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: P1223883

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

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:	P1223883
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
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6440.9 lumens
Efficiency:	N/A
Efficacy:	127.3 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

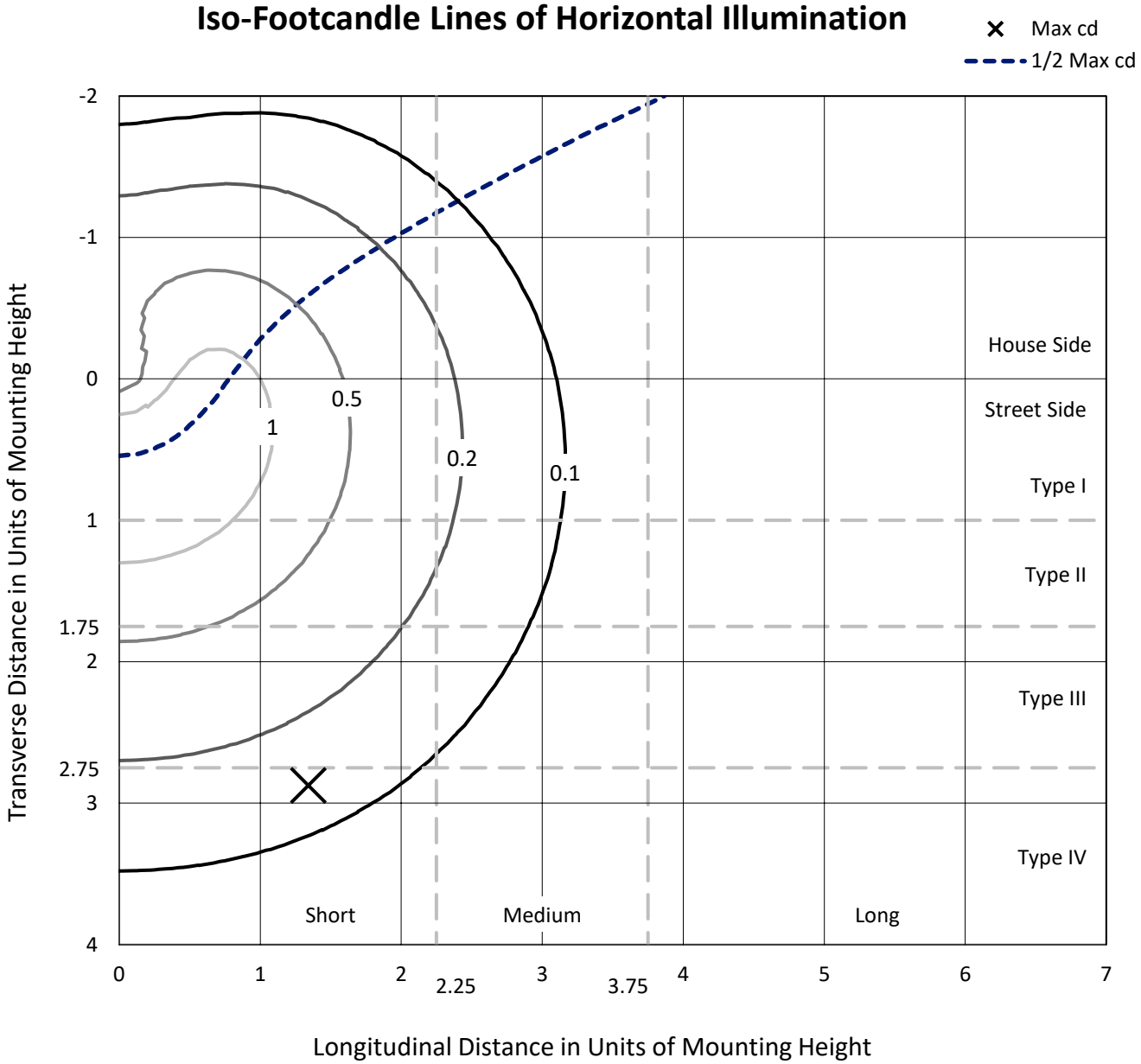


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Iso-Footcandle Lines of Horizontal Illumination



