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: P1223911

Luminaire Tested: **FFX-CLB-40-740-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:	P1223911
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-740-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6349.9 lumens
Efficiency:	N/A
Efficacy:	161.2 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):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

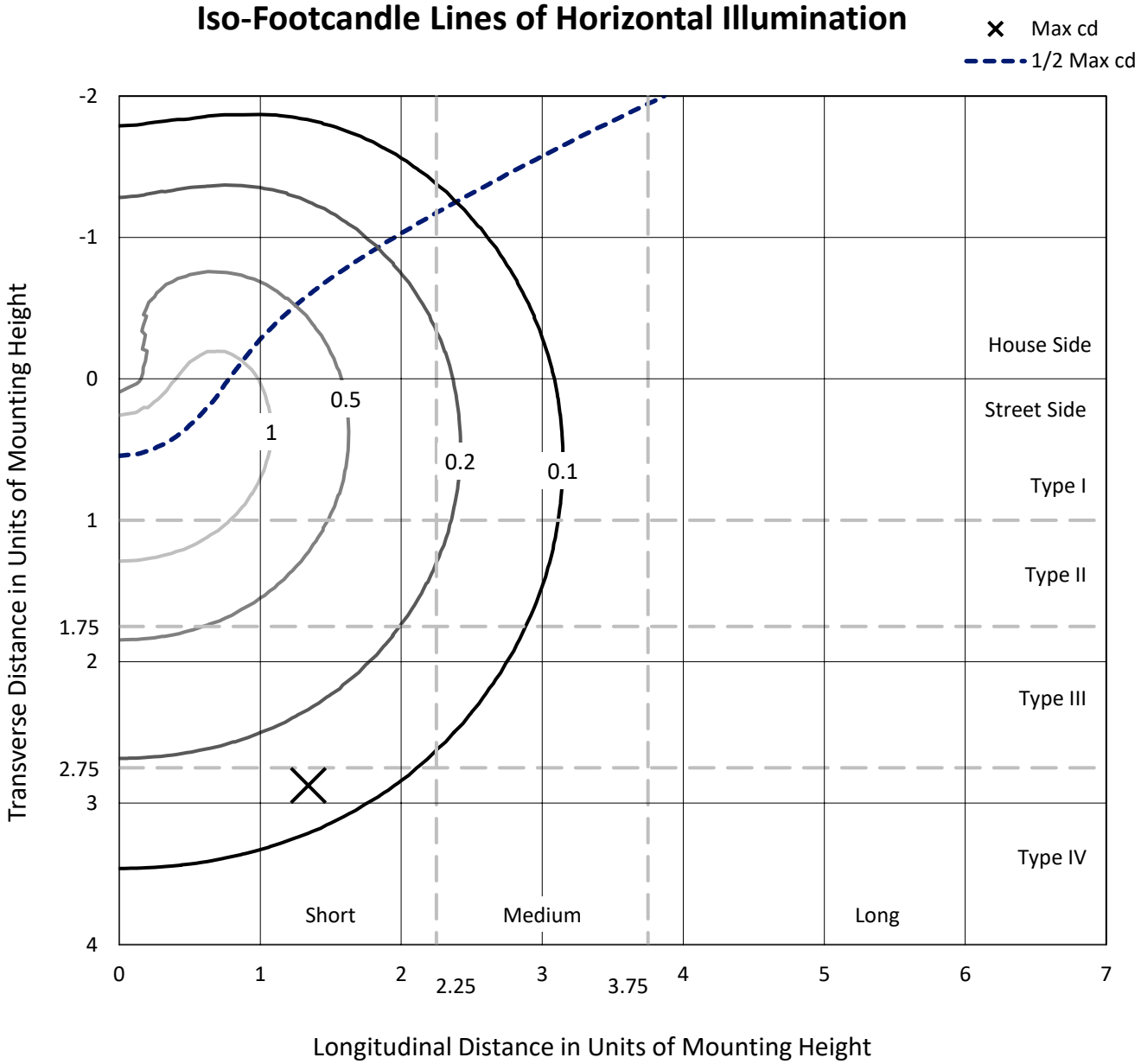


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223911
CATALOG NUMBER: FFX-CLB-40-740-U-VM9-T4

Iso-Footcandle Lines of Horizontal Illumination



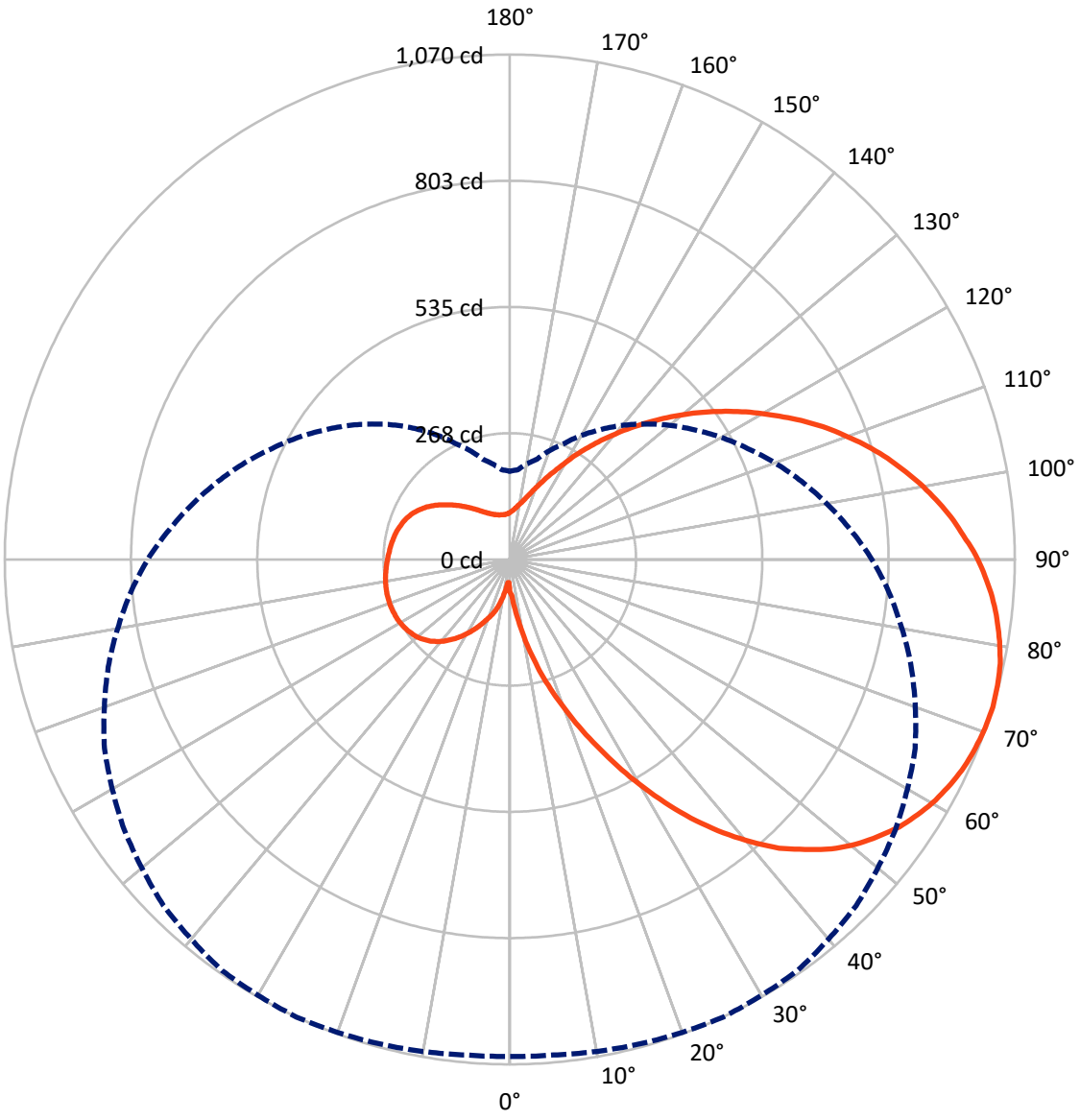
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223911
CATALOG NUMBER: FFX-CLB-40-740-U-VM9-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

