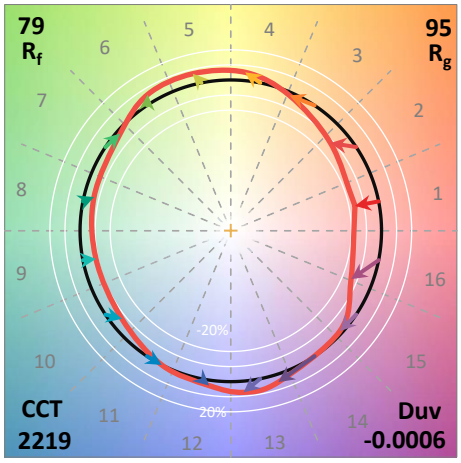
Spectral Power Distribution Comparison

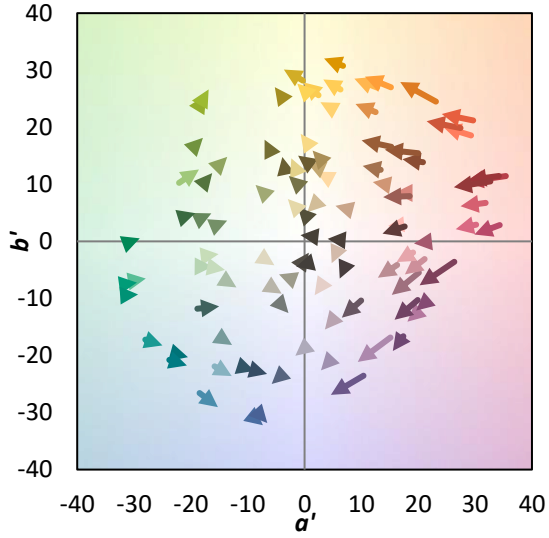


Color Vector Graphics







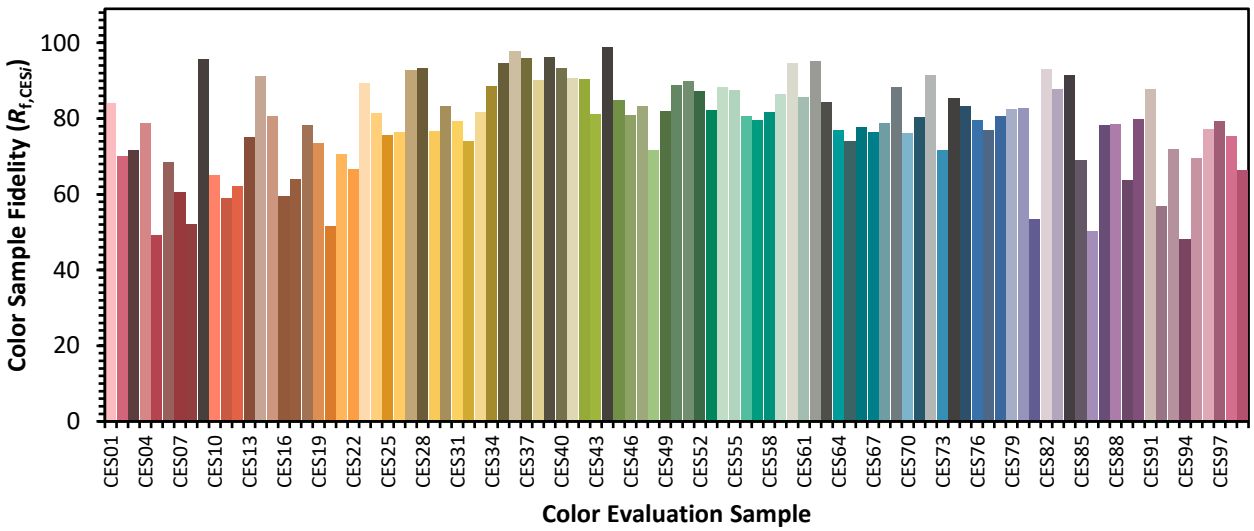


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

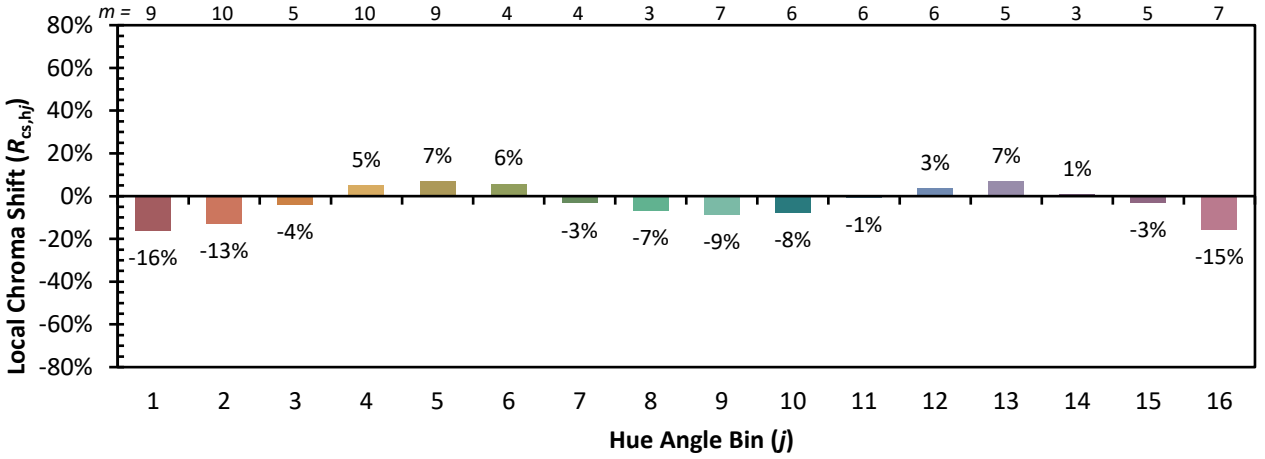
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 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	