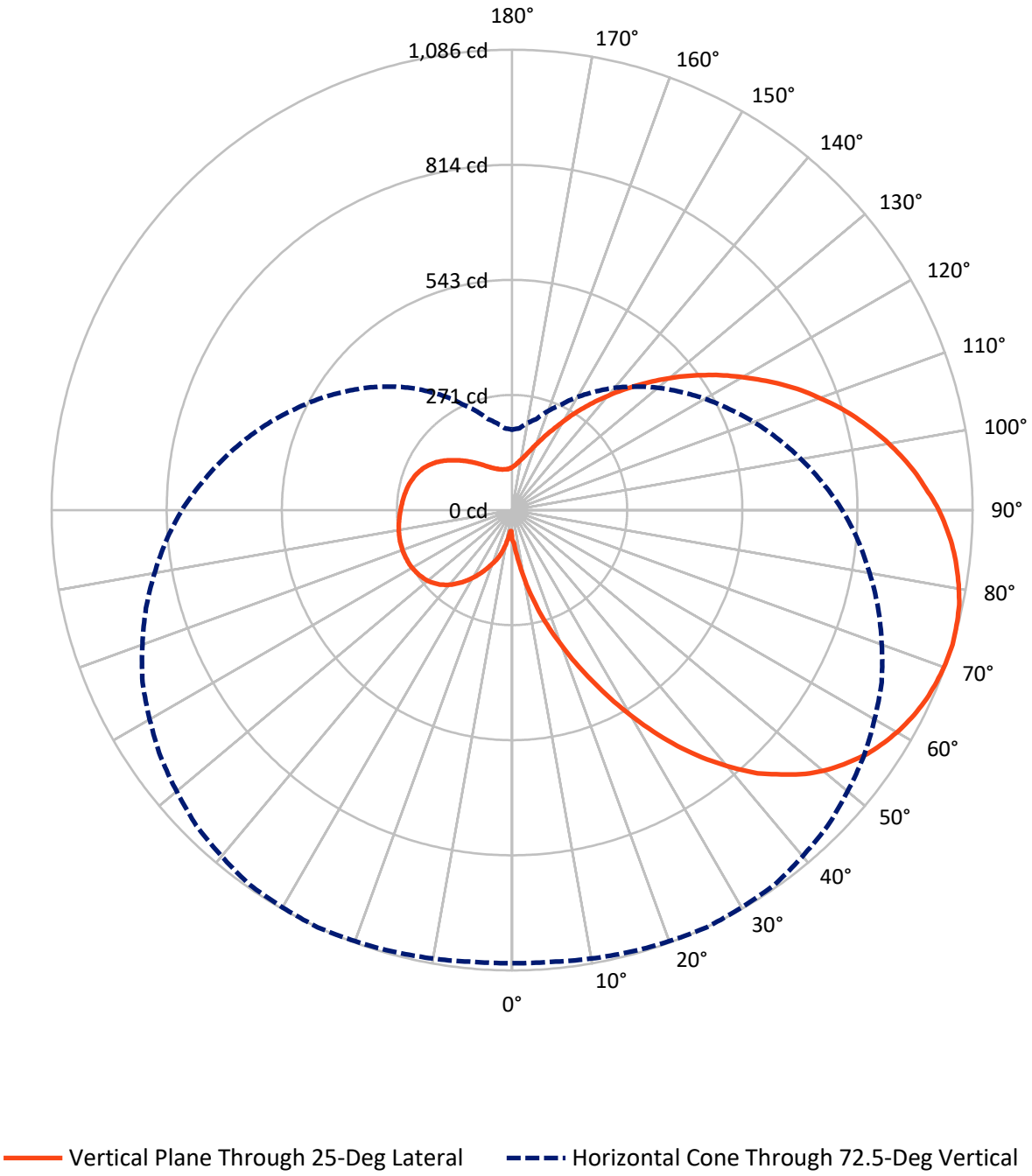
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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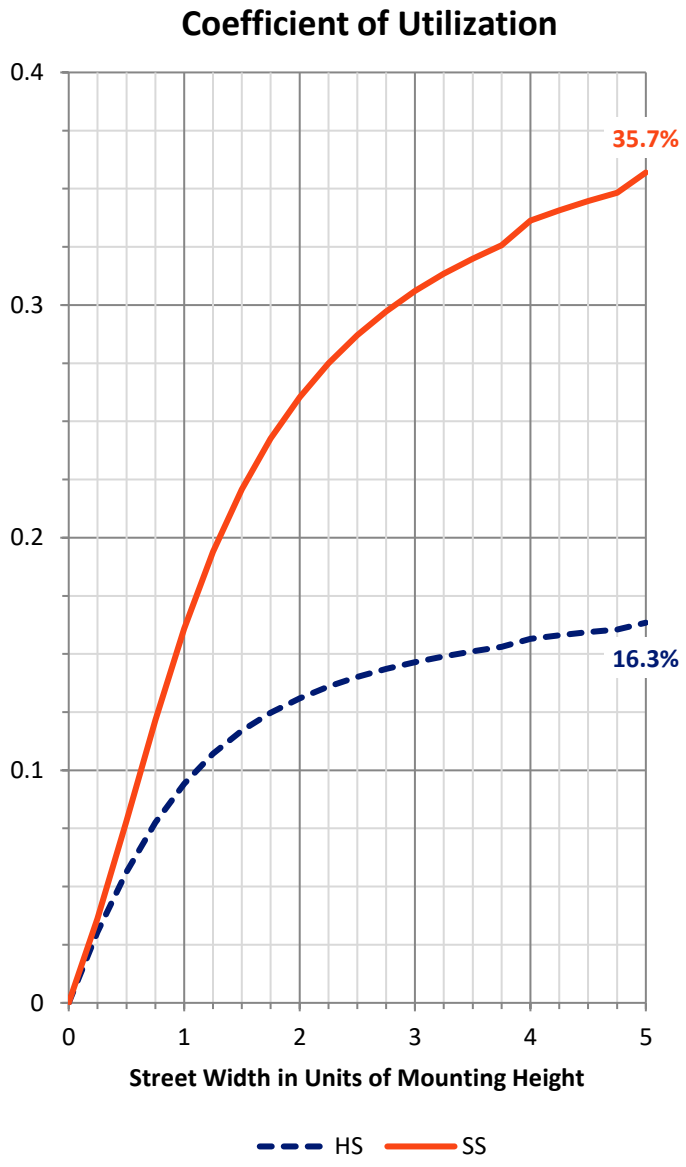
REPORT NUMBER: P1223883
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1160.5	888.0	2048.5
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	2624.6	1767.8	4392.4
	% Fixture	40.7	27.4	68.2
Total	Lumens	3785.1	2655.8	6440.9
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.1	0.1
10°-20°	54.7	0.8
20°-30°	149.0	2.3
30°-40°	295.2	4.6
40°-50°	460.8	7.2
50°-60°	604.0	9.4
60°-70°	704.8	10.9
70°-80°	756.3	11.7
80°-90°	751.3	11.7
90°-100°	697.0	10.8
100°-110°	606.9	9.4
110°-120°	491.1	7.6
120°-130°	361.5	5.6
130°-140°	239.1	3.7
140°-150°	141.4	2.2
150°-160°	74.4	1.2
160°-170°	34.4	0.5
170°-180°	9.9	0.2
0°-90°	3785.1	58.8
0°-180°	6440.9	100.0