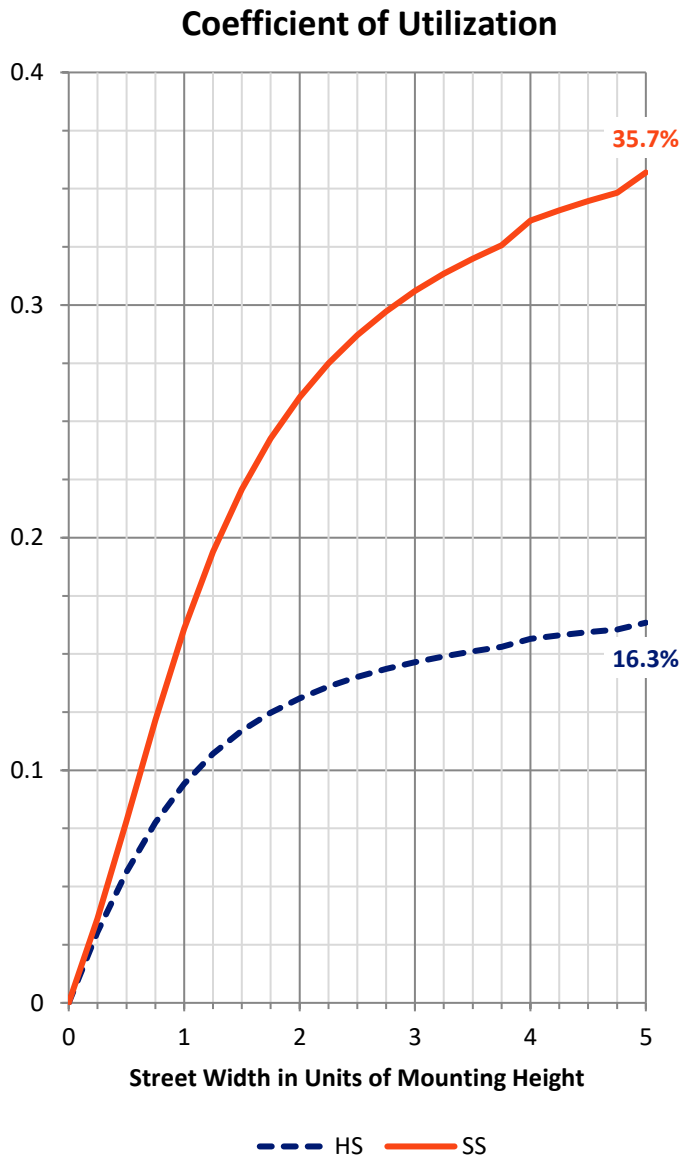
REPORT NUMBER: P1223911
CATALOG NUMBER: FFX-CLB-40-740-U-VM9-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1144.1	875.5	2019.6
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	2587.6	1742.8	4330.4
	% Fixture	40.7	27.4	68.2
Total	Lumens	3731.6	2618.3	6349.9
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.1
10°-20°	53.9	0.8
20°-30°	146.9	2.3
30°-40°	291.0	4.6
40°-50°	454.3	7.2
50°-60°	595.5	9.4
60°-70°	694.9	10.9
70°-80°	745.6	11.7
80°-90°	740.7	11.7
90°-100°	687.2	10.8
100°-110°	598.4	9.4
110°-120°	484.1	7.6
120°-130°	356.4	5.6
130°-140°	235.7	3.7
140°-150°	139.4	2.2
150°-160°	73.3	1.2
160°-170°	34.0	0.5
170°-180°	9.8	0.2
0°-90°	3731.6	58.8
0°-180°	6349.9	100.0



