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: P981437

Luminaire Tested: **FFX-CLB-60-740-U-FR-T3**

Issue Date: 04/15/2025

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:	P981437
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-740-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9797.1 lumens
Efficiency:	N/A
Efficacy:	161.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U5 - G3

Input Watts (W):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

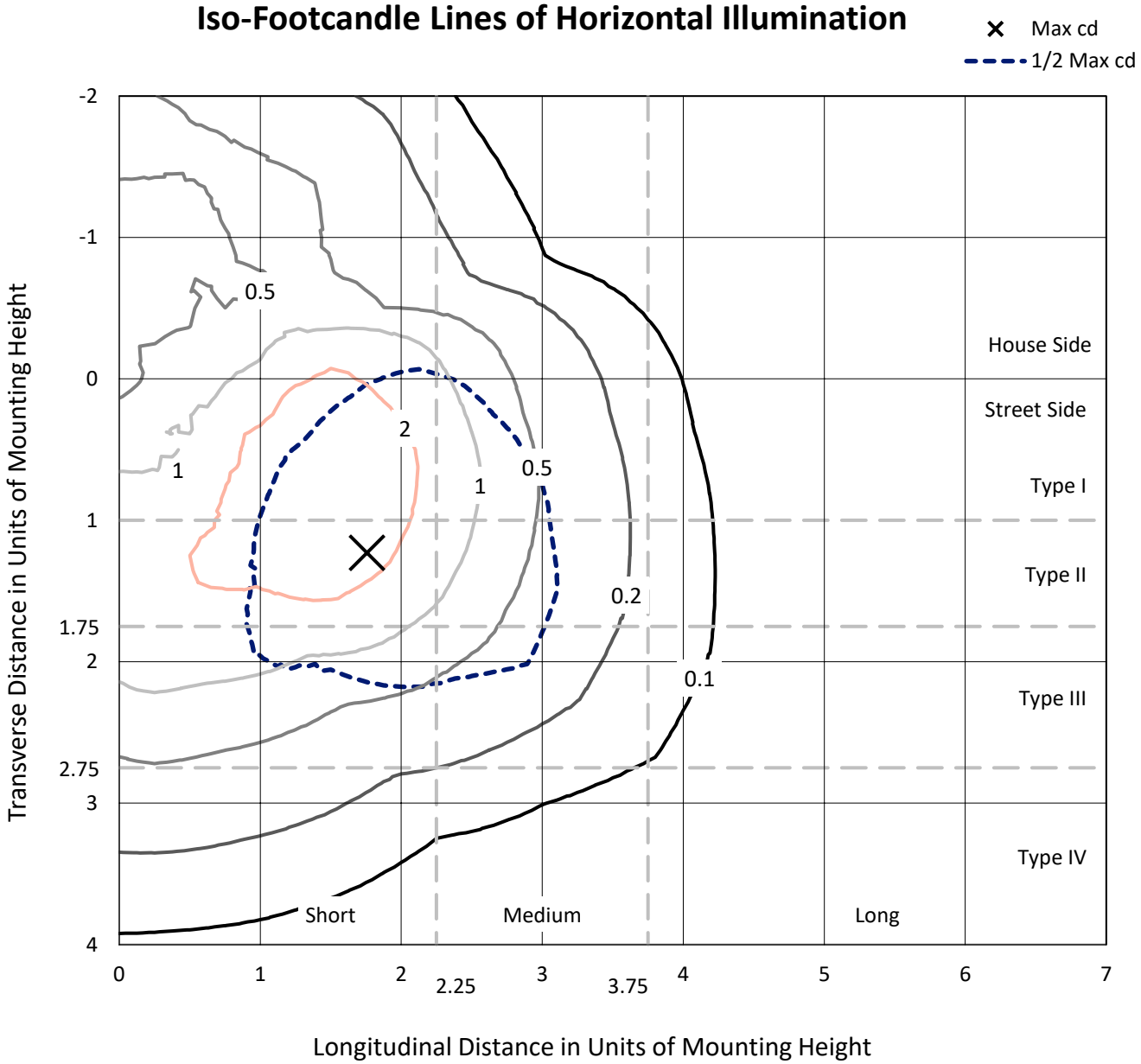


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P981437
CATALOG NUMBER: FFX-CLB-60-740-U-FR-T3

Iso-Footcandle Lines of Horizontal Illumination



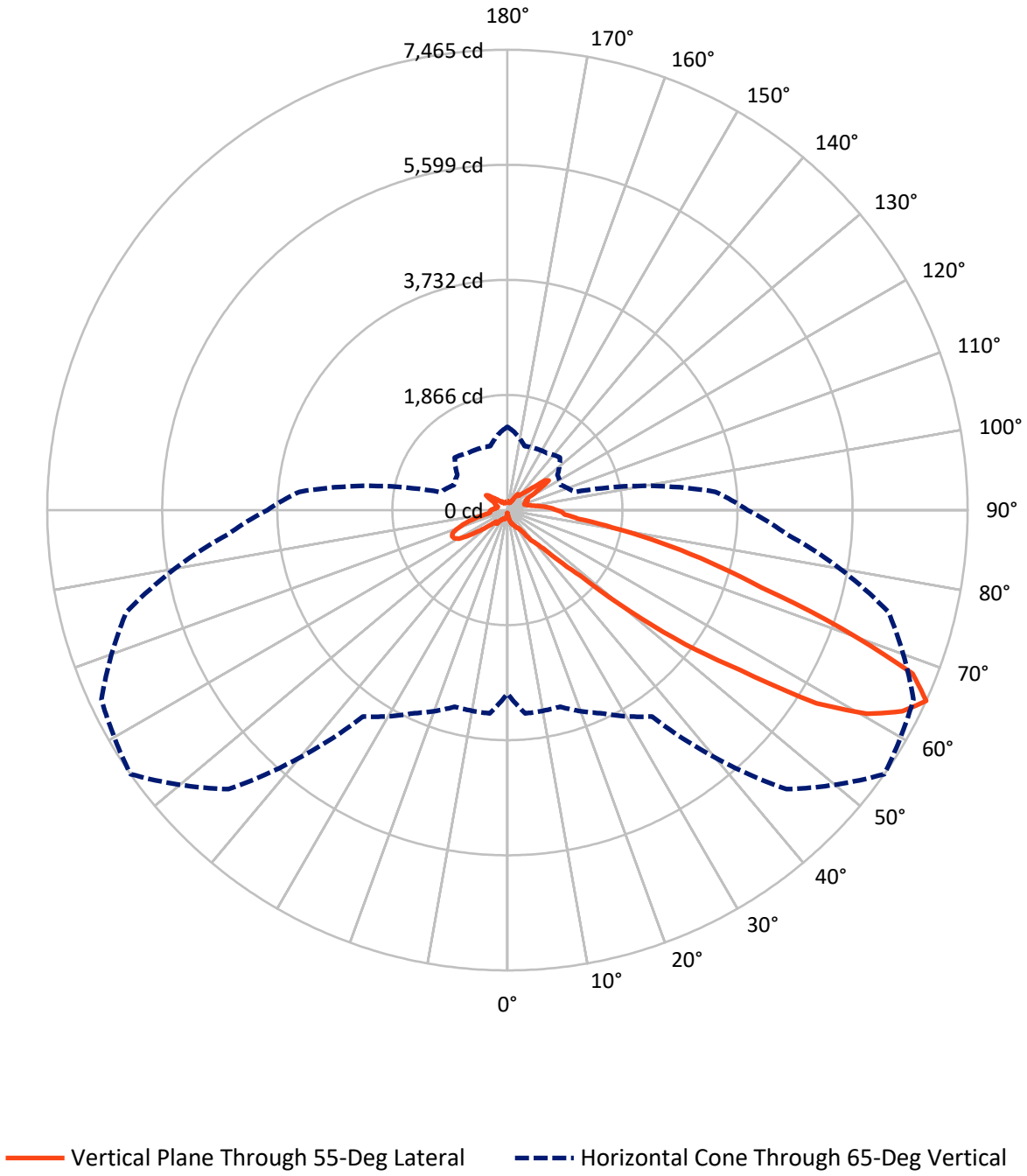
Based on 15 foot mounting height. Maximum calculated value = 4 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P981437
CATALOG NUMBER: FFX-CLB-60-740-U-FR-T3

