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: P1224047

Luminaire Tested: **FFX-CLB-30-740-U-VM8-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:	P1224047
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-740-U-VM8-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4536.8 lumens
Efficiency:	N/A
Efficacy:	148.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

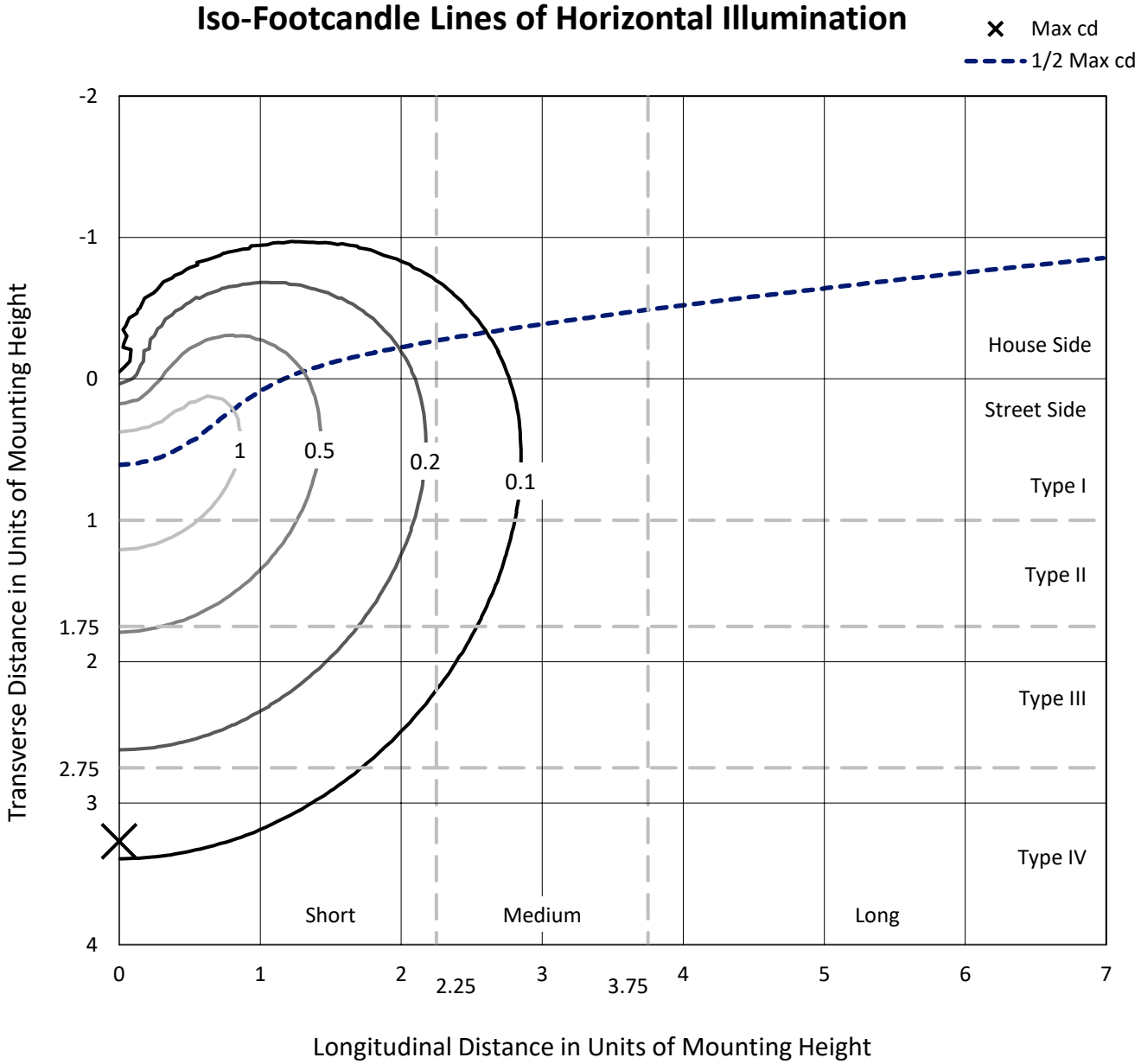


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1224047
CATALOG NUMBER: FFX-CLB-30-740-U-VM8-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



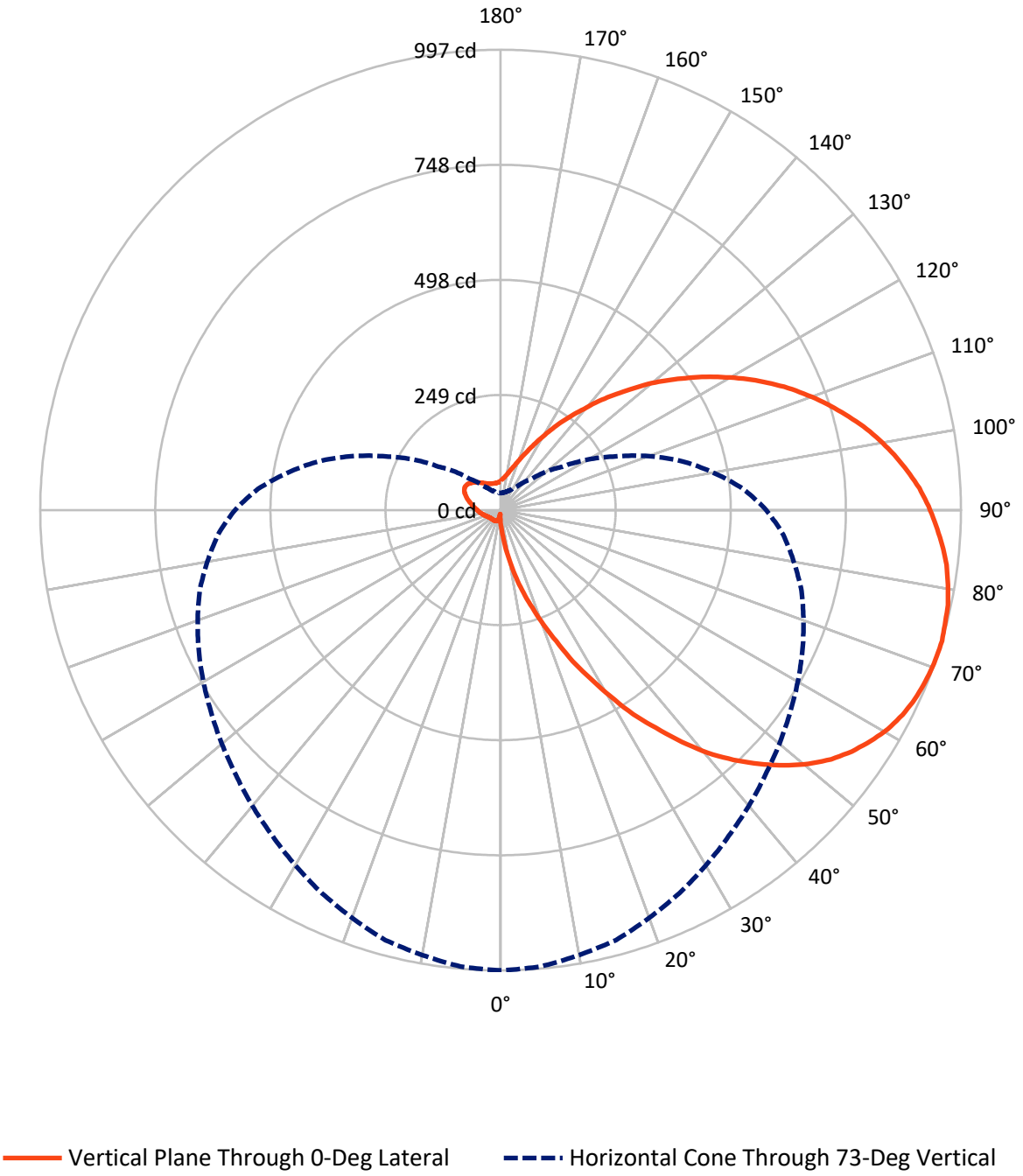
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1224047
CATALOG NUMBER: FFX-CLB-30-740-U-VM8-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