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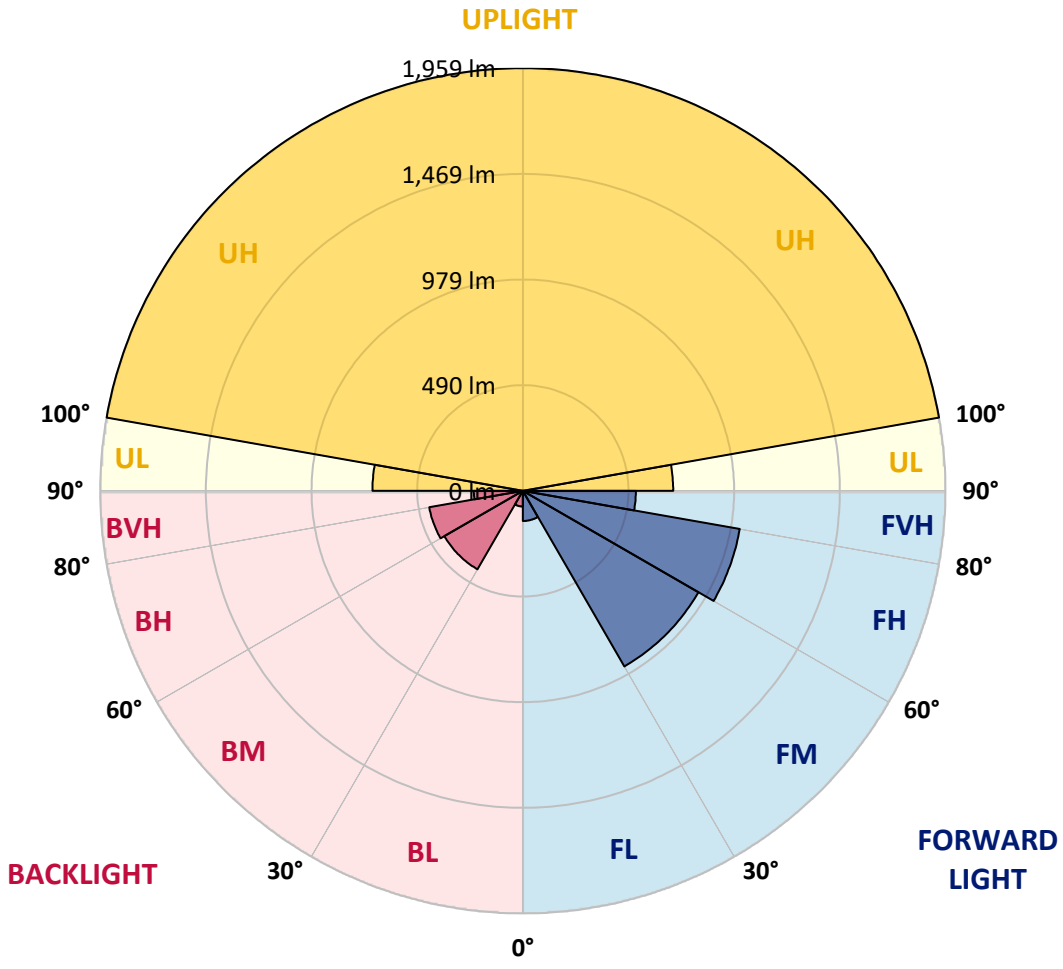
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	139.9	2.2			
FM	(30°-60°)	940.0	14.6			
FH	(60°-80°)	1020.9	15.9			G1/1800
FVH	(80°-90°)	523.8	8.1			G4/750
BL	(0°-30°)	72.9	1.1	B0/110		
BM	(30°-60°)	420.0	6.5	B1/1000		
BH	(60°-80°)	440.2	6.8	B1/500		G1/500
BVH	(80°-90°)	227.5	3.5			G3/500
UL	(90°-100°)	697.0	10.8		U4/1000	
UH	(100°-180°)	1958.8	30.4		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	70.0	70.0	70.0	*70.0*	70.0	70.0	70.0	70.0	70.0	70.0	70.0
2.5°	75.2	75.2	76.5	*76.9*	77.4	77.4	77.8	77.4	75.6	73.4	72.1
5°	102.6	101.7	101.3	*101.7*	101.7	100.0	97.3	92.6	89.1	83.4	81.3
7.5°	137.3	136.5	135.2	*133.8*	133.8	129.5	125.2	121.2	115.2	107.3	104.7
10°	177.7	176.0	174.3	*171.7*	168.6	164.7	159.1	152.5	144.3	136.0	130.8
12.5°	217.3	216.9	216.0	*212.1*	206.4	202.9	196.9	187.7	177.3	166.0	161.7
15°	262.9	260.7	259.4	*256.4*	252.9	246.0	236.0	227.3	215.1	199.5	194.3
17.5°	305.1	304.2	301.6	*300.7*	295.1	287.7	276.4	263.4	248.6	234.2	226.4
20°	351.1	353.3	350.3	*347.7*	337.7	330.3	319.8	307.2	289.4	269.0	260.7
22.5°	402.4	404.6	399.8	*399.8*	391.6	379.4	364.6	349.8	327.7	306.4	295.9
25°	462.0	462.8	455.4	*452.4*	446.3	434.1	416.3	398.9	373.3	346.4	334.2
27.5°	518.4	520.2	515.8	*511.9*	501.9	490.2	470.6	450.2	421.1	388.9	375.5
30°	582.3	578.9	577.1	*570.2*	559.7	547.6	525.8	503.2	469.8	432.0	415.5
32.5°	638.8	636.2	637.5	*631.9*	616.7	603.2	582.8	555.4	516.3	476.7	458.0
35°	697.1	698.4	696.6	*690.5*	681.4	663.6	635.8	604.9	565.8	519.3	499.3
37.5°	756.6	753.6	751.4	*746.2*	737.0	717.0	689.7	654.9	609.7	560.6	538.4
40°	807.9	810.0	807.4	*798.7*	790.5	768.3	738.3	698.8	652.3	599.7	574.1
42.5°	856.5	855.7	853.5	*848.7*	837.4	814.0	784.4	744.0	691.4	633.2	606.2
45°	895.7	896.5	896.5	*889.6*	879.1	857.8	824.0	782.7	726.6	665.3	637.1
47.5°	933.0	934.3	933.5	*930.4*	919.1	893.9	859.6	817.0	757.5	694.4	662.7
50°	966.1	966.1	965.6	*963.0*	952.2	927.8	892.6	847.0	785.3	718.8	687.5
52.5°	993.4	993.0	993.4	*990.4*	979.1	956.9	920.4	871.8	810.0	739.2	708.8
55°	1015.2	1013.9	1016.9	*1015.6*	1005.6	980.8	942.2	894.8	830.9	758.8	726.6
57.5°	1032.5	1032.1	1036.0	*1034.7*	1024.7	1000.0	961.7	913.5	848.3	774.8	739.6
60°	1046.9	1046.0	1051.2	*1051.2*	1041.2	1016.5	978.7	927.8	862.2	787.4	751.8
62.5°	1056.9	1057.3	1062.1	*1063.8*	1055.1	1029.9	990.4	940.4	873.5	797.4	761.4
65°	1063.8	1064.7	1070.4	*1073.8*	1065.1	1040.4	999.5	949.5	882.6	805.7	768.8
67.5°	1068.2	1068.6	1076.4	*1079.9*	1073.0	1046.9	1007.3	956.1	888.7	810.9	774.4
70°	1069.9	1070.4	1079.0	*1084.3*	1077.3	1050.8	1010.8	959.5	892.6	814.4	777.5
72.5°	*1068.6*	*1069.5*	*1078.6*	*1085.6*	*1078.6*	*1052.5*	*1012.1*	*961.3*	*893.5*	*818.3*	*778.3*
75°	1064.3	1065.1	1075.6	*1082.5*	1077.3	1050.4	1009.9	959.5	892.2	814.8	777.0
77.5°	1056.9	1058.2	1069.1	*1077.7*	1071.7	1046.0	1005.6	954.8	887.4	810.5	772.2
80°	1046.0	1046.5	1058.6	*1067.3*	1063.0	1037.3	996.9	946.5	879.6	803.1	765.7
82.5°	1032.1	1033.9	1045.6	*1055.1*	1051.2	1024.7	985.6	936.1	869.6	794.0	756.2
85°	1017.3	1019.1	1029.9	*1040.4*	1035.6	1010.8	971.7	922.6	856.1	781.4	745.3
87.5°	999.5	1000.8	1011.3	*1022.1*	1017.8	993.0	955.2	907.0	842.2	769.6	732.7
90°	980.0	981.3	991.3	*1001.7*	996.0	972.6	935.6	888.3	825.3	754.0	718.4
92.5°	959.1	959.5	970.8	*976.5*	973.4	952.6	916.1	870.5	807.4	737.9	704.4
95°	935.6	935.6	946.5	*952.6*	947.4	927.8	893.5	847.9	786.6	721.4	687.1
97.5°	910.0	910.9	919.1	*925.2*	923.5	903.0	870.5	827.0	768.3	703.6	671.0
100°	883.5	883.5	890.9	*896.1*	892.2	875.7	844.8	804.8	745.3	684.5	652.7
102.5°	855.7	855.2	861.3	*865.2*	862.6	847.4	818.7	779.2	723.6	664.5	634.5
105°	824.8	823.5	829.6	*833.9*	831.3	817.9	793.5	755.3	701.4	644.9	616.2
107.5°	791.8	794.0	797.4	*800.1*	797.9	786.1	763.1	729.2	678.4	624.5	596.7
110°	760.5	761.8	762.2	*765.3*	764.8	755.3	735.7	701.8	653.6	602.8	575.8

