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: P1045761

Luminaire Tested: **FFX-CLB-80-740-U-FR-T5-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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:	P1045761
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-740-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8610.5 lumens
Efficiency:	N/A
Efficacy:	105.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

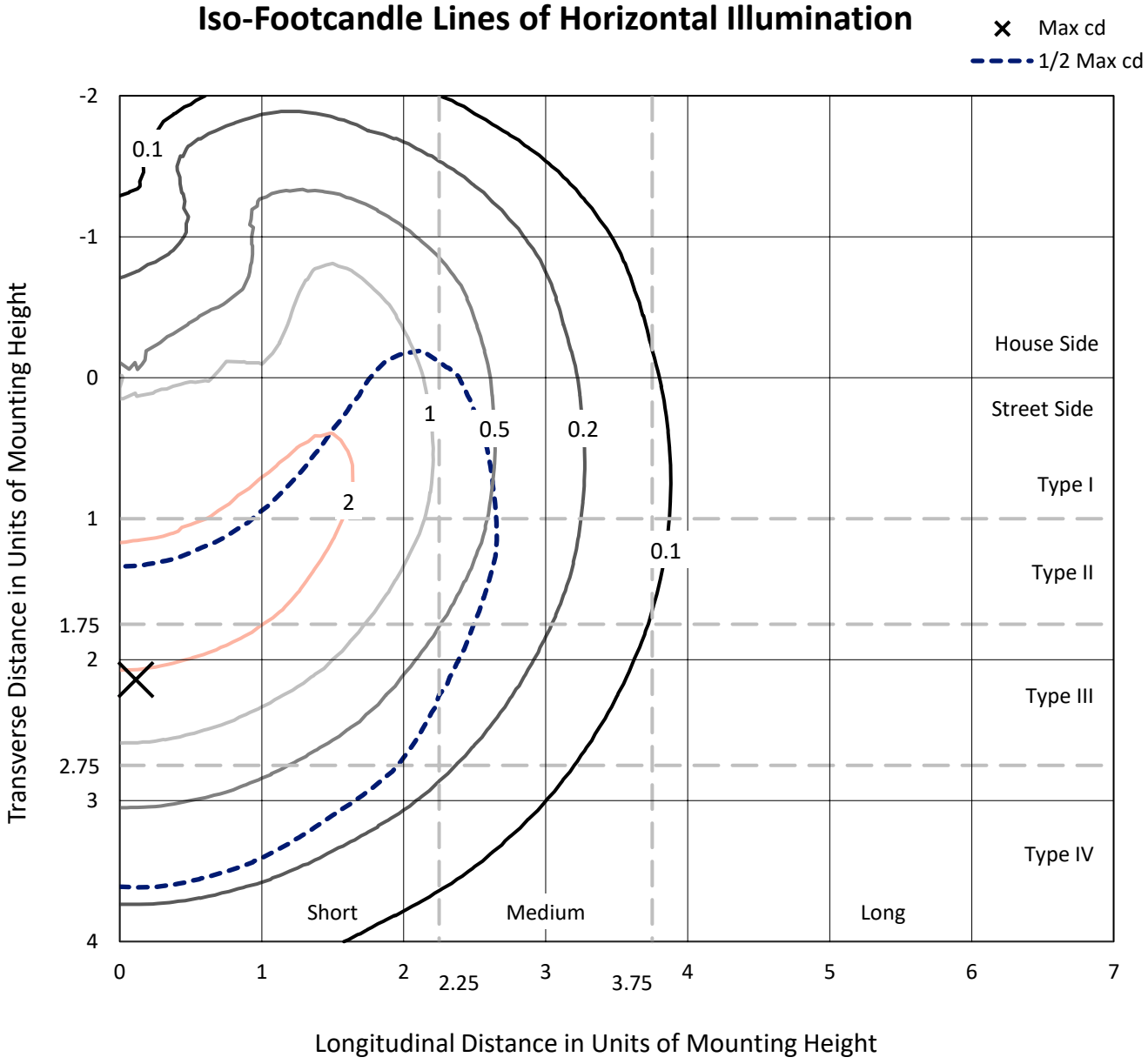


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045761
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T5-UPLR-HSS