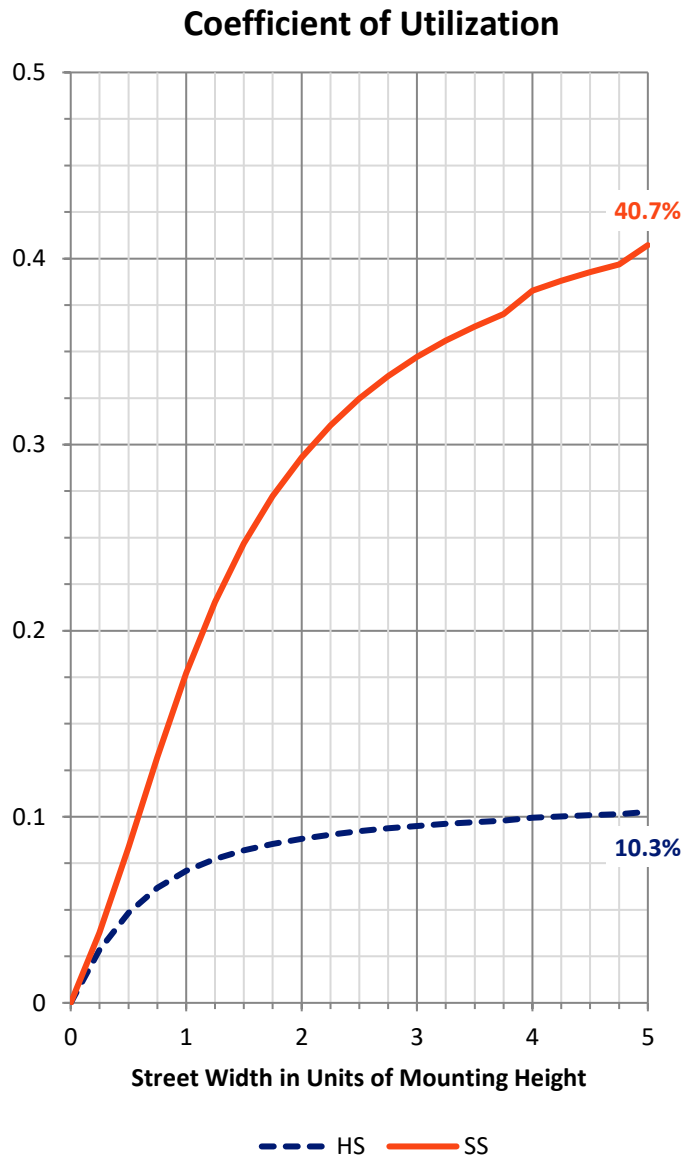
REPORT NUMBER: P1224047
CATALOG NUMBER: FFX-CLB-30-740-U-VM8-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.5	493.8	996.3
	% Fixture	11.1	10.9	22.0
Street Side	Lumens	2118.7	1421.8	3540.5
	% Fixture	46.7	31.3	78.0
Total	Lumens	2621.2	1915.6	4536.8
	% Fixture	57.8	42.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	32.2	0.7
20°-30°	97.1	2.1
30°-40°	202.3	4.5
40°-50°	320.6	7.1
50°-60°	421.2	9.3
60°-70°	490.7	10.8
70°-80°	526.0	11.6
80°-90°	526.4	11.6
90°-100°	493.6	10.9
100°-110°	434.2	9.6
110°-120°	358.6	7.9
120°-130°	269.9	5.9
130°-140°	178.1	3.9
140°-150°	102.1	2.3
150°-160°	50.7	1.1
160°-170°	22.1	0.5
170°-180°	6.2	0.1
0°-90°	2621.2	57.8
0°-180°	4536.8	100.0