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

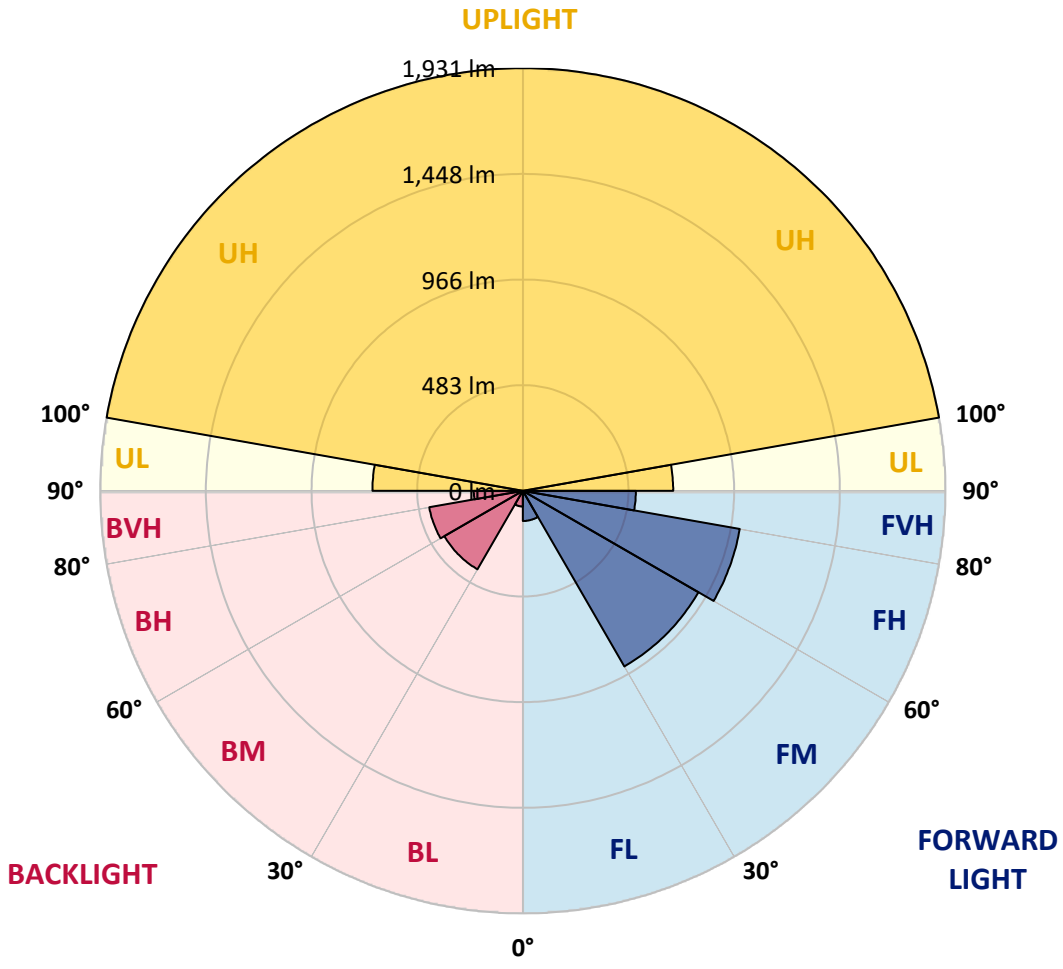
Scaled Data Report

REPORT NUMBER: P1223911
CATALOG NUMBER: FFX-CLB-40-740-U-VM9-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	137.9	2.2			
FM	(30°-60°)	926.8	14.6			
FH	(60°-80°)	1006.5	15.9			G1/1800
FVH	(80°-90°)	516.4	8.1			G4/750
BL	(0°-30°)	71.8	1.1	B0/110		
BM	(30°-60°)	414.0	6.5	B1/1000		
BH	(60°-80°)	433.9	6.8	B1/500		G1/500
BVH	(80°-90°)	224.3	3.5			G2/225
UL	(90°-100°)	687.2	10.8		U4/1000	
UH	(100°-180°)	1931.1	30.4		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: P1223911
CATALOG NUMBER: FFX-CLB-40-740-U-VM9-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	69.0	69.0	69.0	*69.0*	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	74.1	74.1	75.4	*75.8*	76.3	76.3	76.7	76.3	74.5	72.4	71.1
5°	101.1	100.3	99.8	*100.3*	100.3	98.5	96.0	91.3	87.8	82.3	80.1
7.5°	135.4	134.5	133.2	*132.0*	132.0	127.7	123.4	119.5	113.5	105.8	103.3
10°	175.2	173.5	171.8	*169.2*	166.2	162.4	156.8	150.4	142.2	134.1	129.0
12.5°	214.2	213.8	212.9	*209.1*	203.5	200.1	194.1	185.1	174.8	163.7	159.4
15°	259.2	257.1	255.8	*252.8*	249.3	242.5	232.6	224.1	212.1	196.7	191.5
17.5°	300.8	299.9	297.3	*296.5*	290.9	283.6	272.5	259.6	245.1	230.9	223.2
20°	346.2	348.3	345.3	*342.7*	332.9	325.6	315.3	302.9	285.3	265.2	257.1
22.5°	396.7	398.9	394.2	*394.2*	386.0	374.0	359.5	344.9	323.0	302.0	291.8
25°	455.4	456.3	449.0	*446.0*	440.0	428.0	410.4	393.3	368.0	341.5	329.5
27.5°	511.1	512.8	508.6	*504.7*	494.8	483.3	464.0	443.9	415.2	383.5	370.2
30°	574.1	570.7	569.0	*562.1*	551.8	539.8	518.4	496.1	463.1	425.9	409.6
32.5°	629.8	627.2	628.5	*622.9*	608.0	594.7	574.5	547.5	509.0	470.0	451.6
35°	687.2	688.5	686.8	*680.8*	671.8	654.2	626.8	596.4	557.8	512.0	492.3
37.5°	745.9	742.9	740.8	*735.6*	726.6	706.9	679.9	645.7	601.1	552.7	530.8
40°	796.5	798.6	796.0	*787.5*	779.3	757.5	727.9	688.9	643.1	591.2	566.0
42.5°	844.4	843.6	841.4	*836.7*	825.6	802.5	773.3	733.5	681.6	624.2	597.7
45°	883.0	883.9	883.9	*877.0*	866.7	845.7	812.3	771.6	716.3	655.9	628.1
47.5°	919.9	921.1	920.3	*917.3*	906.1	881.3	847.4	805.5	746.8	684.6	653.4
50°	952.4	952.4	952.0	*949.4*	938.7	914.7	880.0	835.0	774.2	708.6	677.8
52.5°	979.4	979.0	979.4	*976.4*	965.3	943.4	907.4	859.4	798.6	728.8	698.8
55°	1000.8	999.5	1002.5	*1001.3*	991.4	967.0	928.9	882.2	819.2	748.0	716.3
57.5°	1018.0	1017.5	1021.4	*1020.1*	1010.3	985.8	948.1	900.6	836.3	763.9	729.2
60°	1032.1	1031.2	1036.4	*1036.4*	1026.5	1002.1	964.8	914.7	850.0	776.3	741.2
62.5°	1042.0	1042.4	1047.1	*1048.8*	1040.2	1015.4	976.4	927.1	861.2	786.2	750.6
65°	1048.8	1049.7	1055.2	*1058.7*	1050.1	1025.7	985.4	936.1	870.2	794.3	757.9
67.5°	1053.1	1053.5	1061.2	*1064.7*	1057.8	1032.1	993.1	942.6	876.2	799.5	763.5
70°	1054.8	1055.2	1063.8	*1068.9*	1062.1	1036.0	996.5	946.0	880.0	802.9	766.5
72.5°	*1053.5*	*1054.4*	*1063.4*	*1070.2*	*1063.4*	*1037.7*	*997.8*	*947.7*	*880.9*	*806.7*	*767.3*
75°	1049.2	1050.1	1060.4	*1067.2*	1062.1	1035.5	995.7	946.0	879.6	803.3	766.0
77.5°	1042.0	1043.2	1054.0	*1062.5*	1056.5	1031.2	991.4	941.3	874.9	799.0	761.3
80°	1031.2	1031.7	1043.7	*1052.2*	1048.0	1022.7	982.8	933.1	867.2	791.8	754.9
82.5°	1017.5	1019.3	1030.8	*1040.2*	1036.4	1010.3	971.7	922.9	857.3	782.8	745.5
85°	1003.0	1004.7	1015.4	*1025.7*	1021.0	996.5	958.0	909.6	844.0	770.3	734.8
87.5°	985.4	986.7	997.0	*1007.7*	1003.4	979.0	941.7	894.1	830.3	758.8	722.3
90°	966.1	967.4	977.3	*987.5*	982.0	958.8	922.4	875.7	813.6	743.3	708.2
92.5°	945.6	946.0	957.1	*962.7*	959.7	939.1	903.1	858.2	796.0	727.5	694.5
95°	922.4	922.4	933.1	*939.1*	934.0	914.7	880.9	835.9	775.5	711.2	677.4
97.5°	897.1	898.0	906.1	*912.1*	910.4	890.3	858.2	815.3	757.5	693.6	661.5
100°	871.0	871.0	878.3	*883.4*	879.6	863.3	832.9	793.5	734.8	674.8	643.5
102.5°	843.6	843.2	849.2	*853.0*	850.4	835.5	807.2	768.2	713.3	655.1	625.5
105°	813.2	811.9	817.9	*822.2*	819.6	806.3	782.3	744.6	691.5	635.8	607.5
107.5°	780.6	782.8	786.2	*788.8*	786.6	775.0	752.3	718.9	668.8	615.7	588.2
110°	749.8	751.0	751.5	*754.5*	754.0	744.6	725.3	691.9	644.4	594.2	567.7