Luminous Intensity Polar Plot



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

Scaled Data Report

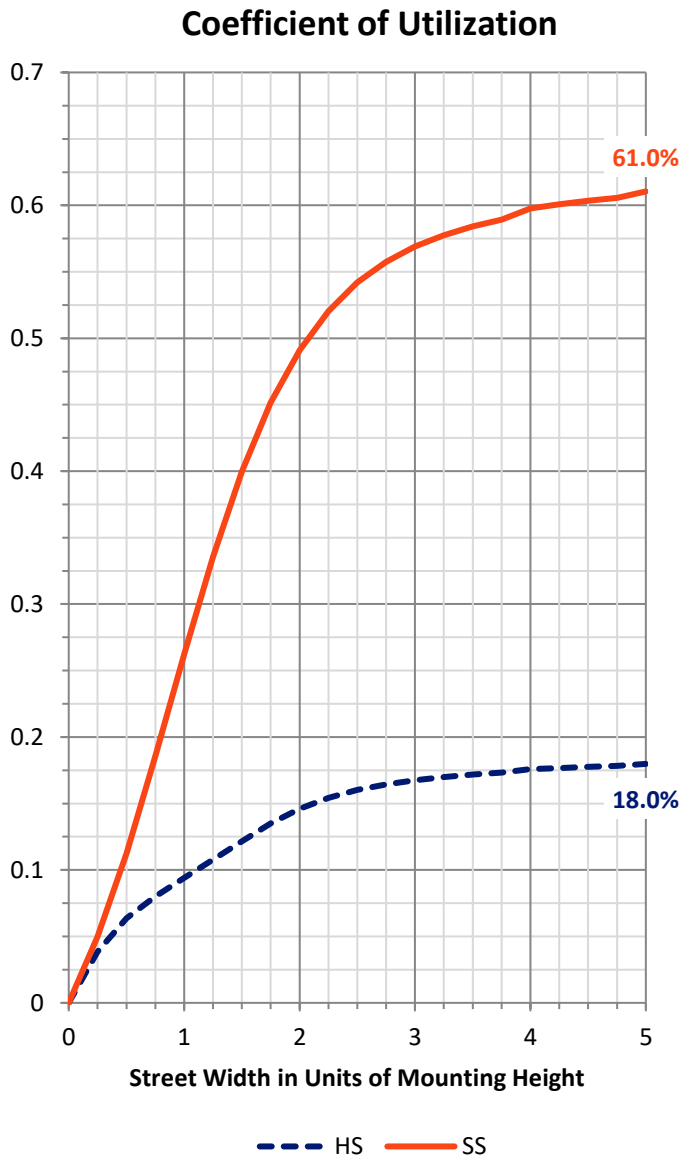
REPORT NUMBER: P981437
CATALOG NUMBER: FFX-CLB-60-740-U-FR-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1836.4	657.9	2494.3
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	6174.2	1128.6	7302.8
	% Fixture	63.0	11.5	74.5
Total	Lumens	8010.6	1786.5	9797.1
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.1	0.1
10°-20°	49.8	0.5
20°-30°	102.3	1.0
30°-40°	214.2	2.2
40°-50°	565.6	5.8
50°-60°	1882.1	19.2
60°-70°	3036.0	31.0
70°-80°	1592.6	16.3
80°-90°	558.8	5.7
90°-100°	360.8	3.7
100°-110°	233.9	2.4
110°-120°	256.6	2.6
120°-130°	431.6	4.4
130°-140°	252.9	2.6
140°-150°	135.3	1.4
150°-160°	67.2	0.7
160°-170°	35.4	0.4
170°-180°	12.8	0.1
0°-90°	8010.6	81.8
0°-180°	9797.1	100.0