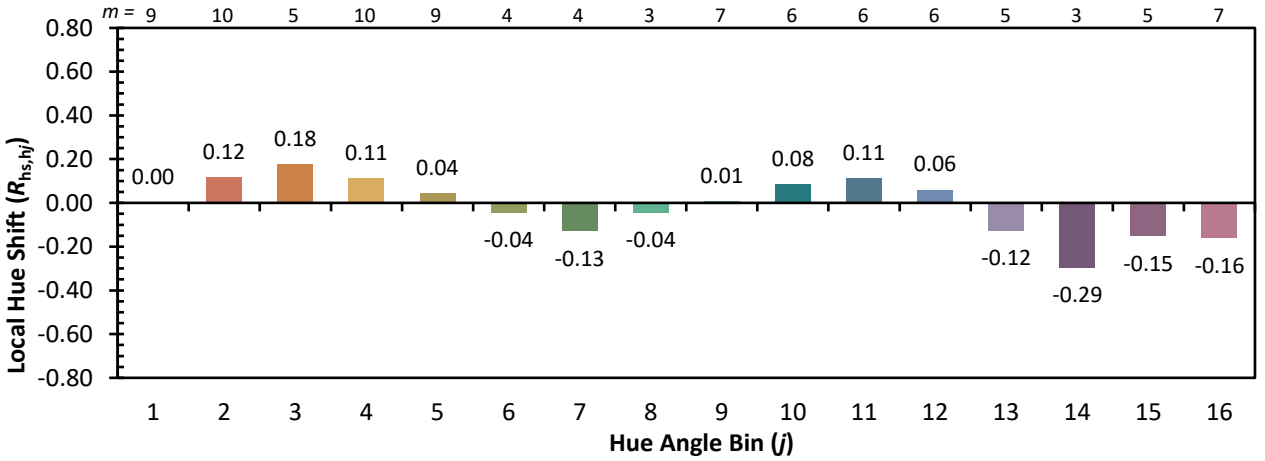


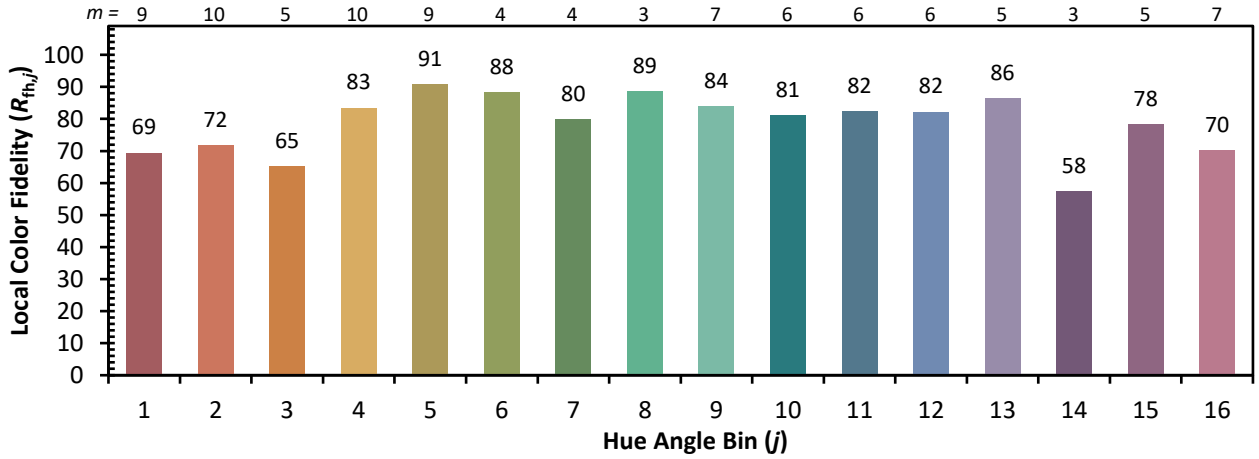
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