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REPORT NUMBER: P1223883
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	728.8	728.3	728.8	*731.0*	731.0	721.4	702.7	673.2	629.3	579.7	555.0
115°	694.4	692.7	693.1	*693.6*	695.3	687.9	671.9	644.0	601.0	557.1	532.8
117.5°	658.8	658.4	657.5	*656.2*	656.2	653.2	639.3	614.5	573.6	530.2	509.8
120°	624.9	623.2	621.0	*619.7*	620.6	617.1	605.8	581.0	545.0	505.8	485.4
122.5°	585.8	587.1	585.8	*584.1*	584.5	581.0	571.5	550.6	514.5	477.2	458.9
125°	552.3	551.9	550.2	*547.6*	547.6	546.3	535.8	517.6	485.4	449.8	432.8
127.5°	515.0	515.4	513.7	*512.4*	513.2	510.6	503.7	482.8	454.6	422.8	406.3
130°	479.8	479.3	478.9	*476.3*	478.5	473.7	467.6	450.2	423.3	396.3	381.1
132.5°	446.7	444.1	442.4	*442.0*	441.5	441.1	433.7	418.5	395.9	369.0	354.2
135°	413.7	411.5	409.4	*408.5*	409.4	407.2	400.7	388.1	367.2	341.1	329.8
137.5°	379.8	378.9	378.9	*376.8*	376.8	375.0	369.4	359.0	339.4	316.8	305.5
140°	349.4	347.7	346.8	*345.5*	346.8	345.1	339.0	329.0	312.5	292.9	282.0
142.5°	318.1	316.4	317.7	*316.4*	315.1	314.2	309.0	301.2	286.8	269.0	259.9
145°	289.0	289.0	288.1	*288.6*	287.7	286.8	281.6	274.2	262.0	245.5	239.0
147.5°	261.6	262.5	261.6	*262.5*	262.5	259.0	255.5	249.4	238.1	225.1	218.2
150°	236.0	237.3	236.4	*236.0*	236.4	234.7	229.9	226.4	216.4	205.1	198.2
152.5°	214.2	215.1	215.1	*214.2*	213.8	212.9	208.2	203.4	195.6	186.9	182.1
155°	193.8	193.8	194.3	*194.7*	193.4	190.8	189.0	185.1	178.2	170.4	165.6
157.5°	176.9	176.4	176.9	*176.4*	176.0	173.4	170.8	167.7	162.1	155.1	152.5
160°	160.8	160.8	161.2	*160.8*	159.1	157.8	155.6	153.0	148.2	143.4	139.9
162.5°	147.8	147.8	147.8	*147.3*	145.6	145.1	142.5	139.9	136.0	132.1	129.5
165°	136.5	136.5	136.0	*136.0*	135.2	133.8	131.7	129.5	126.0	123.0	121.2
167.5°	127.3	126.9	126.5	*126.0*	125.6	124.3	122.1	120.8	118.2	115.6	114.3
170°	119.5	119.5	119.1	*119.1*	118.2	116.9	115.6	113.9	112.1	109.5	108.6
172.5°	112.6	112.6	112.6	*112.6*	111.3	110.8	109.5	108.2	106.9	105.2	104.3
175°	107.3	107.3	107.3	*107.3*	106.5	105.6	105.2	103.9	103.0	101.7	101.3
177.5°	103.4	103.4	103.4	*103.4*	103.0	102.1	101.7	100.8	100.0	99.5	99.1
180°	100.0	100.0	100.0	*100.0*	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
2.5°	70.8	68.2	64.8	60.8	57.8	53.9	50.0	47.8	46.5	45.6
5°	79.1	73.4	68.2	62.6	58.2	54.3	50.0	46.5	44.8	44.3
7.5°	100.8	93.0	85.2	78.2	72.1	66.1	61.7	58.2	56.1	56.1
10°	126.9	116.0	106.9	97.8	89.5	82.1	76.1	72.6	70.0	69.1
12.5°	156.4	143.4	130.8	120.4	108.2	100.0	92.6	87.8	84.7	84.3
15°	187.3	173.8	157.8	143.4	129.9	116.9	108.2	101.3	98.6	98.6
17.5°	216.9	199.5	181.7	164.3	147.8	132.5	120.4	112.6	108.6	107.8
20°	248.6	227.7	204.7	184.3	163.8	146.0	131.7	121.7	116.5	116.0
22.5°	281.2	256.8	232.1	205.1	181.7	160.4	143.4	131.7	125.2	124.3
25°	318.5	289.0	259.4	229.9	201.6	176.4	156.4	142.1	134.7	133.8
27.5°	359.8	322.9	287.7	253.8	220.8	193.0	169.0	152.5	143.4	143.0
30°	397.6	356.8	316.8	277.7	241.6	208.2	181.7	162.5	152.5	151.2
32.5°	435.4	390.2	345.1	302.0	260.3	224.2	194.3	172.1	160.4	159.5
35°	474.6	423.3	374.2	324.6	281.2	240.3	206.0	181.7	169.0	167.3
37.5°	511.1	455.9	402.0	349.4	299.4	255.1	217.3	190.8	176.4	174.3
40°	544.5	485.0	427.2	370.7	316.8	269.0	228.2	198.6	182.5	180.8
42.5°	575.4	512.4	450.2	389.4	332.9	281.2	237.3	205.1	187.3	185.6
45°	604.5	538.0	471.5	406.8	346.8	292.5	246.0	211.2	192.1	189.5
47.5°	629.3	559.7	488.5	421.5	359.4	302.0	252.5	215.5	195.6	193.0
50°	651.4	578.0	504.5	435.9	370.3	310.7	258.6	219.0	197.3	194.7
52.5°	669.2	594.9	518.4	447.2	380.3	317.7	262.9	222.1	199.0	196.4
55°	686.6	608.8	530.6	457.2	387.6	324.2	266.4	223.8	199.9	196.9
57.5°	701.0	620.6	540.6	465.0	395.0	328.5	269.4	224.7	199.9	196.4
60°	711.4	629.7	548.4	471.5	399.8	332.4	271.6	225.1	199.5	196.0
62.5°	720.5	637.1	554.1	477.2	404.6	335.5	273.8	225.5	198.6	195.1
65°	727.5	643.2	558.9	480.6	407.6	338.1	274.2	225.1	197.3	193.8
67.5°	733.1	647.1	561.9	483.7	409.8	339.4	275.1	224.7	196.4	192.5
70°	735.3	648.8	563.6	485.0	411.1	340.3	275.1	223.8	194.7	190.8
72.5°	*734.9*	*648.8*	*564.1*	*485.4*	*411.5*	*340.7*	*274.7*	*222.5*	*193.4*	*189.5*
75°	733.6	647.5	563.2	485.0	411.1	340.3	274.2	221.6	192.1	188.6
77.5°	730.1	644.0	560.2	483.2	410.2	339.0	272.9	220.8	191.2	186.9
80°	724.0	638.8	555.8	479.3	407.2	337.7	271.6	219.0	189.5	186.0
82.5°	715.3	632.3	550.6	475.9	404.6	335.1	269.9	218.2	188.6	185.1
85°	705.3	624.0	543.7	470.6	400.7	332.4	267.7	216.4	187.7	184.3
87.5°	693.1	613.2	536.7	464.6	395.9	329.0	265.5	215.1	187.3	183.8
90°	680.5	603.2	528.0	458.9	392.0	325.5	263.4	214.2	186.9	183.8
92.5°	666.6	592.3	519.8	451.5	386.8	322.0	261.2	213.4	186.9	183.8
95°	652.7	581.0	511.5	445.0	381.6	318.5	259.0	212.9	187.7	184.7
97.5°	636.2	568.0	501.5	438.1	375.5	314.6	257.3	212.5	188.2	185.6
100°	620.6	555.0	491.1	430.2	369.8	310.3	254.7	212.1	189.0	186.0
102.5°	603.6	542.3	480.6	422.0	363.7	305.5	252.5	211.6	189.9	187.3
105°	586.7	527.1	469.3	412.4	356.4	300.7	249.9	211.2	190.3	187.7
107.5°	568.0	512.8	456.7	403.3	349.0	295.5	246.4	210.3	190.8	188.2
110°	548.9	495.8	443.7	392.9	340.3	289.0	242.9	208.2	190.3	188.2