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

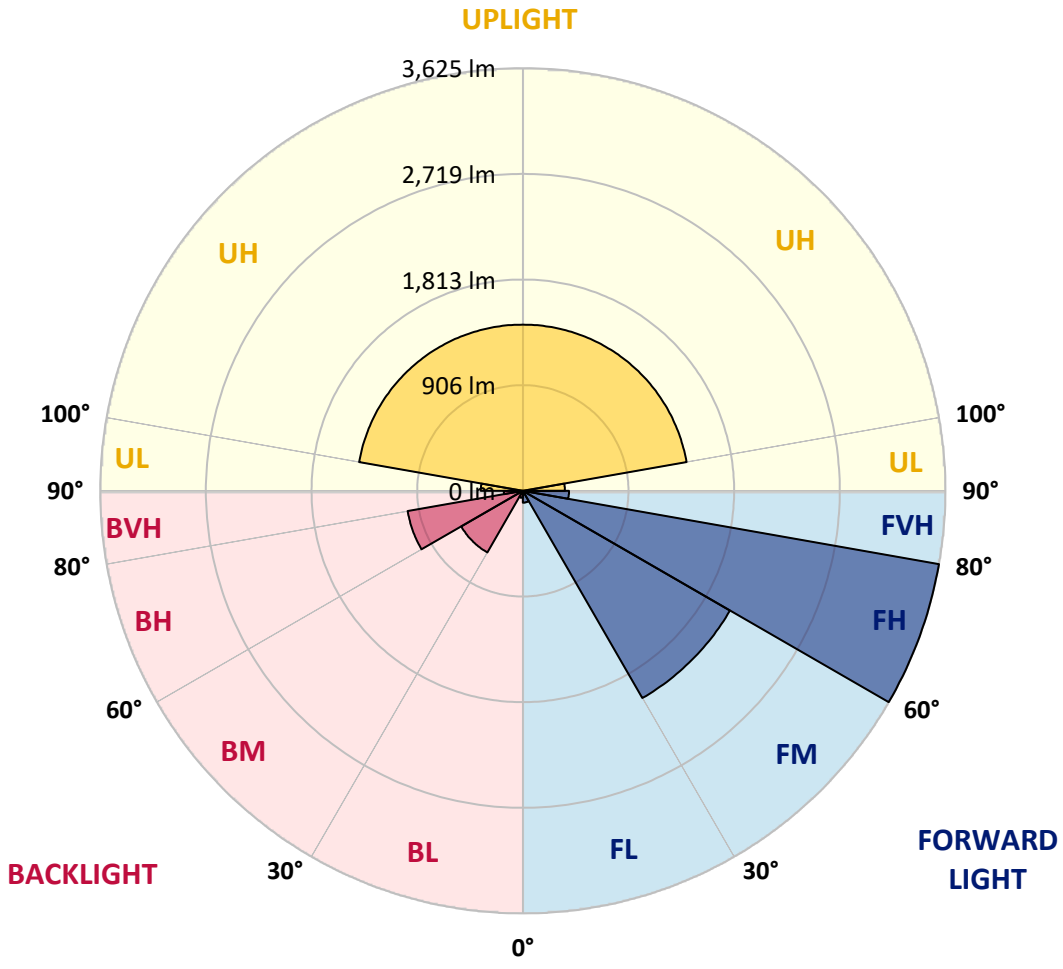
Scaled Data Report

REPORT NUMBER: P981437
CATALOG NUMBER: FFX-CLB-60-740-U-FR-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	101.6	1.0			
FM	(30°-60°)	2051.8	20.9			
FH	(60°-80°)	3625.1	37.0			G2/5000
FVH	(80°-90°)	395.7	4.0			G3/500
BL	(0°-30°)	59.5	0.6	B0/110		
BM	(30°-60°)	610.2	6.2	B1/1000		
BH	(60°-80°)	1003.5	10.2	B3/2500		G3/2500
BVH	(80°-90°)	163.2	1.7			G2/225
UL	(90°-100°)	360.8	3.7		U3/500	
UH	(100°-180°)	1425.7	14.6		U5	

BUG Rating: B3-U5-G3
Type III Short



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

Scaled Data Report

REPORT NUMBER: P981437
CATALOG NUMBER: FFX-CLB-60-740-U-FR-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	55.5	55.5	55.5	55.5	55.5	55.5	*55.5*	55.5	55.5	55.5	55.5
2.5°	55.5	56.8	60.0	61.3	61.9	60.6	*58.1*	60.6	60.6	60.6	60.0
5°	80.6	80.6	80.6	82.6	83.2	84.5	*83.2*	80.0	77.4	74.8	74.2
7.5°	112.9	114.2	114.8	114.8	114.8	117.4	*120.0*	114.2	109.0	103.9	102.6
10°	161.9	158.7	155.5	156.8	154.2	149.0	*151.6*	147.1	135.5	131.6	131.6
12.5°	207.1	206.4	207.7	200.6	196.8	185.8	*187.1*	184.5	176.1	162.6	158.1
15°	232.2	234.2	233.5	236.1	230.3	214.8	*211.0*	212.2	204.5	191.6	185.2
17.5°	245.2	245.2	245.8	249.0	249.0	234.2	*227.7*	224.5	218.1	207.1	198.7
20°	251.6	251.6	251.0	255.5	264.5	256.1	*247.1*	241.9	236.1	218.7	205.8
22.5°	269.7	268.4	266.4	267.7	281.3	278.7	*271.6*	263.9	255.5	229.0	212.9
25°	288.4	289.0	283.2	285.1	298.7	302.6	*296.8*	289.0	279.3	239.3	223.2
27.5°	309.7	309.0	301.3	303.9	311.0	325.1	*318.1*	314.2	298.1	247.7	232.2
30°	329.0	325.8	318.1	324.5	324.5	347.1	*340.6*	342.6	322.6	263.2	246.4
32.5°	343.2	342.6	338.1	346.4	341.9	371.0	*369.0*	385.1	355.5	293.5	278.1
35°	375.5	376.1	394.8	411.0	403.2	445.8	*454.8*	475.5	439.3	369.0	352.2
37.5°	607.7	600.0	574.2	544.5	548.4	627.7	*616.7*	627.7	572.2	470.9	444.5
40°	640.0	641.9	612.2	589.7	586.4	687.7	*704.5*	793.5	677.4	564.5	512.2
42.5°	623.2	629.7	710.9	740.0	714.2	843.2	*848.4*	1020.0	790.3	696.1	627.1
45°	790.3	791.6	808.4	827.1	830.3	1151.6	*1169.6*	1359.3	1005.1	876.7	760.0
47.5°	899.3	909.6	932.9	1060.6	1128.3	1472.2	*1592.8*	1894.1	1338.7	1195.4	965.1
50°	1271.6	1299.9	1414.8	1524.5	1630.3	2183.1	*2588.9*	2948.3	2010.9	1752.2	1402.5
52.5°	1549.6	1651.5	1779.9	2044.4	2156.0	2983.7	*3621.1*	3843.7	2816.7	2374.7	1910.9
55°	1790.9	1978.0	2116.7	2549.6	2761.8	3890.2	*4570.1*	4602.4	3779.8	2898.6	2450.2
57.5°	2287.6	2560.5	2650.9	3021.2	3316.6	4969.5	*5913.9*	5755.2	4763.0	3495.3	3025.7
60°	2755.4	3069.5	3036.0	3377.3	3768.2	5897.8	*6709.4*	6628.7	5684.3	4060.5	3528.9
62.5°	2907.6	3226.3	3197.9	3556.6	4082.4	6330.7	*7186.8*	7053.2	6228.1	4414.0	3781.8
65°	*2974.1*	*3310.2*	*3302.4*	*3637.9*	*4086.3*	*6399.7*	*7464.8*	*7266.1*	*6399.1*	*4556.6*	*3892.7*
67.5°	2917.3	3237.3	3234.1	3543.1	3788.2	5899.1	*7088.7*	6795.8	5977.8	4221.1	3653.4
70°	2517.3	2739.9	2726.3	2916.0	3044.4	4688.8	*5752.7*	5531.4	4824.3	3468.9	3026.3
72.5°	2052.8	2118.6	2147.0	2255.4	2289.6	3431.5	*4314.0*	4137.9	3597.3	2598.0	2294.7
75°	1639.3	1642.5	1672.2	1710.2	1698.6	2524.4	*3397.9*	3288.9	2652.8	1938.0	1740.6
77.5°	1085.1	1076.7	1207.0	1222.5	1148.3	1608.3	*2537.3*	2460.5	1898.6	1412.2	1272.8
80°	622.6	625.1	714.2	770.3	740.6	1021.9	*1738.6*	1721.9	1303.8	988.3	874.2
82.5°	464.5	486.4	534.2	563.8	552.2	768.4	*1156.7*	1188.3	926.4	710.9	649.6
85°	517.4	529.7	534.8	536.8	522.6	718.7	*934.2*	932.2	778.7	596.7	576.1
87.5°	503.8	514.2	518.7	521.3	507.1	687.1	*882.5*	869.6	747.1	573.5	543.2
90°	423.9	447.7	447.1	469.7	453.5	603.8	*774.2*	765.8	678.0	528.4	492.9
92.5°	355.5	369.0	378.0	409.0	394.8	531.6	*696.1*	676.7	607.1	480.6	442.6
95°	332.2	344.5	351.6	369.0	351.6	459.3	*586.4*	569.0	503.8	400.6	363.9
97.5°	280.0	283.9	290.3	301.9	290.3	372.2	*474.8*	458.0	404.5	327.1	301.3
100°	237.4	241.3	249.7	258.1	252.2	318.7	*397.4*	388.4	347.7	284.5	267.1
102.5°	224.5	227.1	238.1	243.2	236.1	292.9	*351.0*	351.0	314.8	262.6	248.4
105°	214.2	217.4	225.8	227.7	222.6	269.7	*323.9*	320.6	292.2	245.8	232.2
107.5°	203.9	207.7	214.8	211.6	209.0	248.4	*291.0*	296.1	271.6	233.5	224.5
110°	214.8	216.1	221.9	216.8	221.3	247.1	*292.2*	293.5	286.4	254.8	245.2