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

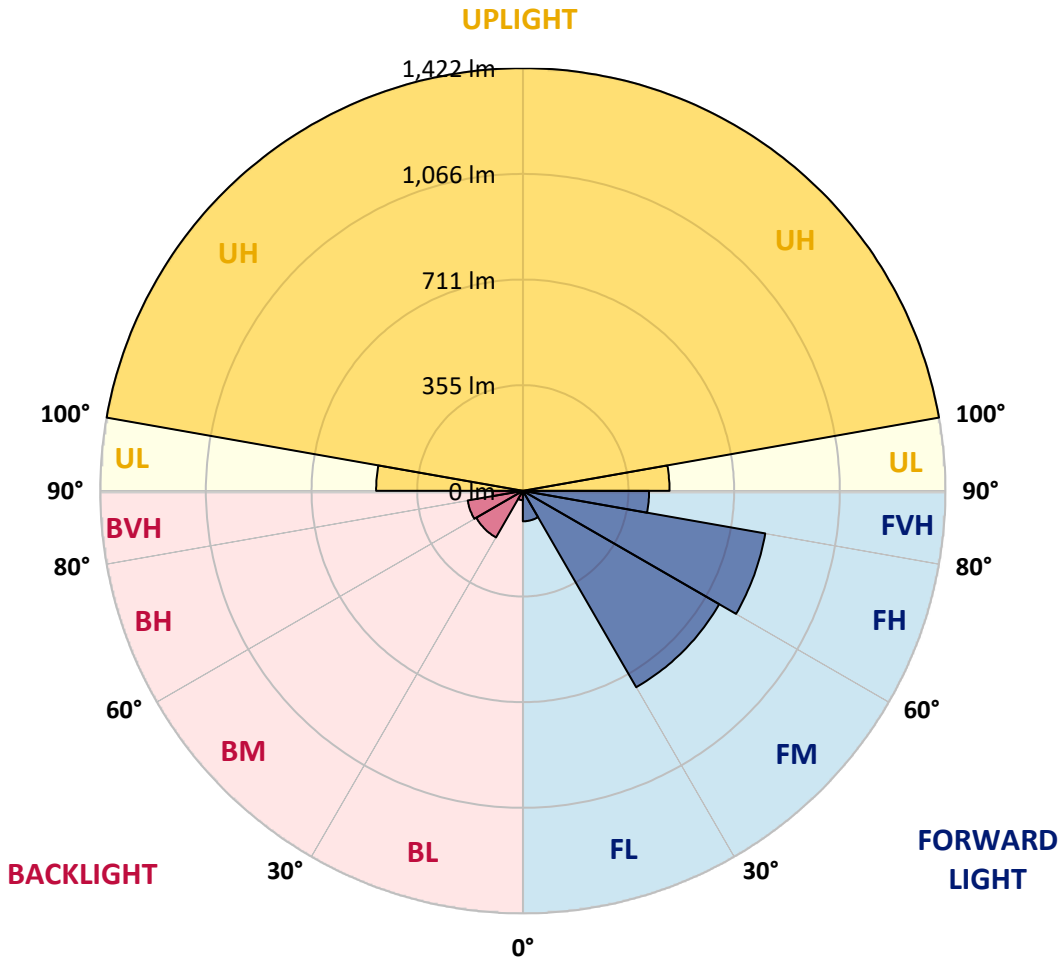
Scaled Data Report

REPORT NUMBER: P1224047
CATALOG NUMBER: FFX-CLB-30-740-U-VM8-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	102.6	2.3			
FM	(30°-60°)	763.1	16.8			
FH	(60°-80°)	828.3	18.3			G1/1800
FVH	(80°-90°)	424.8	9.4			G3/500
BL	(0°-30°)	31.4	0.7	B0/110		
BM	(30°-60°)	181.1	4.0	B0/220		
BH	(60°-80°)	188.5	4.2	B1/500		G1/500
BVH	(80°-90°)	101.6	2.2			G2/225
UL	(90°-100°)	493.6	10.9		U3/500	
UH	(100°-180°)	1422.0	31.3		U5	

BUG Rating: B1-U5-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1224047
CATALOG NUMBER: FFX-CLB-30-740-U-VM8-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
2.5°	40.9	41.2	40.9	41.5	40.0	40.0	38.8	37.5	36.0	34.1	32.9
5°	60.8	60.5	60.5	60.8	59.8	57.1	54.0	49.6	45.9	41.9	39.7
7.5°	87.4	86.2	85.0	84.7	81.5	77.5	73.2	68.2	62.9	57.4	53.3
10°	115.3	116.3	115.0	111.6	107.9	103.3	97.7	90.9	84.0	76.3	71.6
12.5°	151.3	148.8	145.7	142.3	138.6	134.3	125.3	117.5	107.9	98.3	92.1
15°	186.4	184.2	184.2	179.8	174.0	167.4	159.1	149.5	136.1	120.9	115.3
17.5°	222.3	222.6	219.5	214.6	209.3	200.9	191.9	178.3	164.6	148.8	139.2
20°	264.5	263.3	261.1	257.4	248.1	240.6	229.5	214.3	195.7	176.4	164.6
22.5°	308.2	308.8	308.8	302.9	294.3	284.0	271.3	254.0	231.9	207.1	192.9
25°	362.8	362.5	356.6	349.8	342.9	332.4	316.3	295.2	271.0	241.2	224.5
27.5°	412.4	412.1	410.8	404.6	394.4	380.8	361.9	338.9	311.3	275.7	255.8
30°	467.6	468.8	465.4	460.2	446.8	432.9	410.8	383.9	351.3	312.9	290.5
32.5°	527.4	525.0	522.2	515.3	500.8	481.2	456.4	428.5	392.9	348.8	324.3
35°	579.2	583.9	579.5	569.0	551.0	530.2	502.9	471.6	432.9	385.7	357.8
37.5°	637.5	636.6	630.1	619.8	602.5	576.1	547.3	511.0	467.6	418.6	387.6
40°	691.8	688.1	684.3	669.1	647.1	620.8	585.1	548.2	503.6	448.4	417.0
42.5°	739.8	739.5	729.6	714.4	686.8	657.7	620.8	579.5	533.0	476.0	440.6
45°	784.2	783.2	773.6	751.0	725.0	689.9	651.5	608.7	559.7	499.5	465.7
47.5°	826.0	823.6	810.2	787.3	754.4	717.5	677.8	632.9	582.3	520.6	485.3
50°	864.2	862.0	846.5	817.4	782.3	742.9	699.5	653.0	603.7	541.7	503.6
52.5°	896.7	893.0	875.0	843.7	803.7	762.2	716.9	670.4	620.5	556.6	519.7
55°	922.8	918.7	899.5	864.5	822.6	777.7	731.8	685.6	633.5	569.9	532.1
57.5°	944.5	941.4	920.3	881.9	837.2	791.0	744.5	697.4	645.6	582.3	542.9
60°	963.4	959.7	935.8	896.1	849.0	801.2	753.8	706.7	655.8	591.9	552.9
62.5°	976.7	973.9	948.8	906.3	857.4	809.0	760.0	714.4	663.6	600.6	560.3
65°	986.3	982.9	957.5	912.5	862.6	812.7	764.6	717.8	668.5	605.9	565.9
67.5°	991.9	989.4	962.8	916.9	864.8	814.6	766.8	721.2	672.6	610.2	570.2
70°	995.6	991.9	965.0	917.8	864.2	814.3	766.8	721.5	674.7	613.3	572.7
72.5°	996.6	992.5	964.6	916.3	862.3	811.2	765.3	721.9	675.3	614.9	575.2
73°	996.9	992.5	964.3	915.6	861.4	810.8	765.0	721.2	674.7	614.6	575.2
75°	993.5	990.7	961.9	911.9	858.3	807.7	762.8	719.7	674.7	614.9	574.9
77.5°	990.1	985.7	955.6	906.7	851.2	802.2	758.1	716.6	672.6	614.3	574.6
80°	982.0	977.7	947.6	896.7	842.2	794.1	751.6	711.6	668.5	610.8	572.1
82.5°	972.7	967.7	936.4	885.3	831.3	783.9	743.2	705.1	663.2	606.8	568.4
85°	959.1	955.3	923.4	871.3	818.9	773.3	733.6	697.4	656.4	600.6	562.8
87.5°	943.2	940.1	907.0	855.5	803.1	759.7	722.5	687.1	648.7	593.8	556.6
90°	926.8	923.1	889.9	837.5	787.6	744.8	709.4	676.3	639.1	585.4	548.5
92.5°	907.9	903.6	870.1	819.2	770.5	729.6	696.7	664.2	628.2	575.8	540.1
95°	885.0	880.9	847.7	796.9	749.1	711.9	680.0	649.9	615.5	564.3	529.9
97.5°	860.5	856.7	823.2	774.6	728.4	691.8	662.0	634.7	601.9	553.2	518.4
100°	834.1	829.1	796.0	749.1	703.6	670.4	643.7	619.2	587.0	539.2	506.0
102.5°	806.2	801.5	769.9	724.0	681.2	649.0	624.8	600.9	571.5	526.5	493.9
105°	774.6	772.1	740.1	695.8	655.8	626.0	603.4	582.6	554.7	511.0	481.2
107.5°	743.2	738.3	708.5	666.0	628.5	601.5	582.0	562.8	537.4	495.5	467.3