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

Scaled Data Report

REPORT NUMBER: P1223911
CATALOG NUMBER: FFX-CLB-40-740-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	718.5	718.1	718.5	*720.6*	720.6	711.2	692.8	663.6	620.4	571.5	547.1
115°	684.6	682.9	683.4	*683.8*	685.5	678.2	662.4	634.9	592.5	549.3	525.3
117.5°	649.5	649.1	648.2	*646.9*	646.9	643.9	630.2	605.8	565.5	522.7	502.6
120°	616.1	614.4	612.2	*611.0*	611.8	608.4	597.2	572.8	537.3	498.7	478.6
122.5°	577.5	578.8	577.5	*575.8*	576.2	572.8	563.4	542.8	507.3	470.4	452.4
125°	544.5	544.1	542.4	*539.8*	539.8	538.5	528.3	510.3	478.6	443.4	426.7
127.5°	507.7	508.1	506.4	*505.1*	506.0	503.4	496.6	476.0	448.1	416.9	400.6
130°	473.0	472.6	472.1	*469.6*	471.7	467.0	461.0	443.9	417.3	390.7	375.7
132.5°	440.4	437.9	436.1	*435.7*	435.3	434.9	427.6	412.6	390.3	363.7	349.2
135°	407.9	405.7	403.6	*402.7*	403.6	401.4	395.0	382.6	362.0	336.3	325.2
137.5°	374.5	373.6	373.6	*371.5*	371.5	369.7	364.2	353.9	334.6	312.3	301.2
140°	344.5	342.7	341.9	*340.6*	341.9	340.2	334.2	324.3	308.0	288.8	278.1
142.5°	313.6	311.9	313.2	*311.9*	310.6	309.8	304.6	296.9	282.8	265.2	256.2
145°	284.9	284.9	284.1	*284.5*	283.6	282.8	277.6	270.3	258.3	242.1	235.6
147.5°	257.9	258.8	257.9	*258.8*	258.8	255.3	251.9	245.9	234.8	221.9	215.1
150°	232.6	233.9	233.1	*232.6*	233.1	231.4	226.6	223.2	213.4	202.2	195.4
152.5°	211.2	212.1	212.1	*211.2*	210.8	209.9	205.2	200.5	192.8	184.2	179.5
155°	191.1	191.1	191.5	*191.9*	190.7	188.1	186.4	182.5	175.7	167.9	163.2
157.5°	174.4	173.9	174.4	*173.9*	173.5	170.9	168.4	165.4	159.8	153.0	150.4
160°	158.5	158.5	158.9	*158.5*	156.8	155.5	153.4	150.8	146.1	141.4	138.0
162.5°	145.7	145.7	145.7	*145.2*	143.5	143.1	140.5	138.0	134.1	130.2	127.7
165°	134.5	134.5	134.1	*134.1*	133.2	132.0	129.8	127.7	124.2	121.2	119.5
167.5°	125.5	125.1	124.7	*124.2*	123.8	122.5	120.4	119.1	116.5	114.0	112.7
170°	117.8	117.8	117.4	*117.4*	116.5	115.2	114.0	112.3	110.5	108.0	107.1
172.5°	111.0	111.0	111.0	*111.0*	109.7	109.3	108.0	106.7	105.4	103.7	102.8
175°	105.8	105.8	105.8	*105.8*	105.0	104.1	103.7	102.4	101.5	100.3	99.8
177.5°	102.0	102.0	102.0	*102.0*	101.5	100.7	100.3	99.4	98.5	98.1	97.7
180°	98.5	98.5	98.5	*98.5*	98.5	98.5	98.5	98.5	98.5	98.5	98.5

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

Scaled Data Report

REPORT NUMBER: P1223911
CATALOG NUMBER: FFX-CLB-40-740-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	69.8	67.3	63.8	60.0	57.0	53.1	49.3	47.1	45.8	45.0
5°	78.0	72.4	67.3	61.7	57.4	53.6	49.3	45.8	44.1	43.7
7.5°	99.4	91.7	84.0	77.1	71.1	65.1	60.8	57.4	55.3	55.3
10°	125.1	114.4	105.4	96.4	88.3	81.0	75.0	71.5	69.0	68.1
12.5°	154.2	141.4	129.0	118.7	106.7	98.5	91.3	86.5	83.5	83.1
15°	184.7	171.4	155.5	141.4	128.1	115.2	106.7	99.8	97.3	97.3
17.5°	213.8	196.7	179.1	161.9	145.7	130.7	118.7	111.0	107.1	106.3
20°	245.1	224.5	201.8	181.7	161.5	144.0	129.8	120.0	114.8	114.4
22.5°	277.2	253.2	228.8	202.2	179.1	158.1	141.4	129.8	123.4	122.5
25°	314.0	284.9	255.8	226.6	198.8	173.9	154.2	140.1	132.8	132.0
27.5°	354.7	318.3	283.6	250.2	217.6	190.2	166.7	150.4	141.4	141.0
30°	392.0	351.7	312.3	273.8	238.2	205.2	179.1	160.2	150.4	149.1
32.5°	429.3	384.7	340.2	297.8	256.6	221.1	191.5	169.7	158.1	157.2
35°	467.9	417.3	368.9	320.0	277.2	236.9	203.1	179.1	166.7	164.9
37.5°	503.8	449.4	396.3	344.5	295.2	251.5	214.2	188.1	173.9	171.8
40°	536.8	478.1	421.2	365.5	312.3	265.2	224.9	195.8	179.9	178.2
42.5°	567.2	505.1	443.9	383.9	328.2	277.2	233.9	202.2	184.7	182.9
45°	596.0	530.4	464.9	401.0	341.9	288.3	242.5	208.2	189.4	186.8
47.5°	620.4	551.8	481.6	415.6	354.3	297.8	248.9	212.5	192.8	190.2
50°	642.2	569.8	497.4	429.7	365.0	306.3	254.9	215.9	194.5	191.9
52.5°	659.8	586.5	511.1	440.9	374.9	313.2	259.2	218.9	196.2	193.7
55°	676.9	600.2	523.1	450.7	382.2	319.6	262.6	220.6	197.1	194.1
57.5°	691.1	611.8	533.0	458.4	389.4	323.9	265.6	221.5	197.1	193.7
60°	701.4	620.8	540.7	464.9	394.2	327.8	267.8	221.9	196.7	193.2
62.5°	710.3	628.1	546.3	470.4	398.9	330.8	269.9	222.4	195.8	192.4
65°	717.2	634.1	551.0	473.9	401.9	333.3	270.3	221.9	194.5	191.1
67.5°	722.8	637.9	554.0	476.8	404.0	334.6	271.2	221.5	193.7	189.8
70°	724.9	639.7	555.7	478.1	405.3	335.5	271.2	220.6	191.9	188.1
72.5°	*724.5*	*639.7*	*556.1*	*478.6*	*405.7*	*335.9*	*270.8*	*219.4*	*190.7*	*186.8*
75°	723.2	638.4	555.3	478.1	405.3	335.5	270.3	218.5	189.4	185.9
77.5°	719.8	634.9	552.3	476.4	404.4	334.2	269.1	217.6	188.5	184.2
80°	713.8	629.8	548.0	472.6	401.4	332.9	267.8	215.9	186.8	183.4
82.5°	705.2	623.4	542.8	469.1	398.9	330.3	266.1	215.1	185.9	182.5
85°	695.4	615.2	536.0	464.0	395.0	327.8	263.9	213.4	185.1	181.7
87.5°	683.4	604.5	529.1	458.0	390.3	324.3	261.8	212.1	184.7	181.2
90°	670.9	594.7	520.6	452.4	386.4	320.9	259.6	211.2	184.2	181.2
92.5°	657.2	584.0	512.4	445.1	381.3	317.5	257.5	210.4	184.2	181.2
95°	643.5	572.8	504.3	438.7	376.2	314.0	255.3	209.9	185.1	182.1
97.5°	627.2	560.0	494.4	431.9	370.2	310.2	253.6	209.5	185.5	182.9
100°	611.8	547.1	484.1	424.2	364.6	305.9	251.1	209.1	186.4	183.4
102.5°	595.1	534.7	473.9	416.0	358.6	301.2	248.9	208.6	187.2	184.7
105°	578.4	519.7	462.7	406.6	351.3	296.5	246.4	208.2	187.7	185.1
107.5°	560.0	505.6	450.3	397.6	344.0	291.3	242.9	207.4	188.1	185.5
110°	541.1	488.8	437.4	387.3	335.5	284.9	239.5	205.2	187.7	185.5