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

Scaled Data Report

REPORT NUMBER: P981437
CATALOG NUMBER: FFX-CLB-60-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	292.2	285.1	297.4	278.1	292.9	311.0	*339.3*	349.7	341.3	305.1	296.8
115°	320.0	325.1	338.1	318.7	328.4	350.3	*363.9*	365.8	356.1	332.9	329.7
117.5°	249.7	275.5	261.9	273.5	277.4	307.7	*338.7*	347.7	338.7	306.4	326.4
120°	319.3	340.0	293.5	279.3	298.7	351.6	*380.0*	387.7	363.2	363.9	376.1
122.5°	529.7	541.3	570.3	585.1	562.6	594.8	*604.5*	611.6	574.2	530.3	508.4
125°	803.8	795.4	791.6	787.7	781.9	816.1	*822.5*	804.5	767.1	705.8	671.6
127.5°	727.1	734.2	745.1	743.8	738.7	765.1	*781.3*	770.3	760.0	701.3	681.3
130°	523.2	526.4	545.8	580.6	576.7	598.0	*600.0*	610.9	628.4	602.6	581.9
132.5°	433.5	436.8	465.8	481.3	482.6	483.2	*474.2*	499.3	517.4	491.6	474.2
135°	378.0	378.0	384.5	378.7	380.6	397.4	*405.1*	427.7	432.2	420.0	402.6
137.5°	334.2	335.5	321.9	311.0	312.9	343.2	*360.6*	378.0	369.0	343.9	331.6
140°	291.0	283.9	265.1	261.9	276.1	305.1	*315.5*	327.7	330.3	298.1	281.9
142.5°	214.2	211.6	220.0	237.4	245.2	293.5	*285.8*	309.0	310.3	256.1	229.7
145°	239.3	238.7	238.1	241.3	259.3	329.7	*311.0*	340.6	354.8	272.2	222.6
147.5°	270.3	269.7	263.9	256.8	283.9	301.3	*284.5*	310.3	325.8	270.3	215.5
150°	209.0	210.3	207.1	205.2	234.8	231.6	*227.7*	234.8	241.3	223.9	196.1
152.5°	162.6	160.0	158.1	158.7	183.2	179.3	*179.3*	184.5	185.2	178.7	164.5
155°	146.4	145.8	144.5	147.1	161.9	158.1	*154.8*	153.5	150.3	148.4	146.4
157.5°	137.4	136.1	136.1	140.0	150.3	143.9	*142.6*	141.3	139.3	139.3	140.0
160°	128.4	127.7	127.7	133.5	136.8	131.0	*129.7*	129.0	128.4	129.7	131.0
162.5°	123.2	123.2	123.2	127.1	127.1	123.2	*121.9*	121.3	121.9	126.4	127.1
165°	121.3	120.6	121.3	123.2	122.6	120.0	*119.3*	119.3	121.3	125.2	125.8
167.5°	124.5	124.5	124.5	125.2	124.5	121.9	*121.3*	121.3	123.2	126.4	126.4
170°	129.7	129.0	129.0	129.0	128.4	125.8	*124.5*	125.2	125.8	127.7	127.7
172.5°	134.2	134.2	133.5	132.9	131.6	130.3	*129.0*	129.0	129.0	129.7	129.7
175°	139.3	139.3	139.3	138.7	138.7	136.8	*136.1*	135.5	134.8	134.2	133.5
177.5°	145.2	144.5	144.5	144.5	144.5	142.6	*141.3*	140.6	139.3	138.7	138.7
180°	142.6	142.6	142.6	142.6	142.6	142.6	*142.6*	142.6	142.6	142.6	142.6

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

Scaled Data Report

REPORT NUMBER: P981437
CATALOG NUMBER: FFX-CLB-60-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	60.0	58.1	54.8	49.0	47.1	45.2	43.2	39.4	37.4	36.1
5°	73.5	71.0	70.3	67.1	62.6	58.7	58.1	56.8	56.1	54.2
7.5°	105.2	106.4	109.7	103.9	91.0	83.9	85.8	92.9	90.3	89.7
10°	132.3	140.6	147.1	132.3	109.0	94.2	94.8	109.0	110.3	112.9
12.5°	154.8	161.9	160.6	141.9	120.0	105.8	101.3	109.0	116.1	116.8
15°	179.3	167.1	162.6	147.1	131.6	120.6	118.7	120.6	120.6	119.3
17.5°	189.7	168.4	155.5	142.6	131.6	123.9	121.3	118.1	113.5	113.5
20°	192.2	173.5	158.7	145.2	134.2	125.8	118.7	114.8	113.5	113.5
22.5°	200.0	183.2	167.7	151.6	140.0	129.0	120.6	116.8	116.8	117.4
25°	211.0	195.5	176.1	159.3	147.1	135.5	124.5	118.7	118.1	118.7
27.5°	224.5	208.4	187.1	169.0	154.8	141.9	128.4	121.3	118.7	118.7
30°	240.0	221.3	197.4	177.4	161.9	150.3	133.5	123.9	120.6	119.3
32.5°	267.7	246.4	210.3	188.4	171.0	158.1	141.3	129.0	122.6	121.3
35°	336.1	303.2	256.1	216.1	189.7	167.1	147.1	132.3	123.9	122.6
37.5°	410.3	360.6	316.1	271.6	232.9	196.1	158.1	137.4	127.1	125.2
40°	456.8	391.6	352.2	285.8	280.6	250.3	194.2	151.6	133.5	131.0
42.5°	552.2	454.8	392.2	252.2	274.2	280.6	245.2	190.3	151.0	146.4
45°	665.1	534.8	440.0	269.7	282.6	274.8	251.0	220.6	188.4	179.3
47.5°	861.9	610.3	456.8	312.9	323.2	301.9	266.4	234.8	211.0	207.7
50°	1243.8	832.2	514.2	384.5	415.5	356.1	310.3	285.8	253.5	249.7
52.5°	1735.4	1001.9	577.4	497.4	567.7	494.2	420.0	370.3	363.2	365.8
55°	2268.3	1054.1	660.6	614.8	738.0	669.0	583.8	536.1	583.2	598.0
57.5°	2796.7	1132.9	781.3	767.1	923.8	818.7	751.6	772.2	968.3	1015.4
60°	3212.8	1199.9	883.2	913.5	1107.7	993.5	965.1	995.4	1332.2	1457.4
62.5°	3376.0	1169.6	936.1	975.4	1194.1	1116.1	1106.4	1135.4	1419.3	1542.5
65°	*3388.2*	*1123.2*	*956.7*	*992.2*	*1207.7*	*1124.5*	*1098.0*	*1073.5*	*1270.9*	*1349.0*
67.5°	3135.3	1030.3	931.6	968.3	1147.7	1037.4	982.5	927.1	1028.3	1071.6
70°	2527.6	913.5	852.9	874.2	965.1	863.2	788.4	750.3	786.4	783.2
72.5°	1914.8	804.5	766.4	745.1	788.4	705.8	623.2	586.4	618.7	610.3
75°	1462.5	718.0	682.6	611.6	653.5	541.9	450.9	425.8	441.3	435.5
77.5°	1055.4	575.5	528.4	450.3	504.5	394.2	302.6	284.5	288.4	276.1
80°	760.0	429.0	383.2	327.7	371.0	281.9	224.5	220.6	222.6	209.7
82.5°	596.7	343.9	313.5	283.9	297.4	254.8	216.1	212.2	214.2	200.0
85°	556.1	336.8	305.1	285.8	290.3	251.0	209.7	208.4	211.6	196.1
87.5°	524.5	333.5	308.4	280.6	269.7	230.3	194.2	200.0	209.0	192.9
90°	462.6	311.0	289.0	263.9	252.2	216.1	194.2	202.6	201.9	190.3
92.5°	407.7	277.4	260.0	245.8	243.2	220.0	203.2	211.0	213.5	201.9
95°	334.2	234.2	225.8	221.3	225.2	202.6	188.4	192.2	189.7	183.2
97.5°	284.5	213.5	207.7	201.3	197.4	181.3	169.0	174.2	176.8	171.0
100°	257.4	203.2	198.7	191.6	191.0	180.0	173.5	183.9	191.6	188.4
102.5°	240.6	192.9	187.1	180.6	178.7	169.7	164.5	171.0	178.1	171.6
105°	228.4	183.2	174.2	168.4	165.2	158.7	152.3	154.8	162.6	159.3
107.5°	216.8	182.6	168.4	163.9	163.9	155.5	146.4	147.1	151.0	150.3
110°	234.8	202.6	176.8	170.3	168.4	165.8	159.3	152.9	147.7	147.7