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

Scaled Data Report

REPORT NUMBER: P1224047
CATALOG NUMBER: FFX-CLB-30-740-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*710.1*	705.1	678.4	637.8	603.1	577.4	559.4	542.3	519.4	480.3	453.6
112.5°	*676.6*	671.0	644.6	607.4	573.6	552.6	536.1	521.9	501.1	465.1	438.8
115°	*640.3*	638.1	612.4	576.7	547.0	527.1	512.9	499.8	480.3	448.7	424.5
117.5°	*604.6*	600.6	578.3	545.4	517.8	499.2	488.4	476.9	459.2	429.5	408.4
120°	*566.2*	565.3	543.9	513.2	487.4	472.9	462.3	452.7	437.2	410.2	390.4
122.5°	*529.9*	528.1	507.6	480.0	458.6	445.0	436.6	428.2	414.9	389.8	371.2
125°	*491.5*	489.3	473.2	450.5	430.1	417.0	409.0	402.5	390.4	367.7	350.4
127.5°	*455.8*	453.6	439.1	417.4	401.2	389.5	382.0	376.1	364.0	344.5	329.3
130°	*420.5*	416.7	404.0	386.7	370.5	362.5	355.0	350.7	338.3	320.0	306.7
132.5°	*382.6*	380.8	371.8	355.7	342.6	334.3	327.7	322.2	312.6	295.8	283.7
135°	*349.1*	347.3	338.9	325.3	316.3	308.5	302.6	296.7	286.8	270.7	260.5
137.5°	*317.2*	315.7	308.2	298.9	287.4	282.8	278.8	271.6	262.9	248.4	239.1
140°	*283.7*	284.3	278.4	270.1	262.9	257.4	253.3	247.4	238.8	226.4	217.1
142.5°	*256.1*	257.1	249.9	244.0	237.5	233.2	229.1	224.2	215.8	204.6	197.5
145°	*230.1*	227.9	225.1	219.5	213.3	210.5	206.5	202.2	195.7	184.5	178.6
147.5°	*203.7*	203.1	200.3	196.6	191.6	187.3	184.2	181.7	175.2	165.9	160.6
150°	*179.8*	179.2	177.7	174.9	170.5	167.8	165.3	161.9	155.7	148.5	143.9
152.5°	*158.8*	158.8	157.8	154.1	152.2	149.1	146.0	144.2	138.0	132.1	128.1
155°	*140.5*	140.5	139.2	137.4	134.0	132.1	130.2	127.4	123.1	118.4	114.7
157.5°	*124.6*	125.0	123.4	121.9	119.4	117.8	116.0	113.2	110.4	106.0	103.3
160°	*110.7*	111.0	110.4	109.1	106.7	105.1	103.6	101.4	98.9	95.5	93.0
162.5°	*99.5*	99.2	98.6	97.4	95.8	94.9	93.0	91.5	89.3	86.8	84.7
165°	*90.9*	89.9	89.6	88.7	87.1	86.2	84.7	83.4	81.9	79.4	78.4
167.5°	*83.1*	83.1	82.5	81.9	80.6	79.4	78.1	77.2	76.0	74.4	73.2
170°	*76.9*	76.9	76.3	75.7	74.4	73.8	72.9	71.9	71.0	69.8	69.1
172.5°	*71.9*	71.9	71.6	70.7	70.1	69.1	68.8	67.9	67.0	66.4	65.7
175°	*68.2*	68.2	67.6	67.0	66.4	65.7	65.1	64.8	64.5	63.9	63.6
177.5°	*65.4*	65.1	64.8	64.2	63.6	63.3	62.9	62.6	62.6	62.3	62.0
180°	*61.7*	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7

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

Scaled Data Report

REPORT NUMBER: P1224047
CATALOG NUMBER: FFX-CLB-30-740-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
2.5°	31.6	28.8	25.7	22.9	21.4	19.2	18.0	17.4	18.0	17.1
5°	37.5	32.6	27.6	23.9	19.8	16.7	14.0	11.2	9.3	9.0
7.5°	49.9	44.3	37.5	31.3	25.7	20.8	16.4	13.0	10.5	10.2
10°	66.0	57.7	49.0	40.3	32.2	25.7	20.5	16.7	15.5	15.2
12.5°	86.2	74.1	62.0	50.5	40.6	31.9	26.0	22.0	20.2	19.8
15°	107.3	92.1	76.6	61.7	48.4	37.8	30.4	26.0	23.9	23.6
17.5°	129.9	110.1	89.0	71.6	55.8	43.1	33.8	27.9	25.4	24.8
20°	152.9	128.1	103.9	81.2	62.0	46.5	35.7	28.8	25.7	25.1
22.5°	178.6	148.8	118.8	90.5	67.6	49.9	37.2	29.5	26.0	25.4
25°	207.7	169.9	134.3	101.4	73.8	53.0	38.8	30.4	26.4	25.7
27.5°	237.5	193.5	150.1	111.0	79.1	55.2	40.0	30.7	26.7	26.0
30°	267.6	217.1	166.2	120.3	83.7	57.7	40.6	31.0	26.7	26.4
32.5°	298.9	239.1	181.7	129.0	87.8	59.2	41.2	31.3	27.0	26.4
35°	327.1	262.3	196.3	137.4	91.5	60.5	41.5	31.3	27.0	26.4
37.5°	354.1	282.2	209.6	144.2	94.3	61.4	41.9	31.3	27.0	26.4
40°	382.3	303.3	221.7	150.4	96.4	62.0	41.9	31.3	27.0	26.7
42.5°	405.3	320.9	231.9	154.7	98.0	62.0	41.9	31.3	27.3	26.7
45°	426.0	335.5	241.9	158.8	98.9	62.0	41.5	31.6	27.3	27.0
47.5°	444.0	350.1	249.3	161.5	99.2	62.0	41.5	31.6	27.6	27.3
50°	460.8	361.9	255.8	163.7	99.5	61.7	41.5	31.9	27.9	27.3
52.5°	475.0	371.5	261.1	165.0	98.9	61.1	41.5	32.2	28.5	27.9
55°	487.1	380.5	264.8	165.6	98.3	60.8	41.5	32.6	28.8	28.5
57.5°	497.0	387.6	268.2	165.9	97.7	60.5	41.9	33.2	29.8	29.5
60°	506.0	393.5	270.7	165.9	97.1	60.2	42.2	33.8	30.4	30.1
62.5°	513.2	398.1	272.6	165.6	96.7	60.2	42.8	34.7	31.3	31.0
65°	518.1	401.5	273.5	165.0	96.1	60.5	43.4	35.7	32.6	32.2
67.5°	522.8	404.6	274.1	164.6	95.8	60.8	44.3	36.9	33.8	33.5
70°	525.6	406.5	274.4	164.3	95.5	61.4	45.3	38.1	35.3	35.0
72.5°	526.8	407.7	274.7	163.7	95.8	62.0	46.5	39.4	36.9	36.6
73°	*527.1*	*407.7*	*274.4*	*163.7*	*95.8*	*62.3*	*46.8*	*40.0*	*37.2*	*36.9*
75°	527.7	407.7	274.1	163.4	96.1	62.9	47.8	41.2	38.4	38.4
77.5°	526.8	407.1	273.5	163.1	96.4	64.2	49.3	42.8	40.3	40.0
80°	525.0	405.6	272.6	163.1	97.1	65.4	51.2	44.7	42.2	41.9
82.5°	520.9	402.8	271.3	162.8	98.0	67.0	53.0	46.5	44.3	44.0
85°	516.9	399.4	269.5	162.8	99.2	68.8	54.9	48.7	46.5	46.2
87.5°	510.7	395.3	267.6	162.5	100.5	70.4	56.7	50.9	48.4	48.4
90°	503.6	391.0	265.7	162.8	101.7	72.6	59.2	53.3	50.9	50.5
92.5°	496.4	386.0	263.6	163.4	103.9	74.7	61.7	55.8	53.3	52.7
95°	486.8	379.2	261.1	163.7	105.7	77.2	64.2	58.3	55.8	55.8
97.5°	476.9	373.0	258.3	164.6	108.2	80.3	67.6	61.4	58.9	58.9
100°	466.4	366.5	256.4	165.6	110.7	83.7	70.7	64.5	62.0	62.0
102.5°	455.2	359.4	254.6	167.4	114.4	87.1	74.4	68.2	65.4	65.4
105°	443.7	352.6	252.7	169.6	118.1	91.5	78.4	72.2	69.5	69.5
107.5°	432.6	346.0	251.2	172.4	122.2	95.8	82.5	76.3	73.5	72.9