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

Scaled Data Report

REPORT NUMBER: P1223883
CATALOG NUMBER: FFX-CLB-50-722-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	530.6	479.8	429.4	381.1	331.1	282.5	238.1	206.0	189.0	187.3
115°	508.0	461.5	414.1	368.5	320.7	274.2	232.9	202.9	187.3	185.1
117.5°	487.2	442.4	398.1	355.0	309.9	266.0	226.8	199.0	184.3	182.5
120°	463.7	422.0	380.7	339.8	297.7	256.4	219.5	194.3	180.3	179.0
122.5°	440.7	402.0	362.9	324.2	284.6	245.5	212.1	188.2	176.0	174.7
125°	416.3	380.7	344.2	307.7	270.3	234.2	203.4	181.2	170.4	169.0
127.5°	391.6	358.5	324.2	290.3	256.4	222.9	194.3	174.3	163.8	163.4
130°	365.5	335.9	304.6	273.3	242.1	211.2	184.7	166.9	157.3	156.4
132.5°	342.0	314.6	285.5	256.0	226.4	199.5	175.6	159.1	150.8	149.9
135°	319.0	291.6	266.4	240.3	212.9	187.7	166.4	151.7	144.3	143.4
137.5°	295.5	271.6	248.1	223.8	199.0	176.4	157.8	144.7	138.2	137.3
140°	272.0	252.1	230.8	207.7	186.4	166.0	149.1	138.2	132.1	131.2
142.5°	250.7	231.6	212.5	192.5	173.4	156.0	141.2	130.8	125.6	125.2
145°	229.9	213.4	196.0	178.2	161.7	147.3	133.8	125.2	120.8	120.4
147.5°	211.2	196.4	180.8	165.6	151.2	137.8	126.9	119.5	115.2	114.7
150°	192.5	179.5	166.4	153.4	141.2	129.9	120.4	114.3	111.3	110.4
152.5°	176.0	165.6	153.8	143.0	132.1	122.5	115.2	109.5	106.9	106.5
155°	161.2	152.5	143.0	133.4	124.7	116.9	110.4	106.0	103.9	103.9
157.5°	148.6	141.2	133.4	125.6	118.6	112.1	106.9	103.4	101.7	101.3
160°	137.3	130.8	124.7	119.1	112.6	107.8	103.9	100.8	99.5	99.1
162.5°	126.9	122.5	117.8	113.0	108.2	104.3	101.3	99.1	98.2	98.2
165°	119.5	115.6	111.7	108.2	104.7	102.1	99.5	98.2	97.3	96.9
167.5°	113.0	109.9	107.3	104.7	102.1	100.0	98.2	97.3	96.5	96.5
170°	107.8	105.6	103.9	102.1	100.4	98.6	97.8	96.9	96.5	96.5
172.5°	103.4	102.1	100.8	100.0	98.6	97.8	96.9	96.5	96.5	96.5
175°	100.8	100.0	99.1	98.6	98.2	97.8	97.3	96.9	96.9	96.9
177.5°	99.1	98.6	98.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2
180°	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

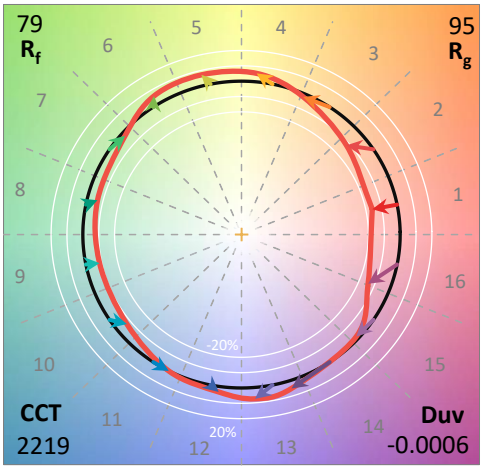
Test Information

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

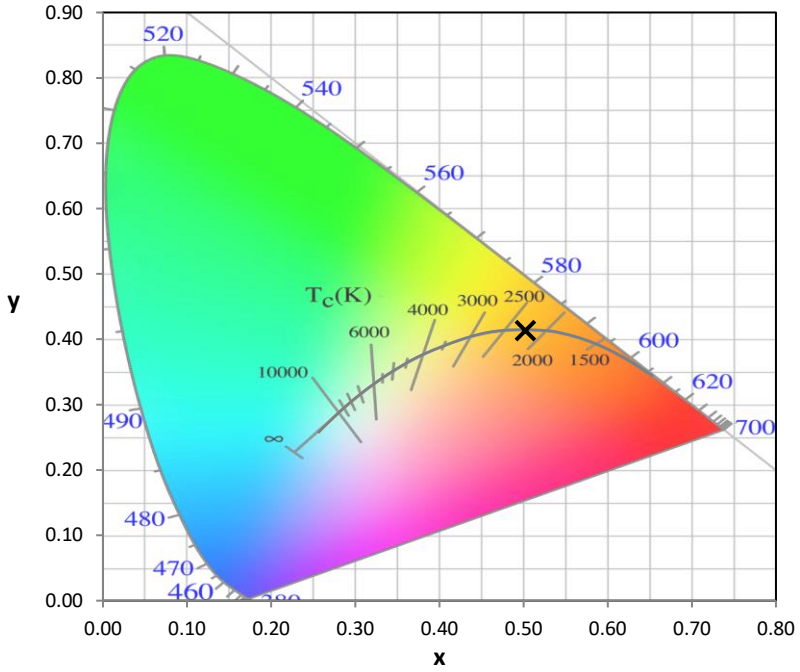
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

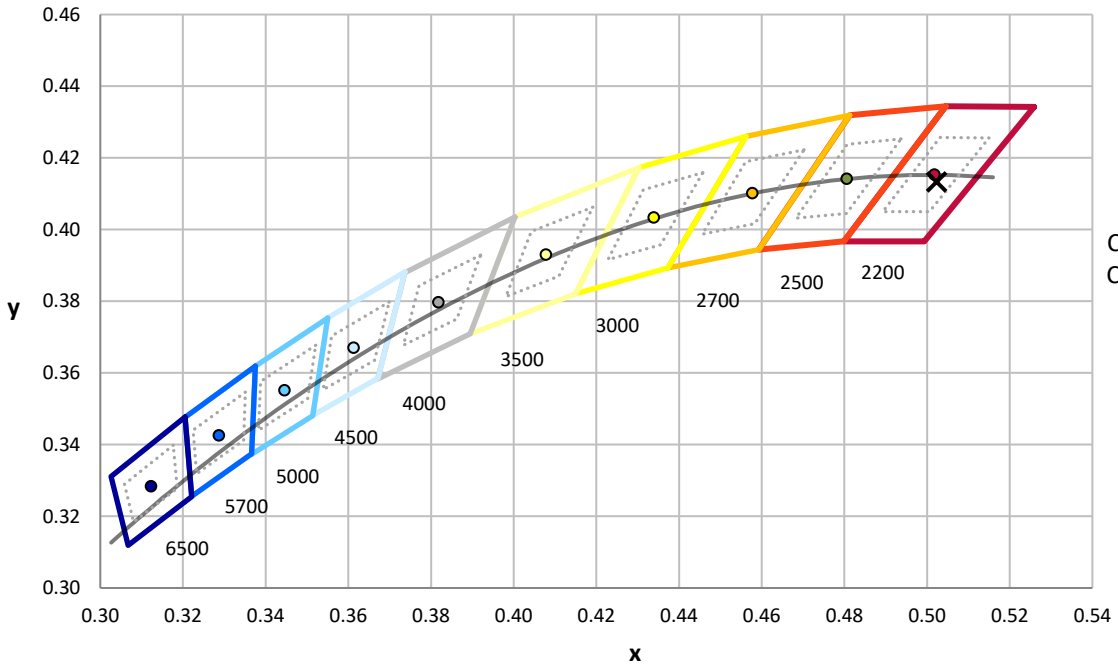
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