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

Scaled Data Report

REPORT NUMBER: P981437
CATALOG NUMBER: FFX-CLB-60-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	281.3	248.4	221.9	201.3	192.9	183.2	169.7	160.0	152.9	151.0
115°	301.9	266.4	241.3	218.7	199.3	180.6	169.0	161.9	158.1	161.9
117.5°	284.5	235.5	232.2	209.0	191.0	176.1	172.9	161.3	167.7	167.7
120°	320.0	273.5	266.4	232.9	207.7	189.0	187.1	185.2	178.1	174.8
122.5°	467.7	407.1	378.0	328.4	285.1	246.4	224.5	194.2	172.9	168.4
125°	635.5	555.5	485.8	420.0	354.8	285.8	227.7	182.6	160.6	157.4
127.5°	637.4	556.1	479.3	399.3	328.4	256.1	204.5	172.9	157.4	156.8
130°	560.6	489.7	405.1	325.8	268.4	220.6	183.2	157.4	146.4	143.2
132.5°	446.4	383.2	329.0	280.0	236.1	195.5	161.9	143.9	137.4	136.8
135°	375.5	320.6	282.6	246.4	212.2	176.1	145.2	136.1	132.9	131.6
137.5°	306.4	273.5	250.3	221.3	188.4	158.7	138.1	134.2	132.9	130.3
140°	265.8	243.9	218.7	186.4	161.3	136.8	125.8	129.0	132.3	131.6
142.5°	216.8	200.6	181.9	160.6	143.2	132.3	127.7	129.7	129.7	130.3
145°	205.8	184.5	174.2	161.3	149.7	141.3	130.3	126.4	125.8	125.8
147.5°	191.0	182.6	176.1	167.1	149.7	134.2	121.9	120.0	122.6	121.9
150°	178.7	172.9	165.2	151.0	133.5	123.2	116.8	117.4	121.9	122.6
152.5°	151.6	148.4	143.2	134.2	121.9	116.8	113.5	116.1	119.3	120.0
155°	134.8	132.9	131.6	125.8	118.1	114.8	113.5	115.5	118.7	119.3
157.5°	133.5	129.0	127.1	123.2	117.4	114.2	114.2	116.1	118.1	118.7
160°	129.7	123.9	123.2	119.3	118.1	116.1	117.4	118.1	120.0	119.3
162.5°	126.4	122.6	121.9	119.3	120.6	122.6	122.6	123.2	124.5	123.9
165°	125.2	121.9	121.3	121.3	125.2	128.4	129.0	128.4	128.4	128.4
167.5°	126.4	124.5	123.9	125.2	128.4	132.3	132.9	131.6	130.3	129.7
170°	128.4	127.7	128.4	129.0	131.0	133.5	133.5	132.3	132.3	132.3
172.5°	130.3	131.6	132.3	132.3	134.2	135.5	136.1	135.5	135.5	135.5
175°	134.2	134.8	134.8	135.5	137.4	138.7	140.0	140.0	140.0	140.0
177.5°	138.7	138.7	138.7	139.3	140.0	141.9	142.6	143.9	144.5	144.5
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6

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

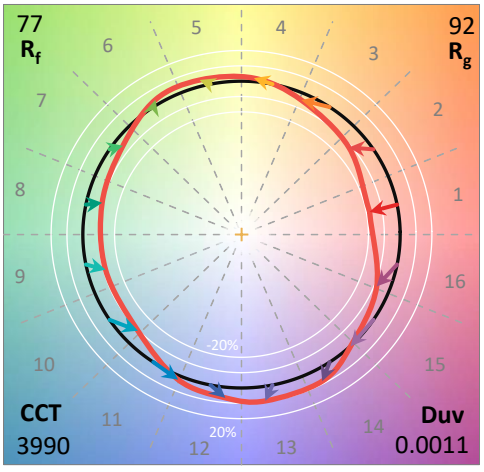
Test Information

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

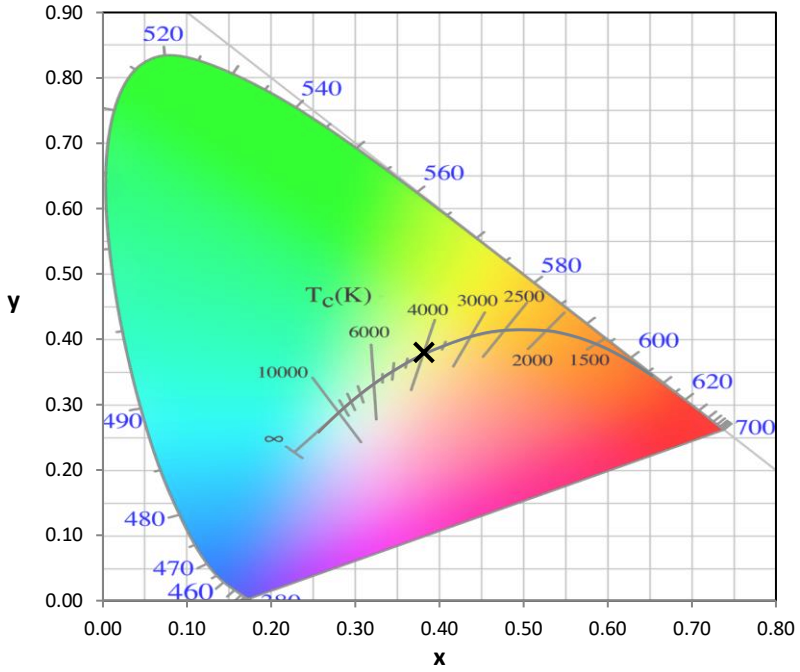
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