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

Scaled Data Report

REPORT NUMBER: P1224047
CATALOG NUMBER: FFX-CLB-30-740-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	420.8	339.2	249.9	175.2	126.8	100.8	87.4	80.3	77.2	77.2
112.5°	408.1	332.1	249.0	178.0	131.8	105.7	91.8	84.7	81.5	80.9
115°	394.7	325.0	247.1	181.1	136.1	110.7	96.4	88.4	85.0	84.7
117.5°	381.7	316.6	245.0	183.3	140.2	114.7	100.2	92.1	88.4	88.1
120°	366.5	307.3	241.2	183.9	143.3	117.8	103.3	94.6	90.9	90.2
122.5°	349.8	295.2	236.0	183.3	144.8	120.0	105.1	96.4	92.1	91.8
125°	330.8	281.9	229.1	181.1	145.1	120.9	105.7	96.7	92.7	92.1
127.5°	311.0	268.5	220.2	176.7	143.3	120.3	105.1	96.1	91.8	91.5
130°	290.5	252.7	209.6	171.2	140.2	118.1	103.6	94.6	90.2	89.9
132.5°	270.1	236.0	198.1	163.7	135.8	114.7	100.8	92.1	88.1	87.4
135°	248.1	219.5	186.4	156.0	129.9	111.0	97.4	89.0	85.0	84.7
137.5°	227.9	202.5	174.3	147.3	124.3	106.0	93.6	85.9	82.5	81.9
140°	208.1	186.0	161.2	138.0	117.2	101.1	89.3	82.5	79.1	78.8
142.5°	189.8	170.9	149.8	129.0	110.7	96.1	85.6	79.1	76.3	75.7
145°	170.9	155.0	137.7	119.7	103.6	90.9	81.5	75.7	73.2	72.6
147.5°	154.4	140.5	125.6	110.4	97.1	85.6	77.5	72.6	70.4	70.1
150°	138.9	127.1	114.1	101.7	89.9	80.6	73.8	69.5	67.6	67.3
152.5°	125.0	114.7	104.2	93.6	83.7	76.3	70.4	66.7	65.1	65.1
155°	111.9	103.6	95.2	86.5	78.8	72.6	67.9	64.8	63.6	63.3
157.5°	100.8	94.3	87.4	80.3	74.4	69.1	65.4	63.3	62.0	62.0
160°	91.2	86.2	80.6	75.3	70.7	66.4	63.6	61.7	60.8	60.8
162.5°	83.4	79.4	75.0	71.0	67.0	64.2	62.0	60.8	60.2	60.2
165°	76.9	74.1	71.0	67.6	64.8	62.6	61.1	60.2	59.8	59.8
167.5°	72.2	69.8	67.3	65.1	63.3	61.4	60.5	59.8	59.8	59.5
170°	68.2	66.7	64.5	62.9	61.4	60.5	59.8	59.5	59.5	59.2
172.5°	65.1	63.9	62.6	61.4	60.5	59.8	59.5	59.5	59.5	59.5
175°	63.3	62.3	61.4	60.8	60.2	59.5	59.5	59.8	59.8	59.8
177.5°	61.7	61.4	60.8	60.5	60.2	60.2	60.2	60.5	60.8	60.8
180°	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7

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: SP1-2501-332-1

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

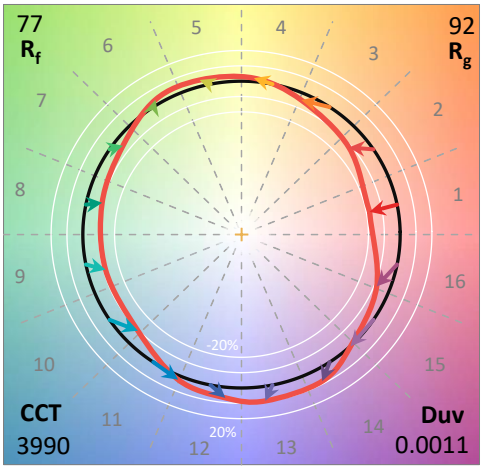
Test Information

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

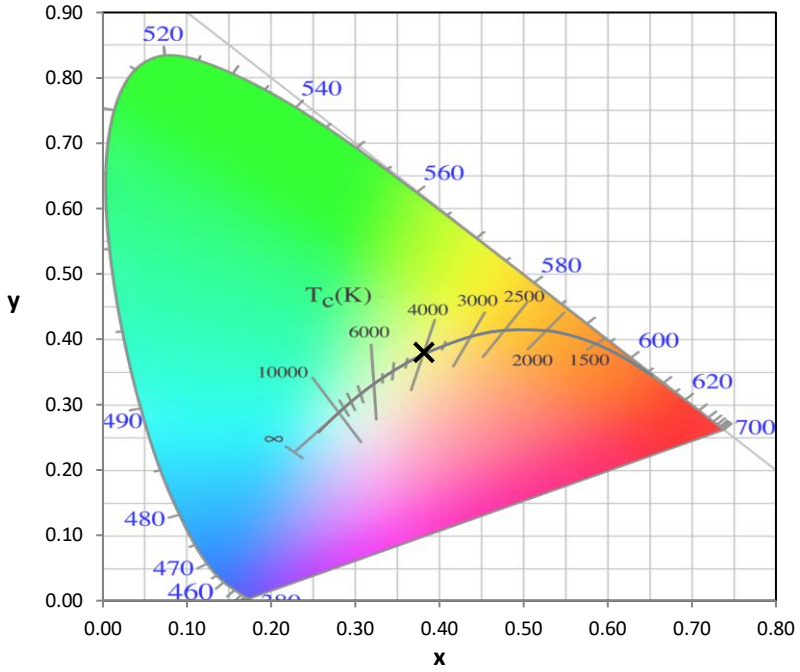
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