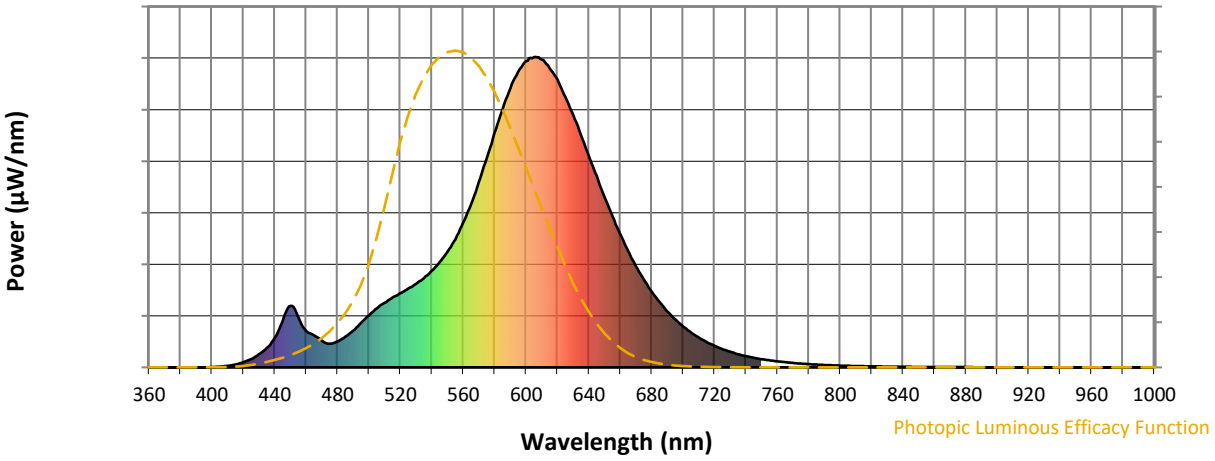


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

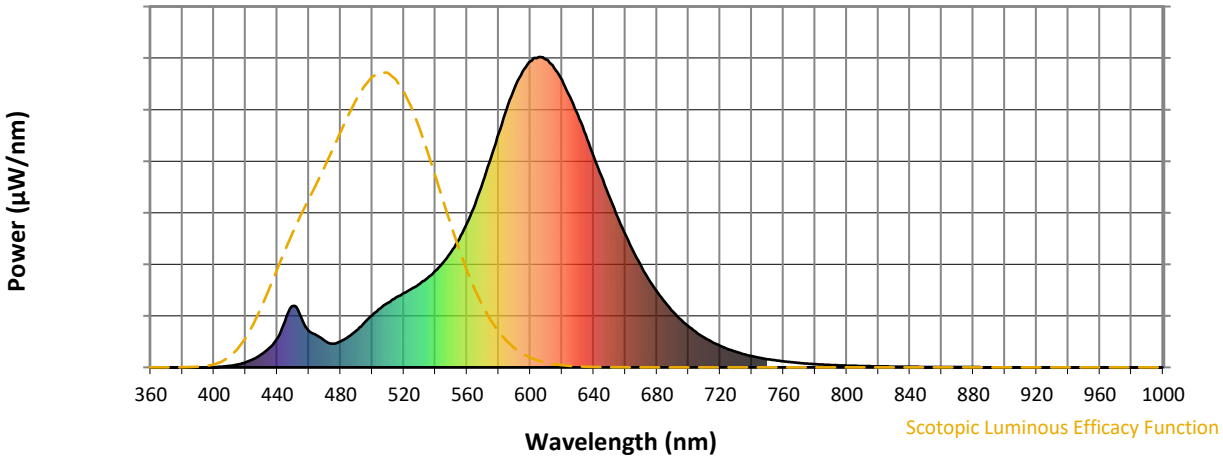


Photopic Lumens: NR

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

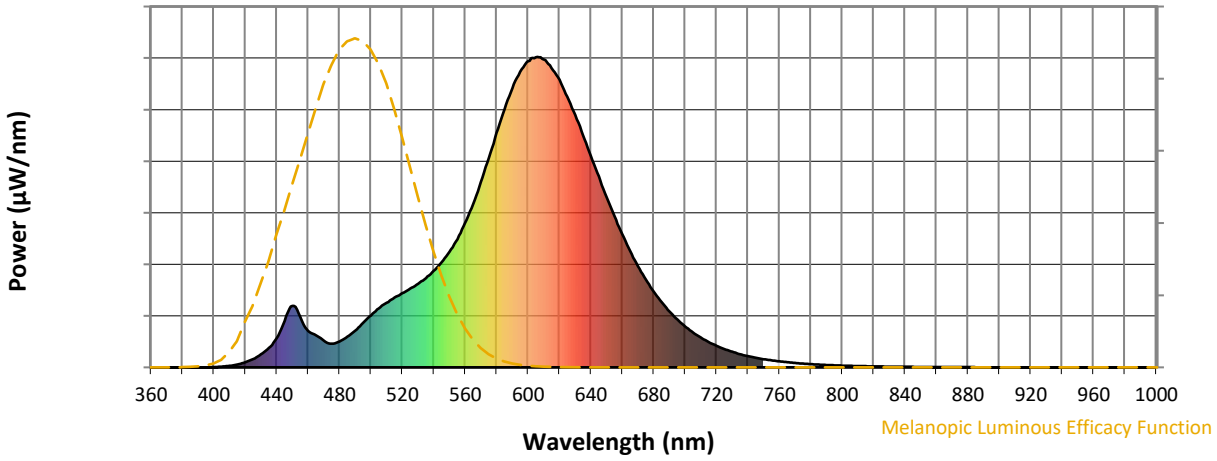


Scotopic Lumens: NR **S/P: 0.94**

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			

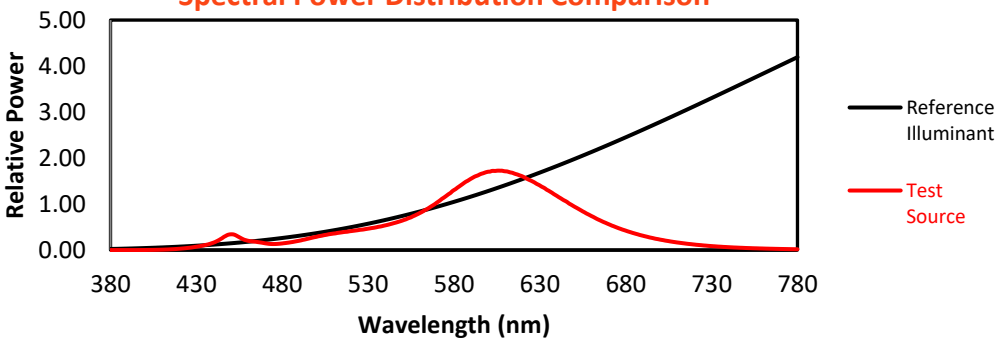
REPORT NUMBER: SP1-2501-332-2

TM-30-18

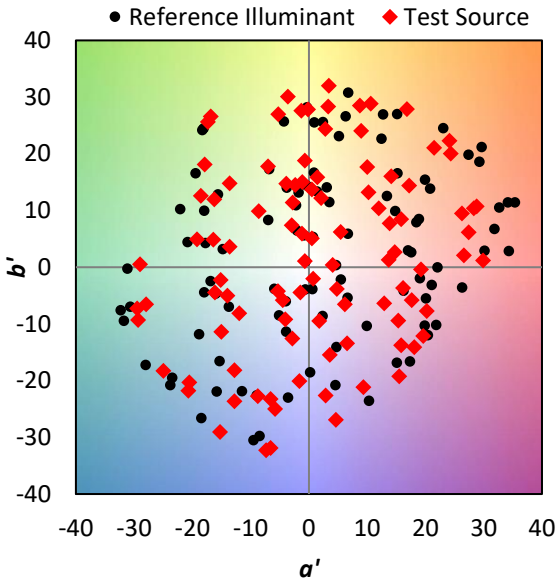