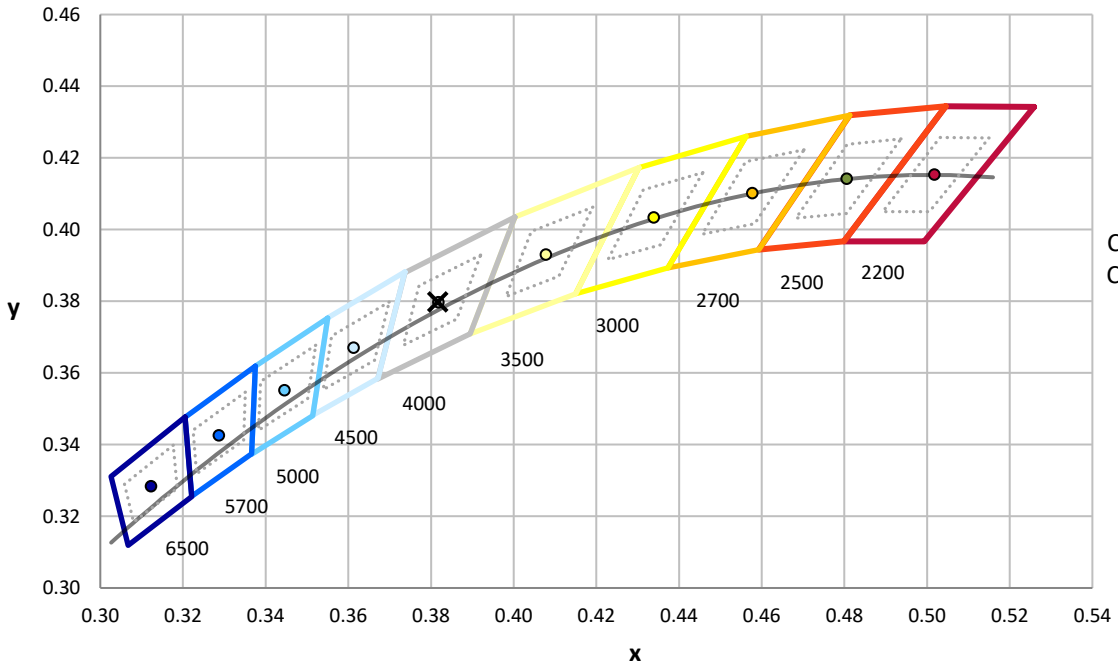
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