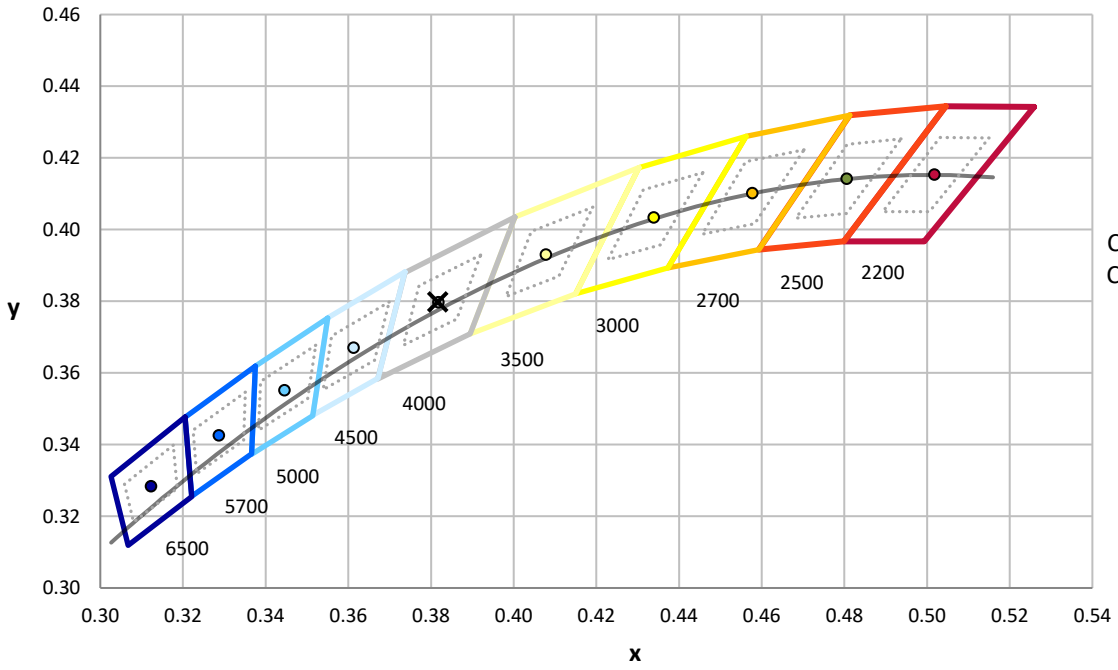
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