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

Scaled Data Report

REPORT NUMBER: P1223911
CATALOG NUMBER: FFX-CLB-40-740-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	523.1	473.0	423.3	375.7	326.5	278.5	234.8	203.1	186.4	184.7
115°	500.8	455.0	408.3	363.3	316.2	270.3	229.6	200.1	184.7	182.5
117.5°	480.3	436.1	392.4	350.0	305.5	262.2	223.6	196.2	181.7	179.9
120°	457.1	416.0	375.3	335.0	293.5	252.8	216.4	191.5	177.8	176.5
122.5°	434.4	396.3	357.7	319.6	280.6	242.1	209.1	185.5	173.5	172.2
125°	410.4	375.3	339.3	303.3	266.5	230.9	200.5	178.7	167.9	166.7
127.5°	386.0	353.5	319.6	286.2	252.8	219.8	191.5	171.8	161.5	161.1
130°	360.3	331.2	300.3	269.5	238.6	208.2	182.1	164.5	155.1	154.2
132.5°	337.2	310.2	281.5	252.3	223.2	196.7	173.1	156.8	148.7	147.8
135°	314.5	287.5	262.6	236.9	209.9	185.1	164.1	149.5	142.2	141.4
137.5°	291.3	267.8	244.6	220.6	196.2	173.9	155.5	142.7	136.2	135.4
140°	268.2	248.5	227.5	204.8	183.8	163.7	147.0	136.2	130.2	129.4
142.5°	247.2	228.4	209.5	189.8	170.9	153.8	139.2	129.0	123.8	123.4
145°	226.6	210.4	193.2	175.7	159.4	145.2	132.0	123.4	119.1	118.7
147.5°	208.2	193.7	178.2	163.2	149.1	135.8	125.1	117.8	113.5	113.1
150°	189.8	176.9	164.1	151.2	139.2	128.1	118.7	112.7	109.7	108.8
152.5°	173.5	163.2	151.7	141.0	130.2	120.8	113.5	108.0	105.4	105.0
155°	158.9	150.4	141.0	131.5	123.0	115.2	108.8	104.5	102.4	102.4
157.5°	146.5	139.2	131.5	123.8	117.0	110.5	105.4	102.0	100.3	99.8
160°	135.4	129.0	123.0	117.4	111.0	106.3	102.4	99.4	98.1	97.7
162.5°	125.1	120.8	116.1	111.4	106.7	102.8	99.8	97.7	96.8	96.8
165°	117.8	114.0	110.1	106.7	103.3	100.7	98.1	96.8	96.0	95.5
167.5°	111.4	108.4	105.8	103.3	100.7	98.5	96.8	96.0	95.1	95.1
170°	106.3	104.1	102.4	100.7	99.0	97.3	96.4	95.5	95.1	95.1
172.5°	102.0	100.7	99.4	98.5	97.3	96.4	95.5	95.1	95.1	95.1
175°	99.4	98.5	97.7	97.3	96.8	96.4	96.0	95.5	95.5	95.5
177.5°	97.7	97.3	97.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8
180°	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

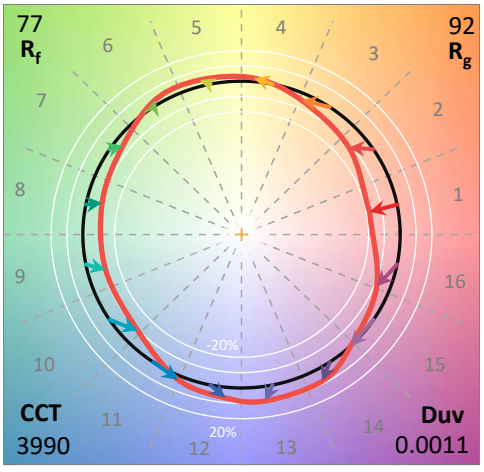
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3990	CRI (Ra):	73.9		
CIE u':	0.2247	R1:	69.6	R9:	-36.4
CIE v':	0.5031	R2:	83.0	R10:	60.9
Duv:	0.0011	R3:	93.1	R11:	66.8
CIE x:	0.3816	R4:	70.6	R12:	52.5
CIE y:	0.3798	R5:	70.6	R13:	72.5
CIE z:	0.2386	R6:	76.4	R14:	96.4
Peak Wavelength (nm):	450	R7:	79.8	R15:	61.3
Dominant Wavelength (nm):	578	R8:	48.1		
Purity:	28.50862				

Rf:	77.5
Rg:	91.9



Test Conditions

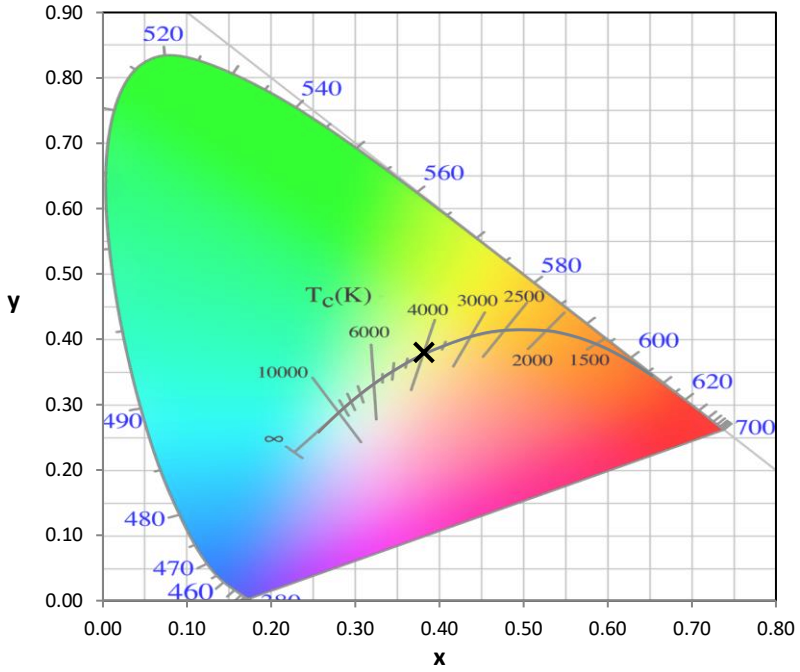
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