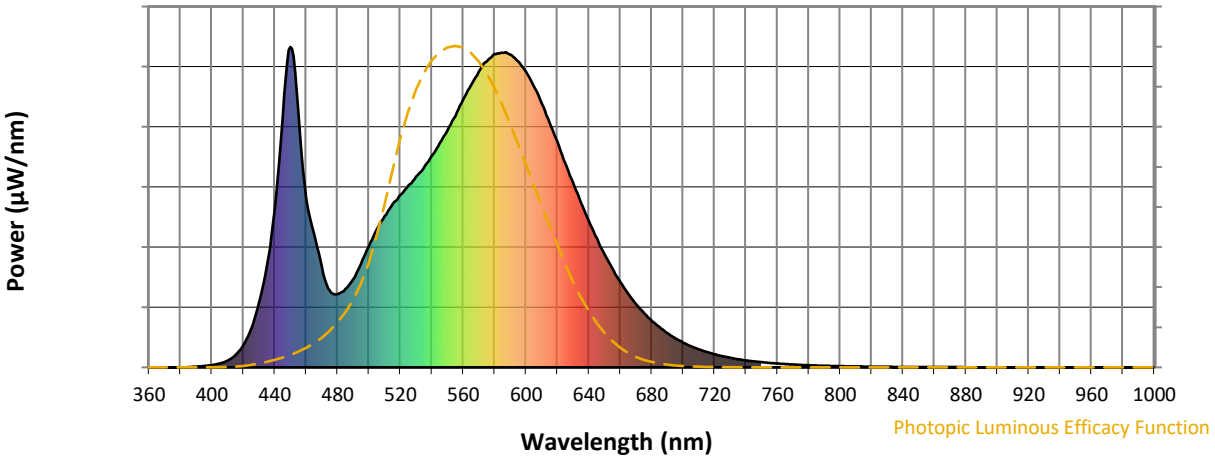


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

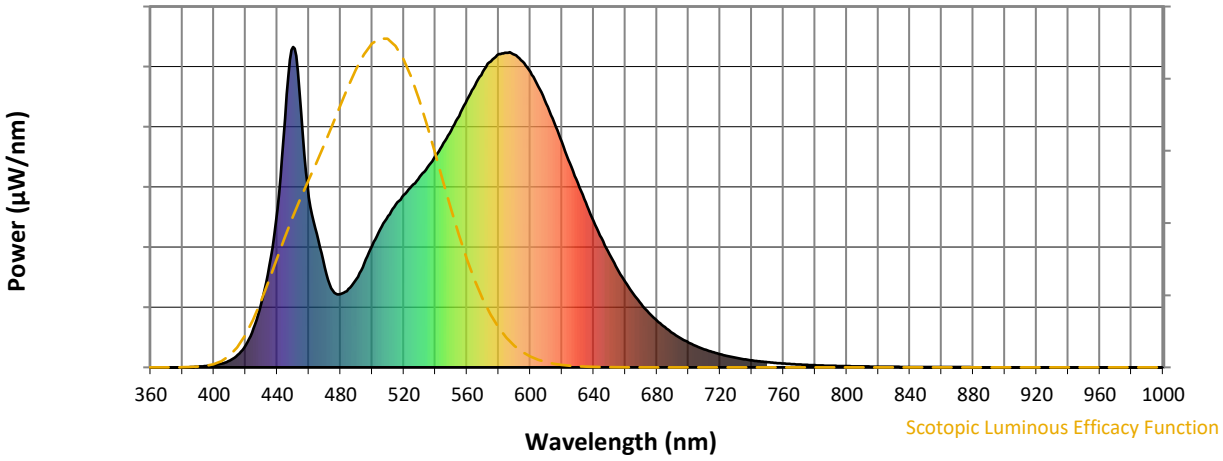


Photopic Lumens: NR

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

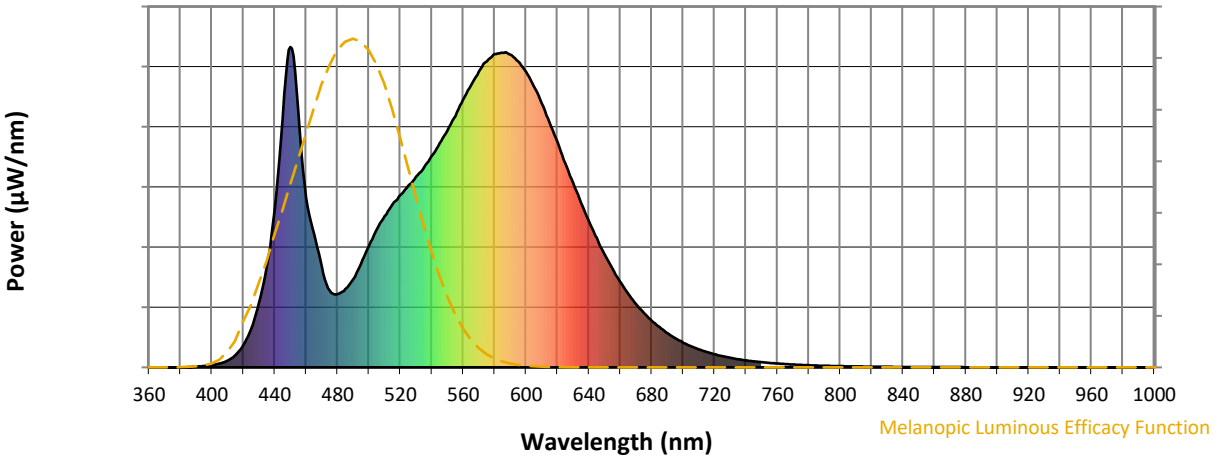


Scotopic Lumens: NR **S/P: 1.59**

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			

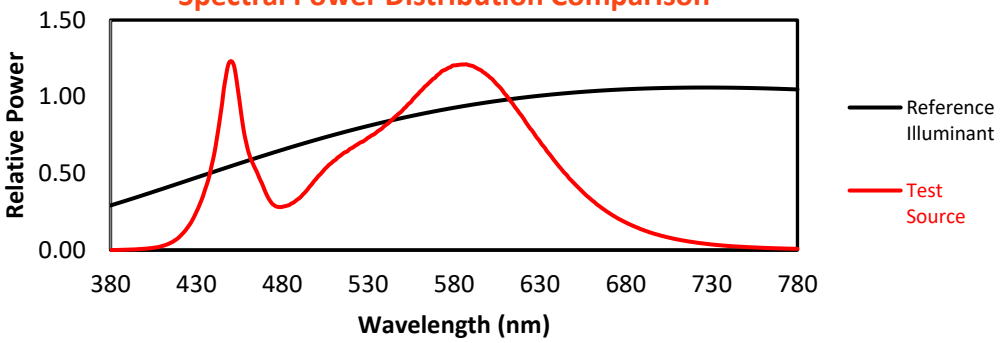
REPORT NUMBER: SP1-2501-332-1

TM-30-18

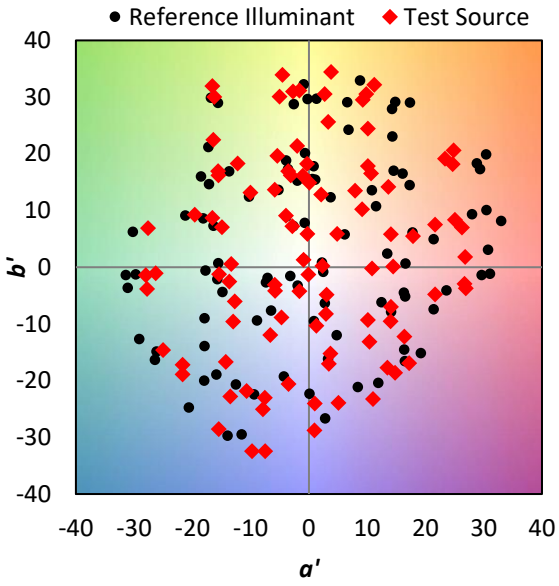
Summary

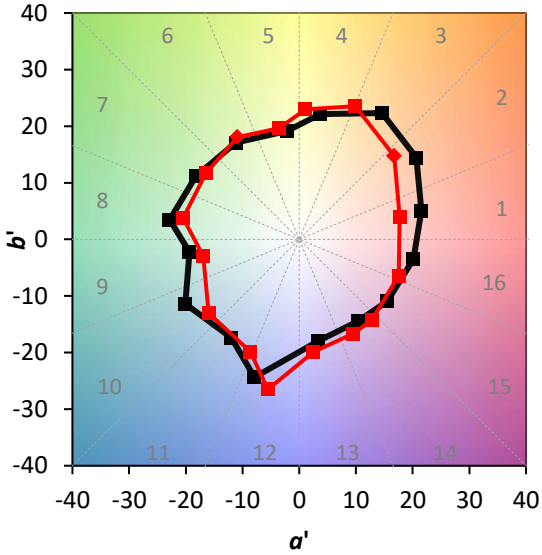
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