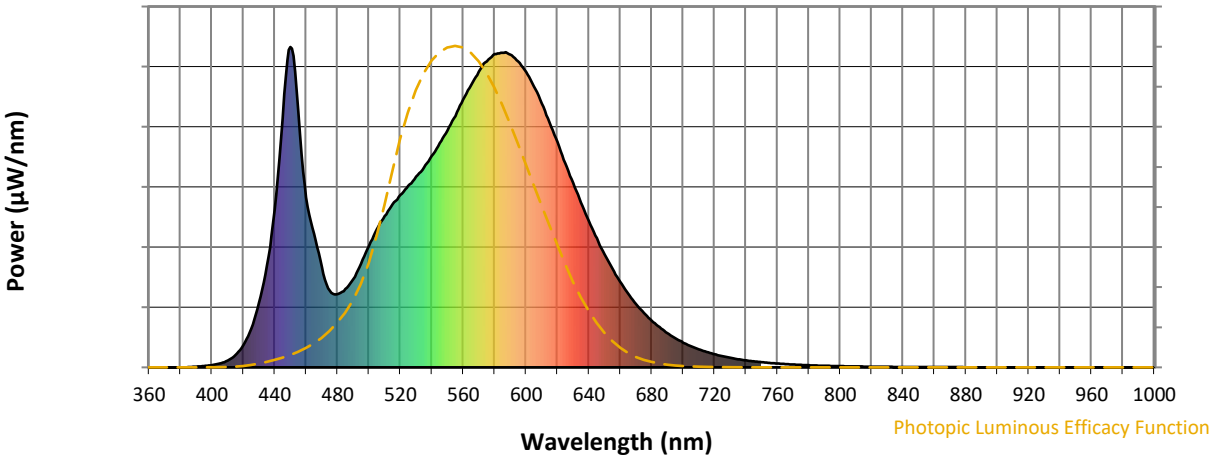


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

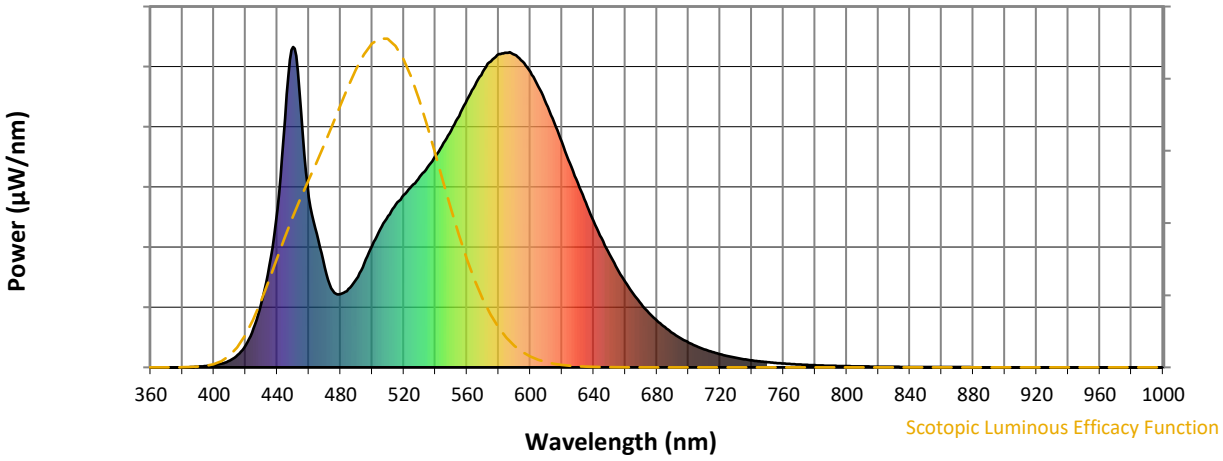


Photopic Lumens: NR

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

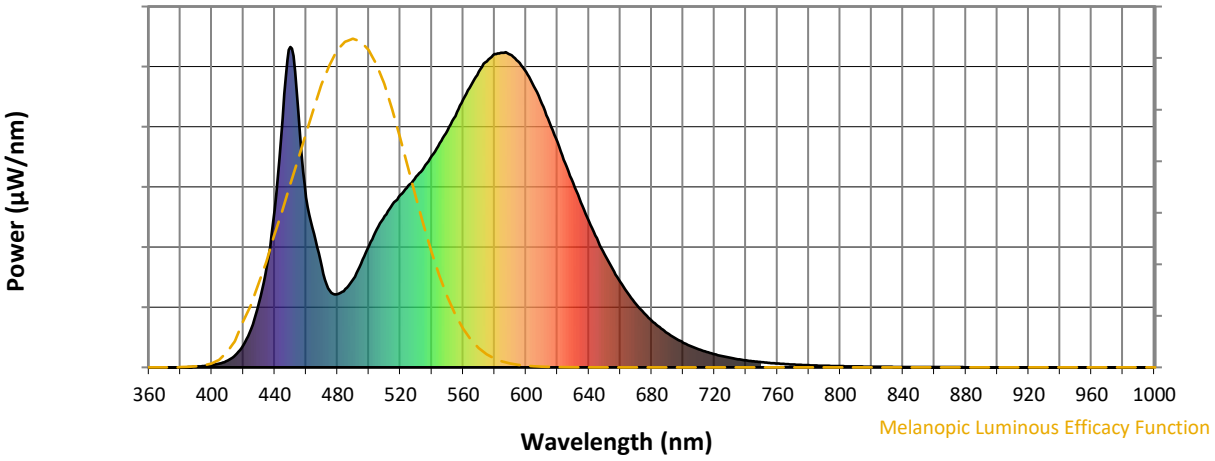


Scotopic Lumens: NR **S/P: 1.59**

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			

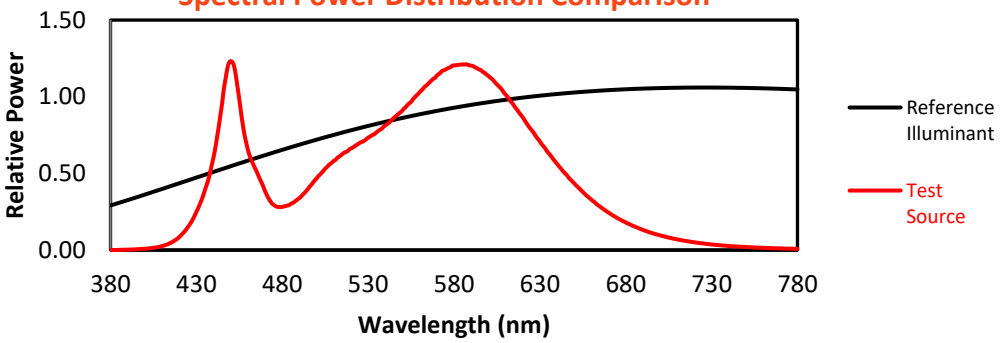
REPORT NUMBER: SP1-2501-332-1

TM-30-18

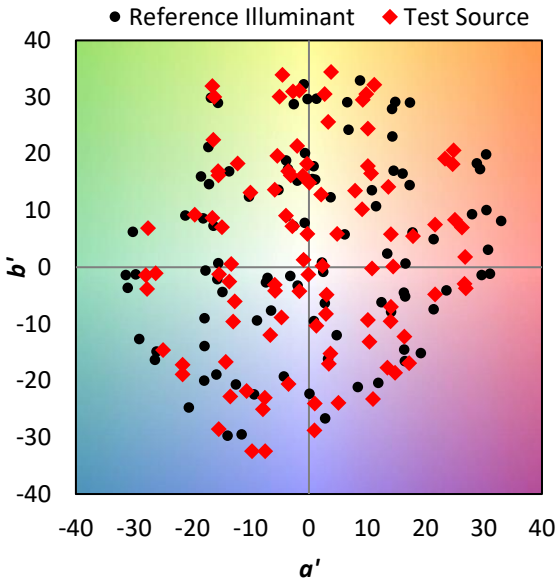
Summary

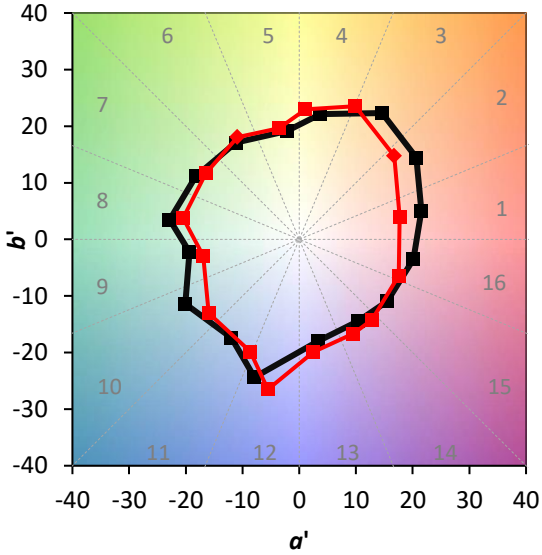
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