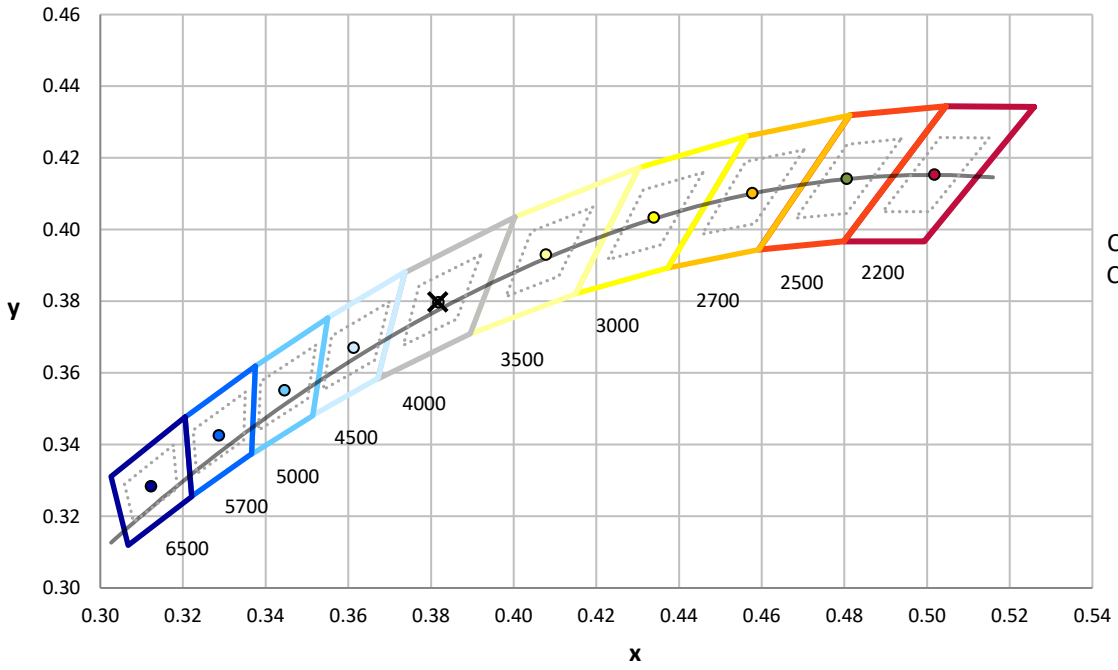
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

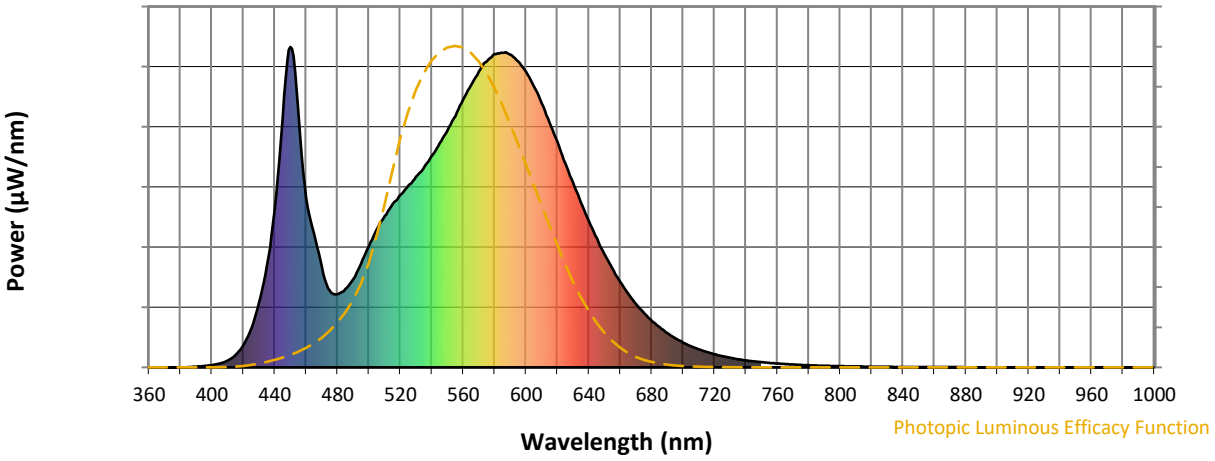


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

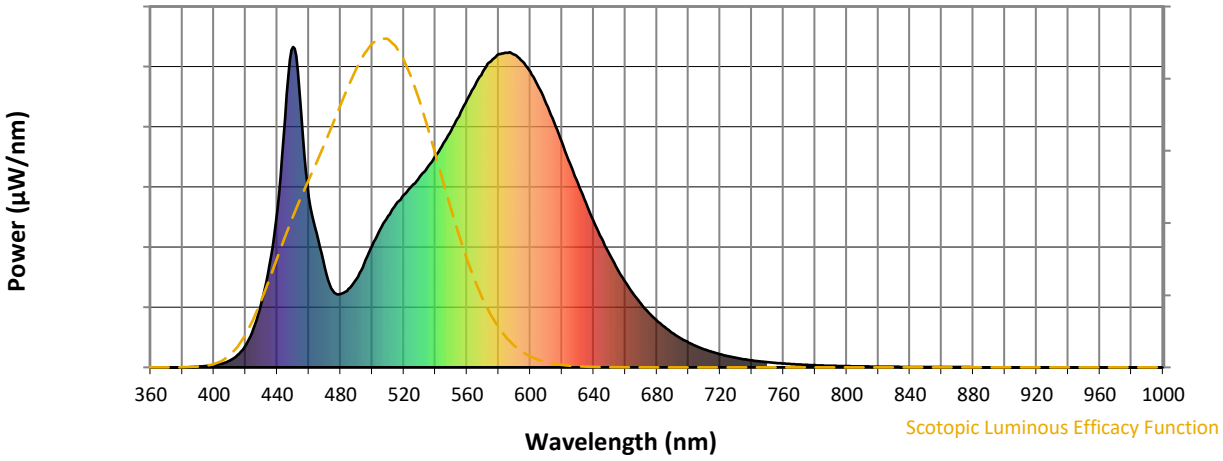


Photopic Lumens: NR

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

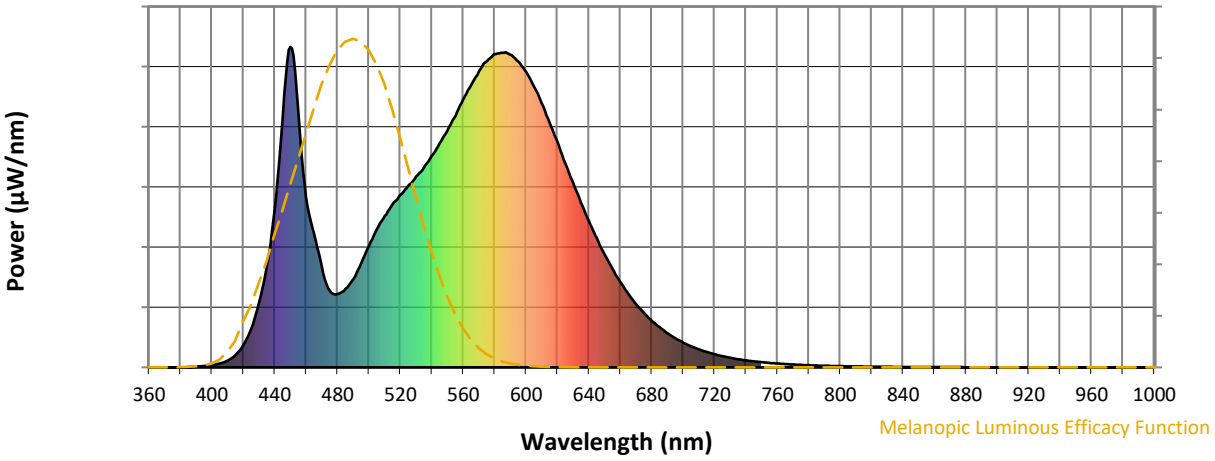


Scotopic Lumens: NR **S/P: 1.59**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.21**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