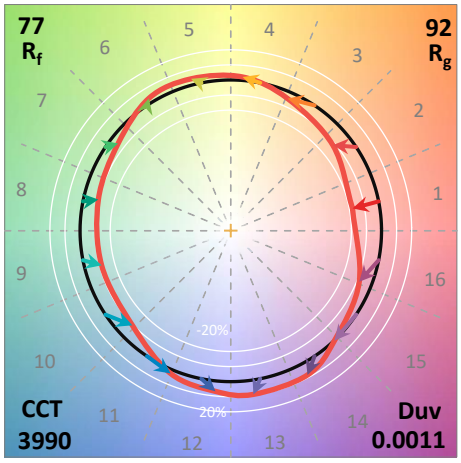
Spectral Power Distribution Comparison

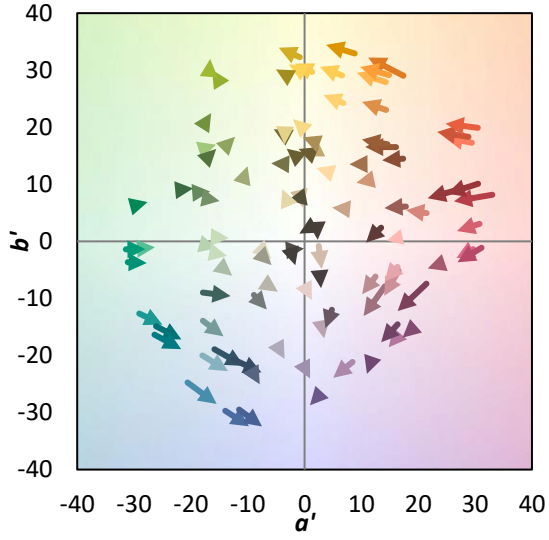


Color Vector Graphics







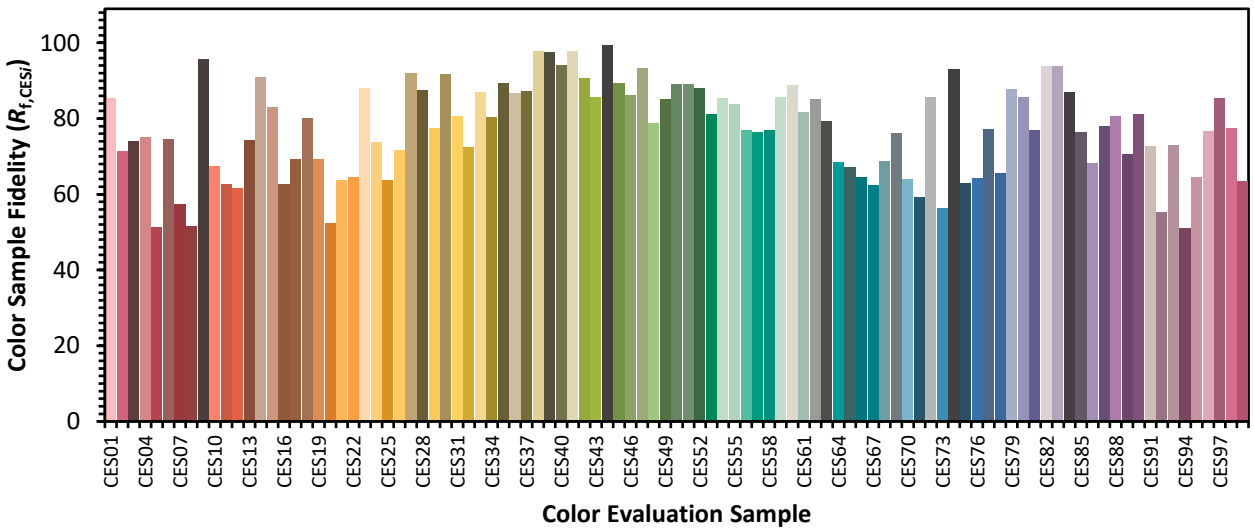


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

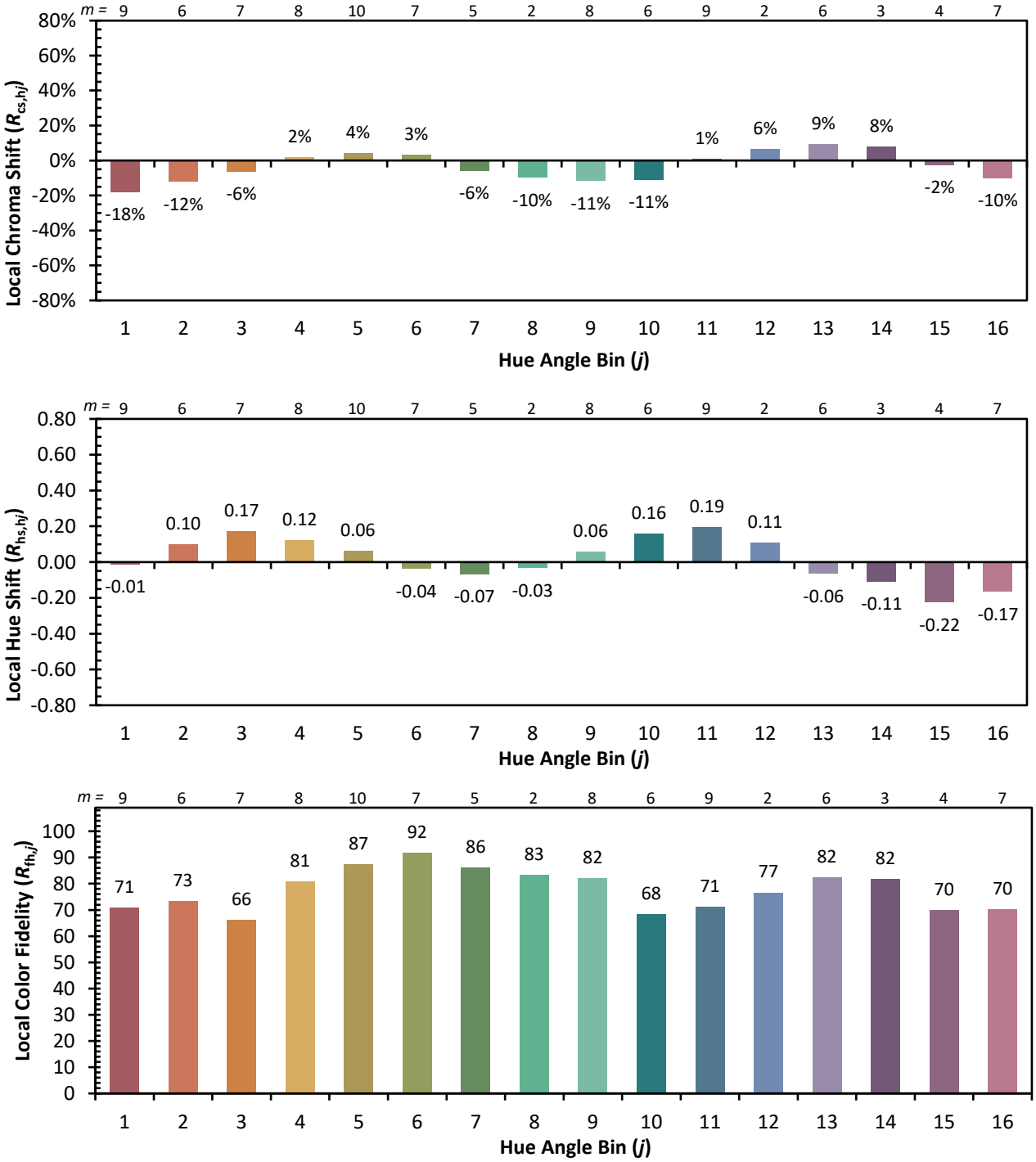
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82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

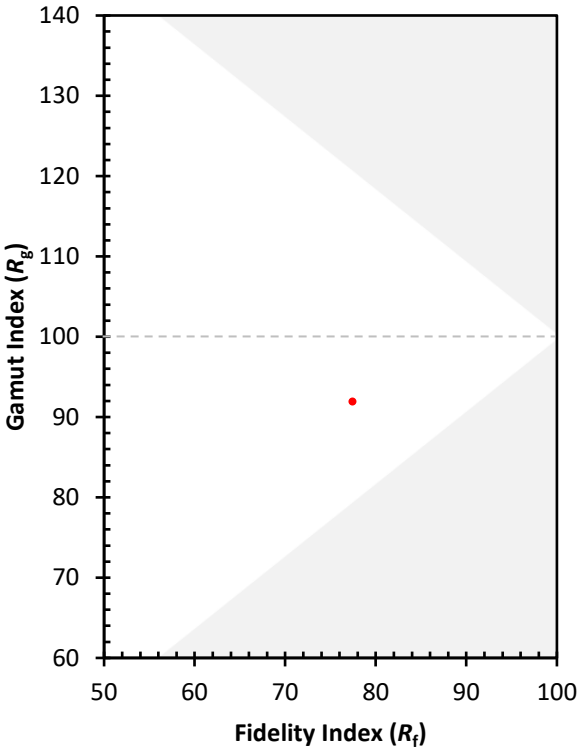
Color Rendition by Hue-Angle Bin

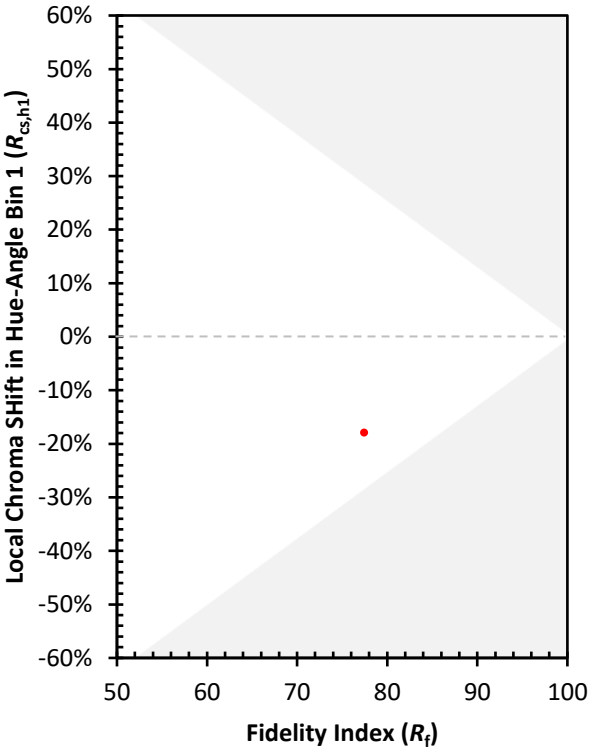


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)