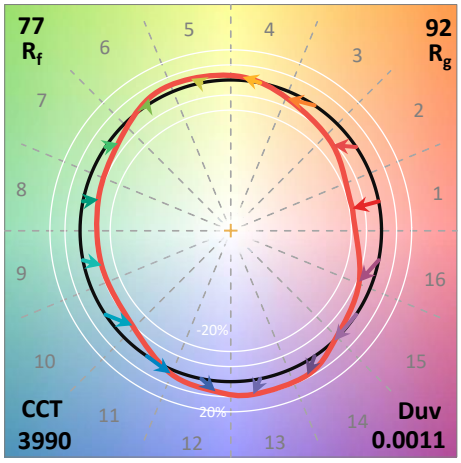
Spectral Power Distribution Comparison

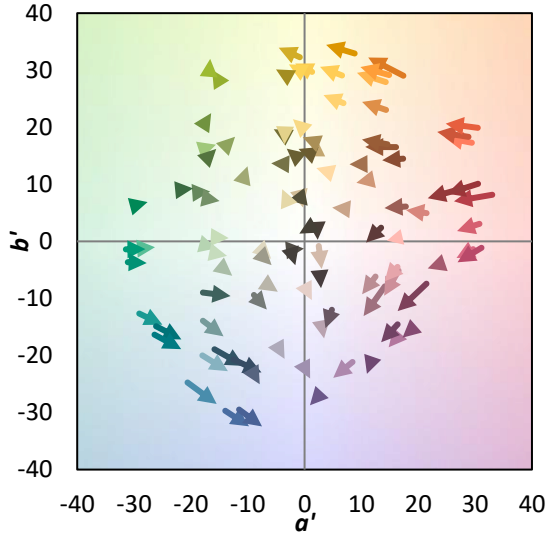


Color Vector Graphics







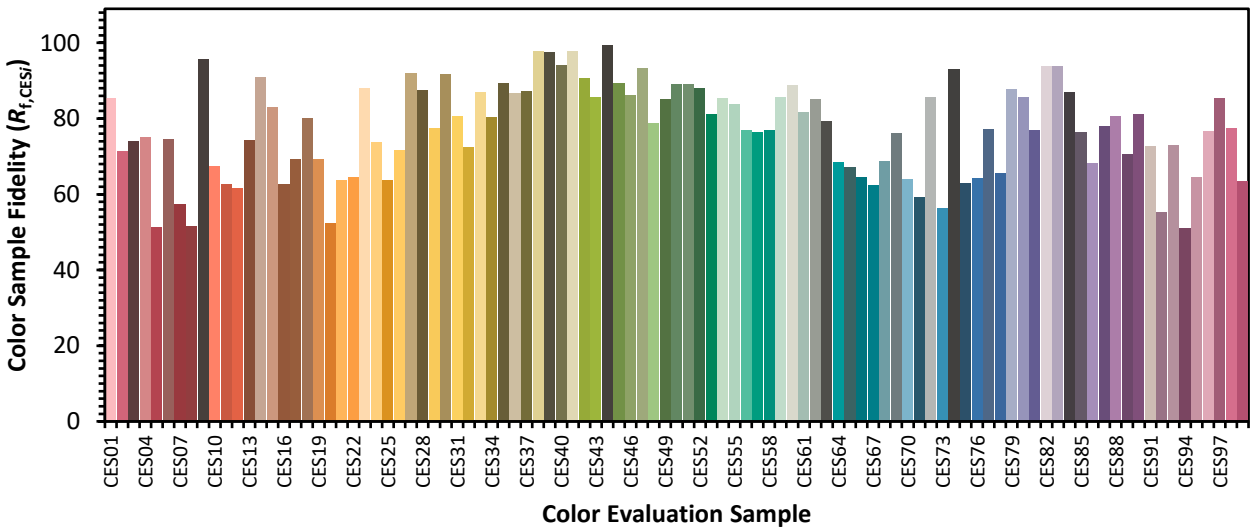


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

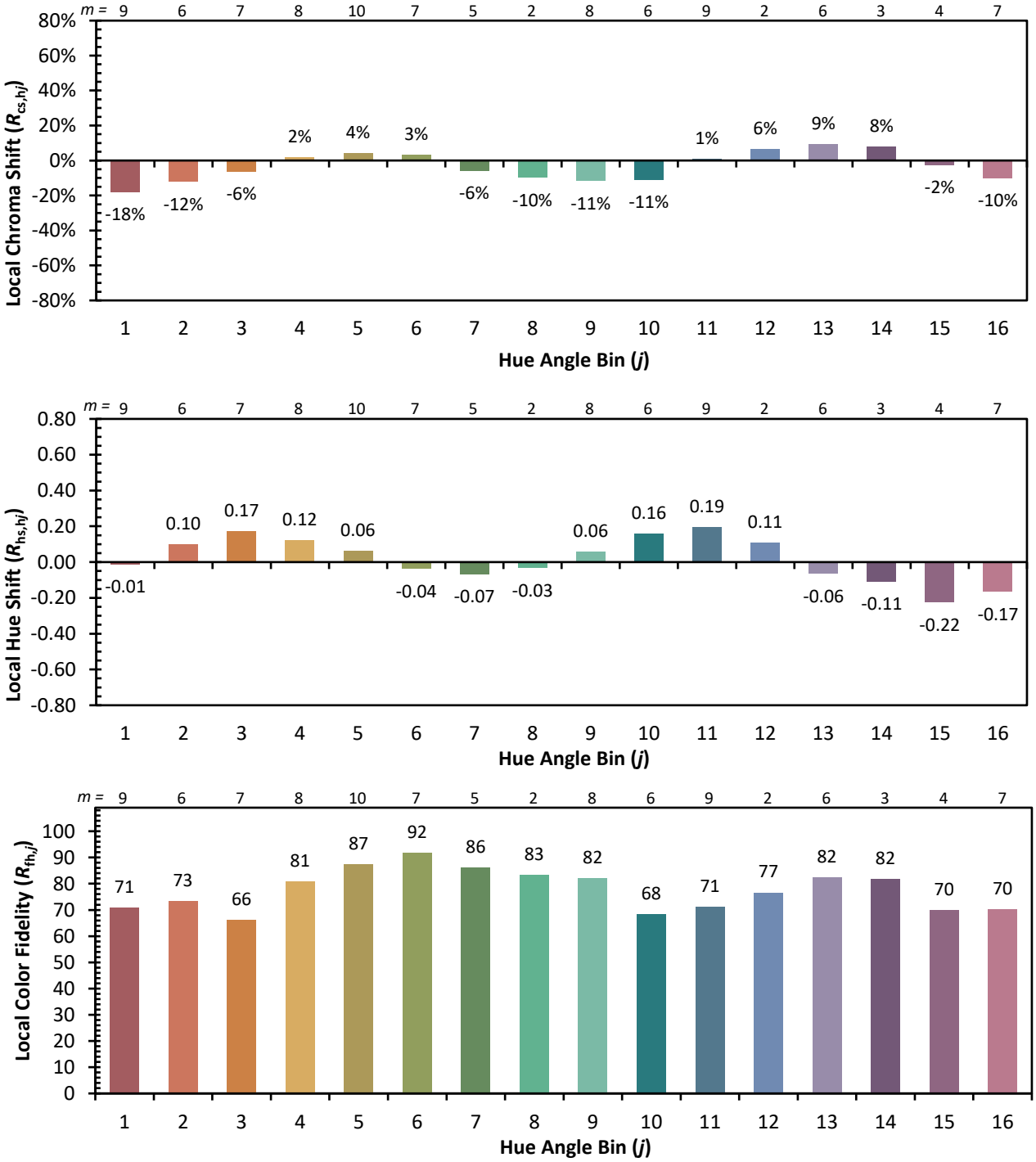
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 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

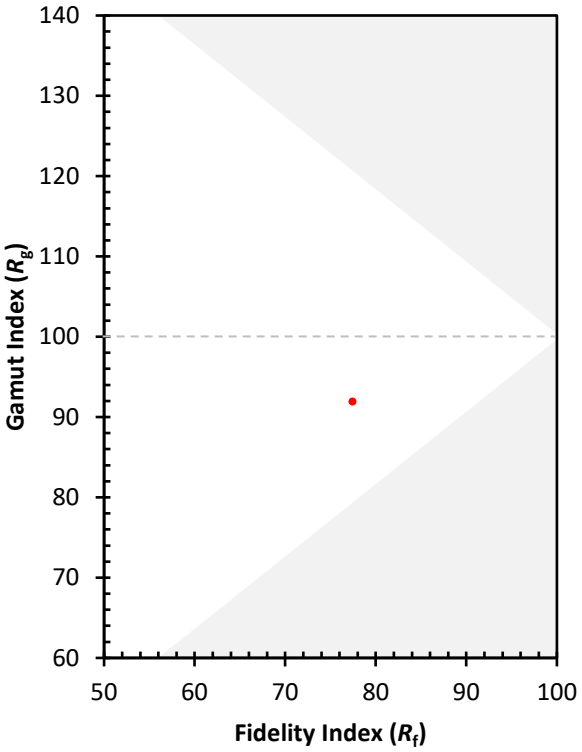
Color Rendition by Hue-Angle Bin

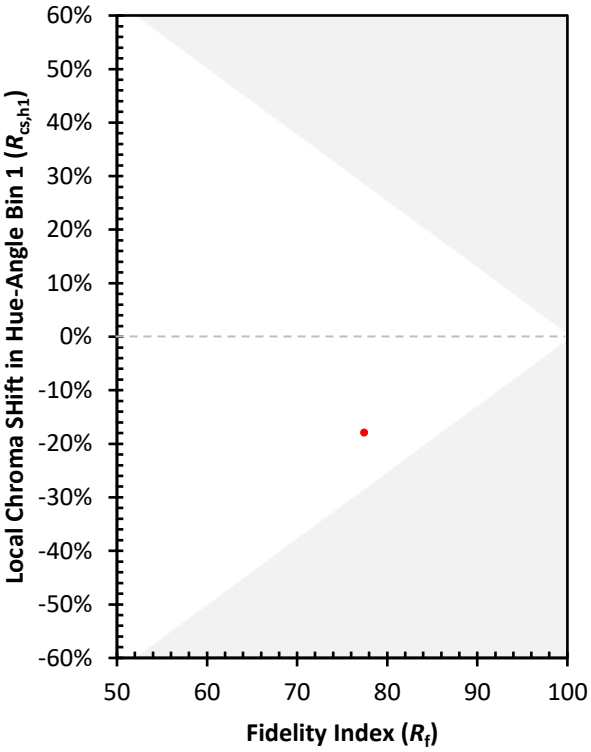


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)