Summary

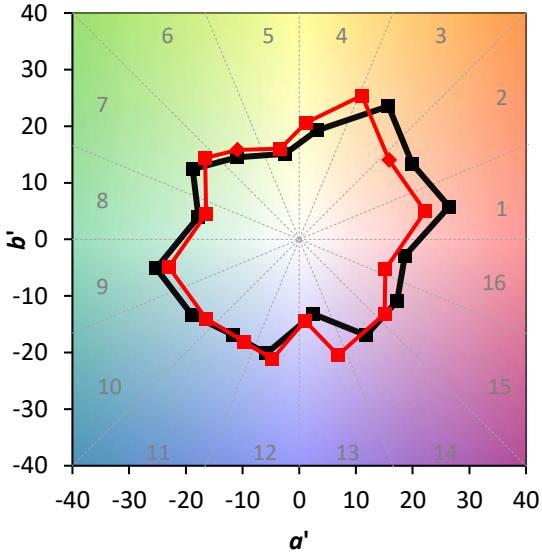
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

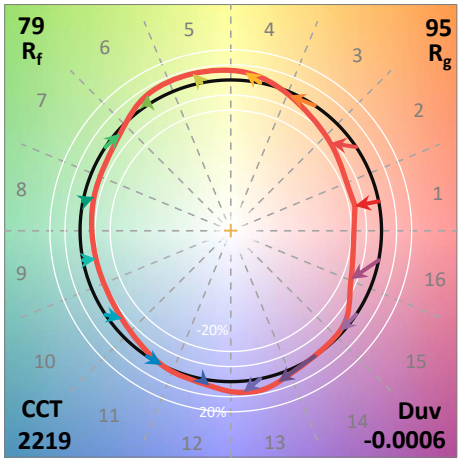
Spectral Power Distribution Comparison

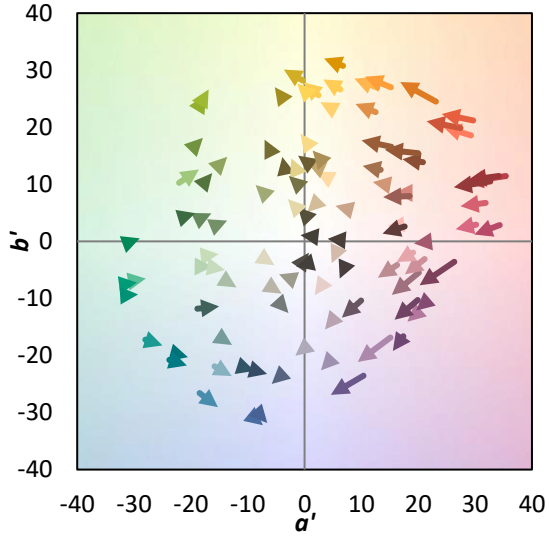


Color Vector Graphics







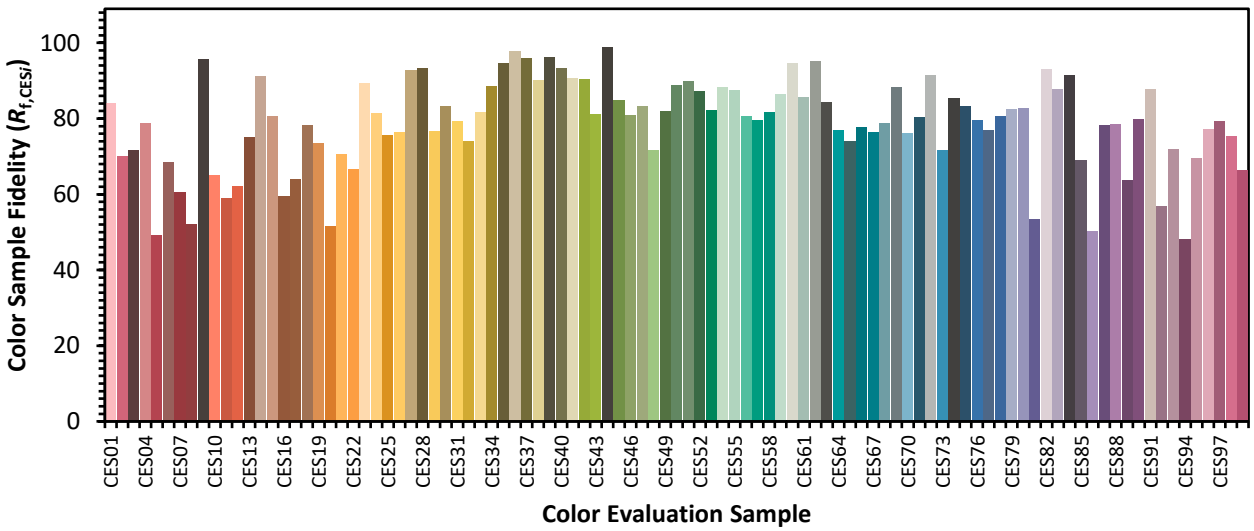


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

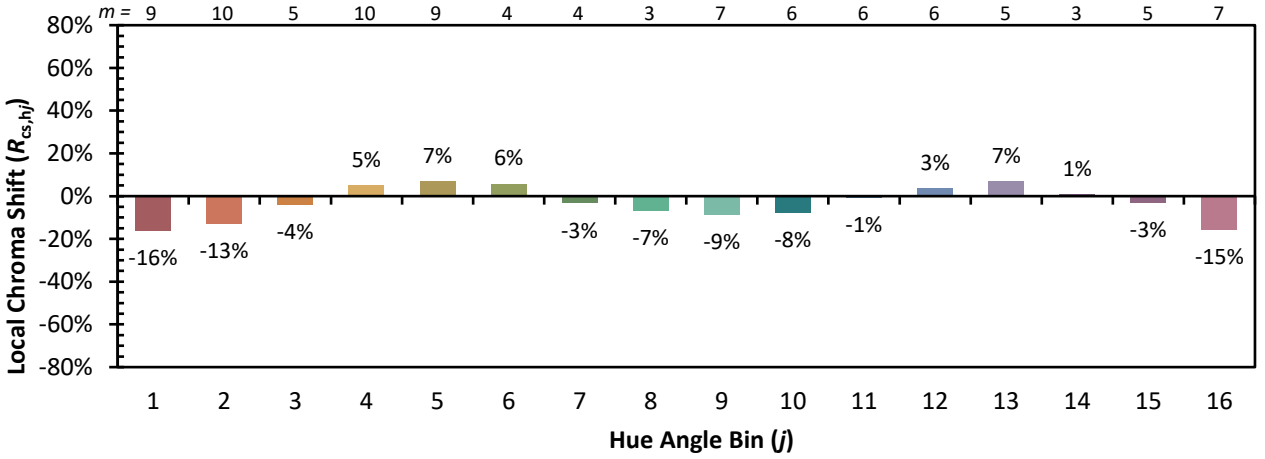
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