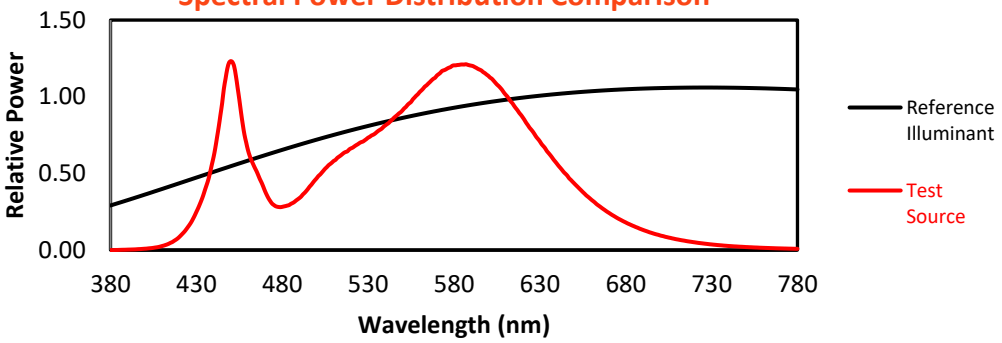
REPORT NUMBER: SP1-2501-332-1

TM-30-18

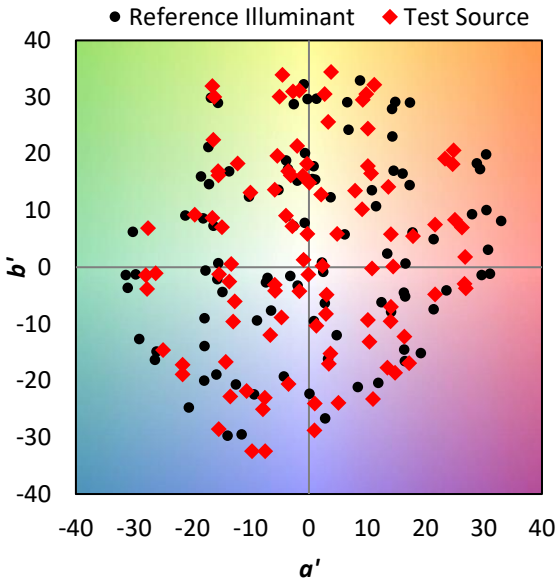
Summary

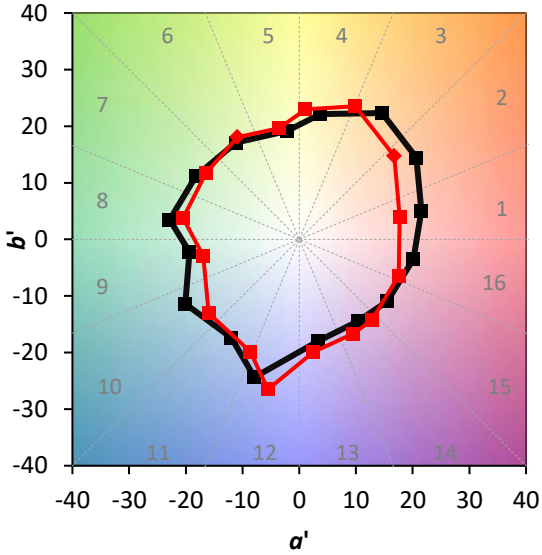
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