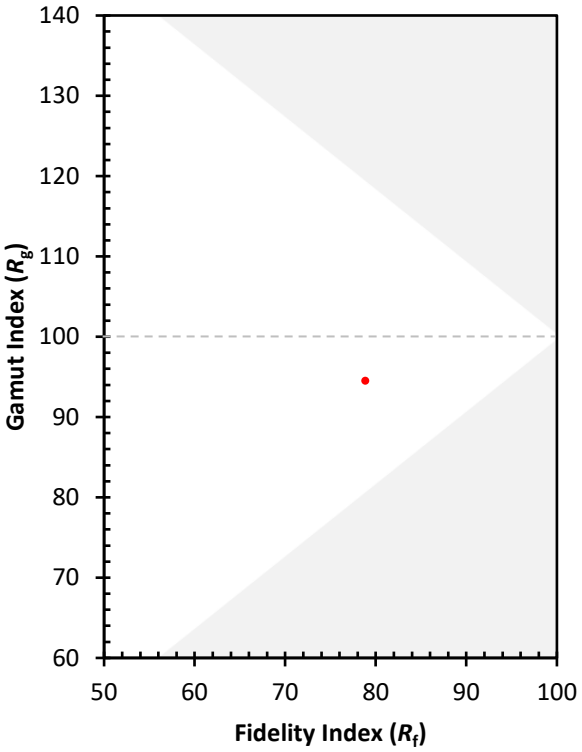


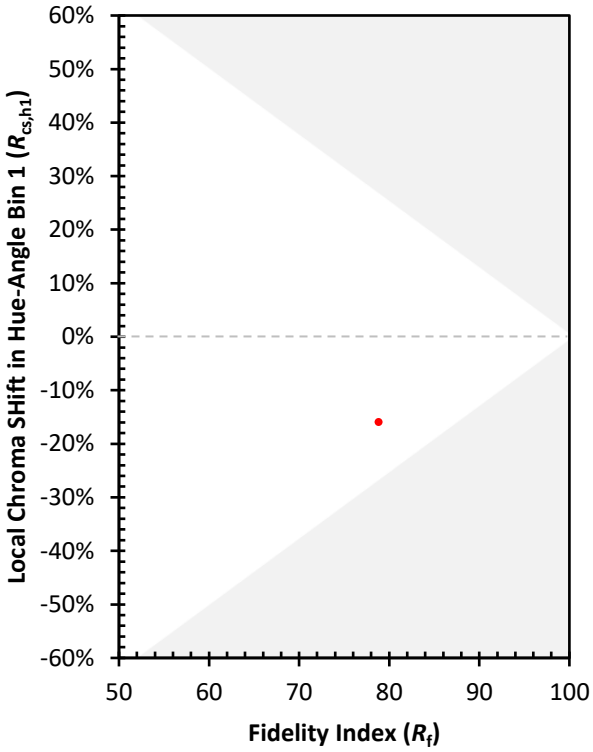


REPORT NUMBER: SP1-2501-332-2

TM-30-18

Measure Comparisons





(END OF REPORT)