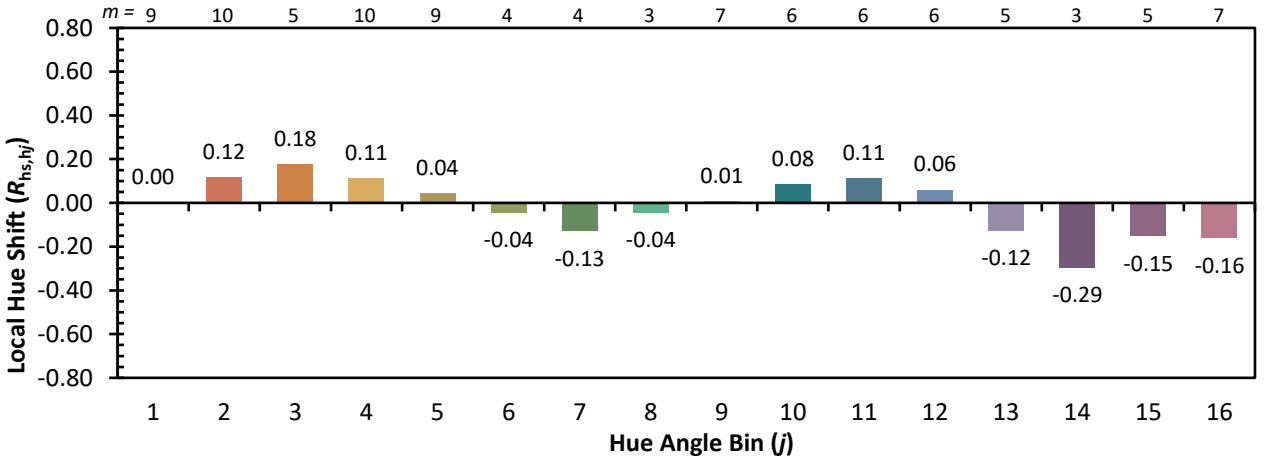


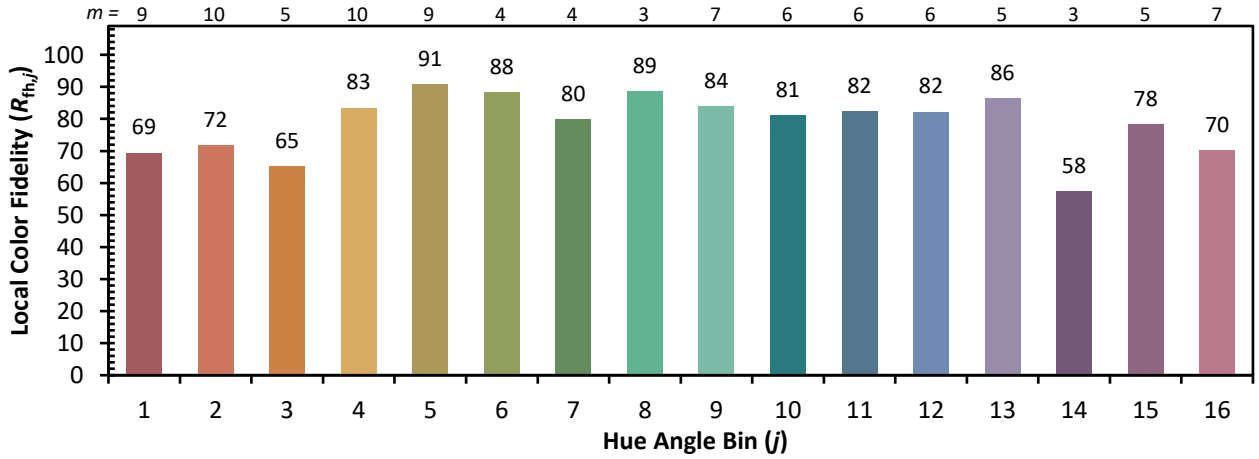
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



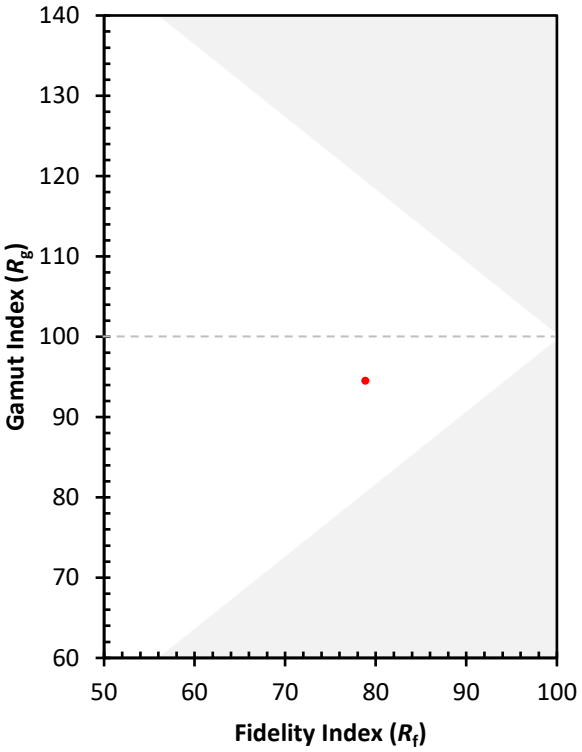


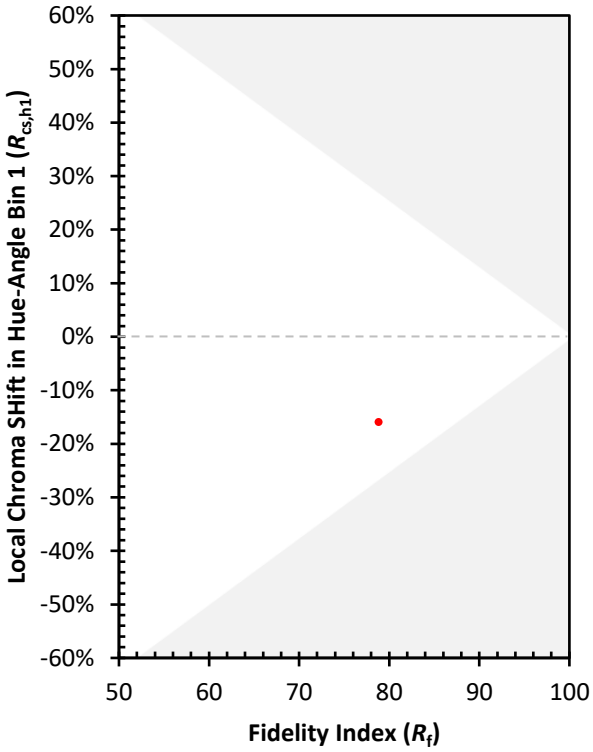


REPORT NUMBER: SP1-2501-332-2

TM-30-18

Measure Comparisons





(END OF REPORT)