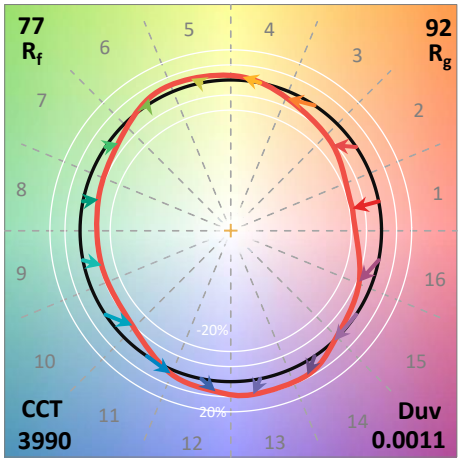
Spectral Power Distribution Comparison

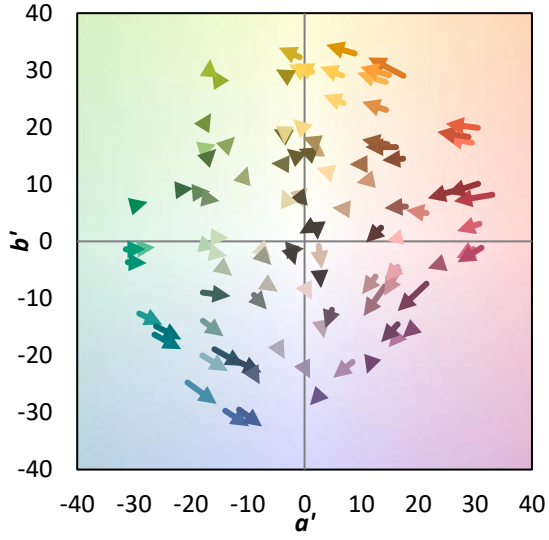


Color Vector Graphics







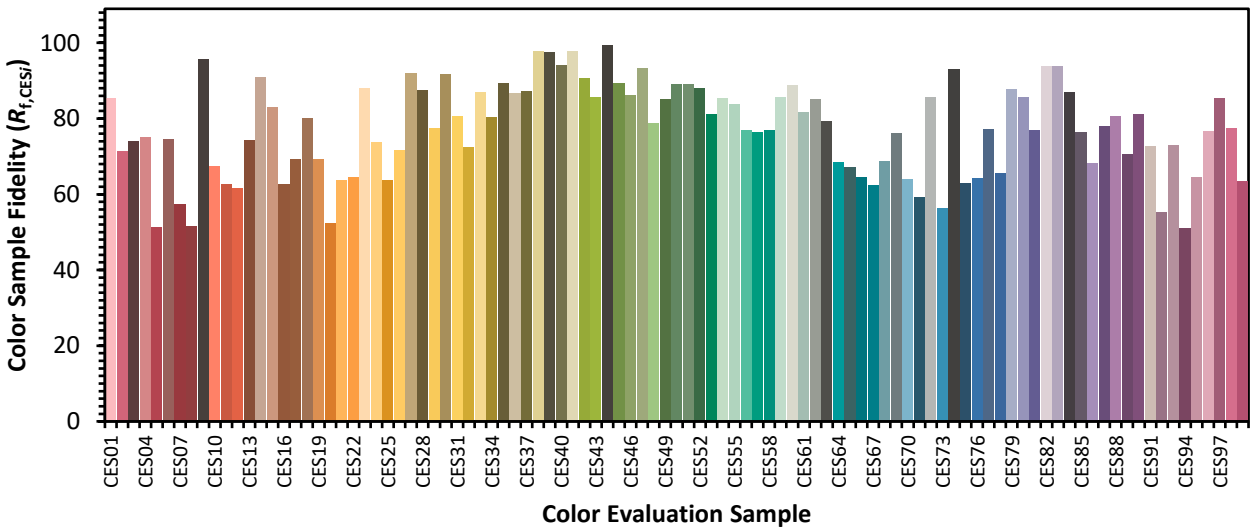


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

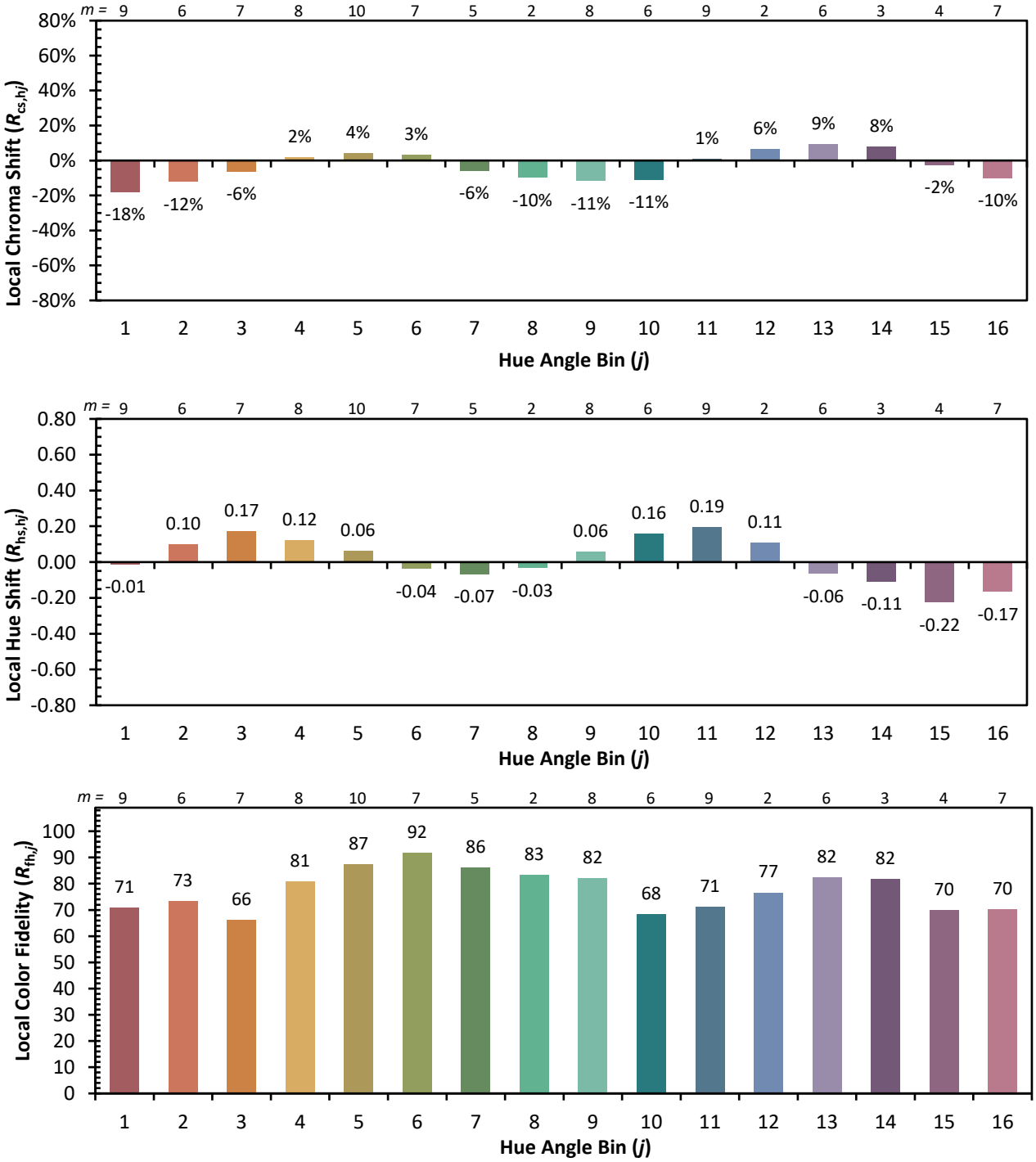
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



REPORT NUMBER: SP1-2501-332-1

TM-30-18

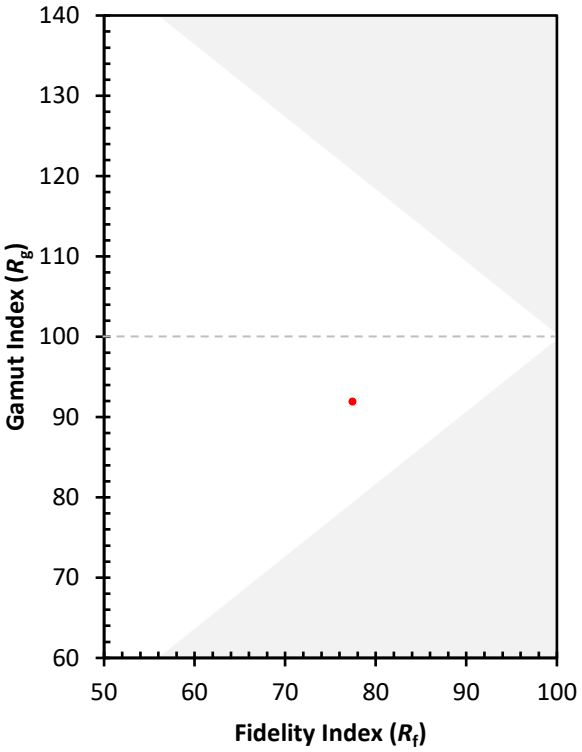
Color Rendition by Hue-Angle Bin

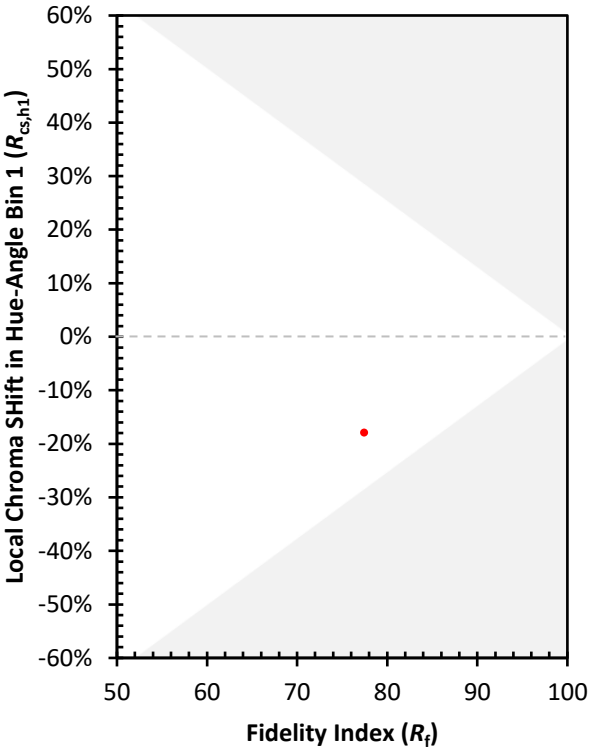


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)