Iso-Footcandle Lines of Horizontal Illumination



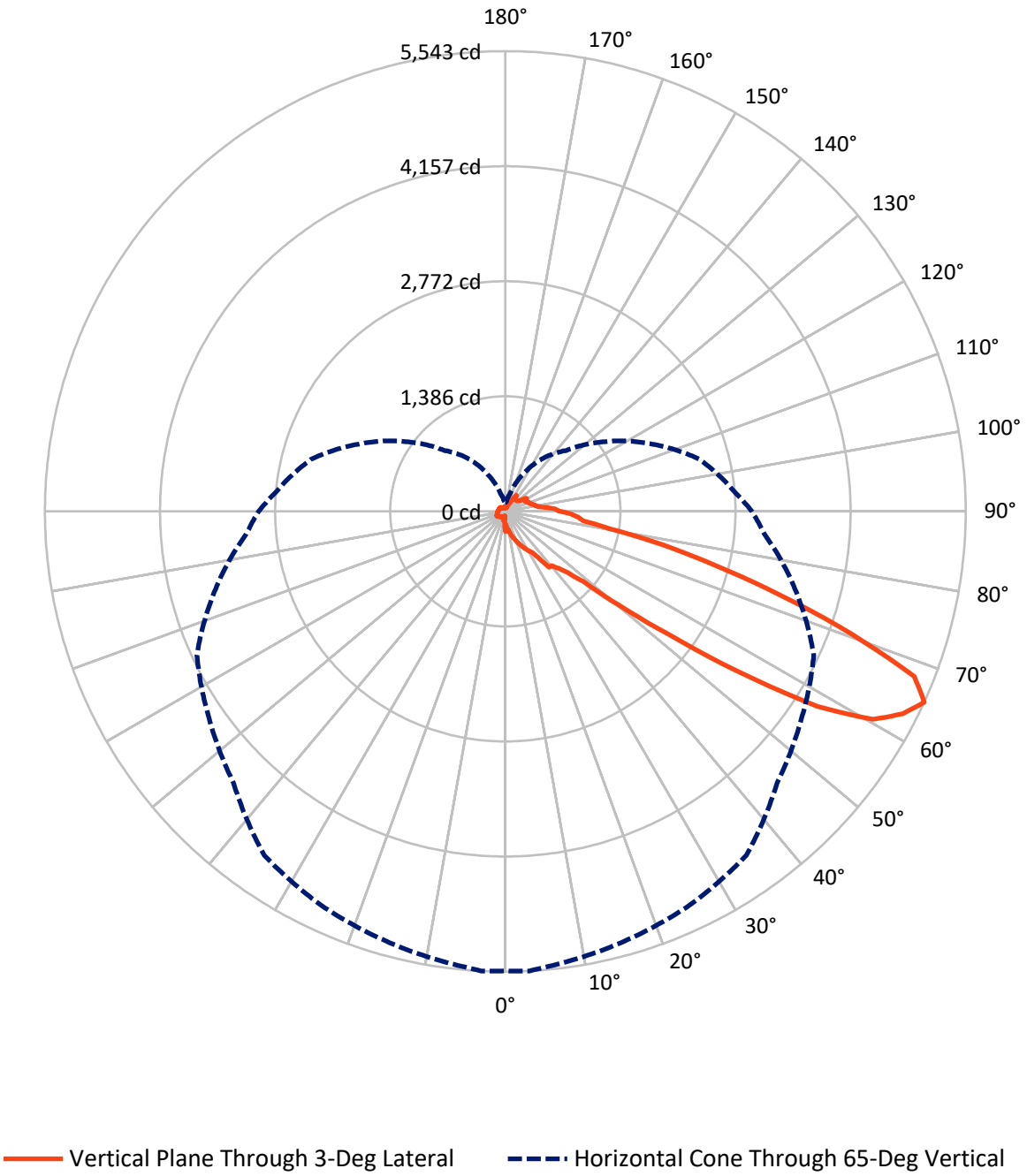
Based on 15 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045761
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T5-UPLR-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

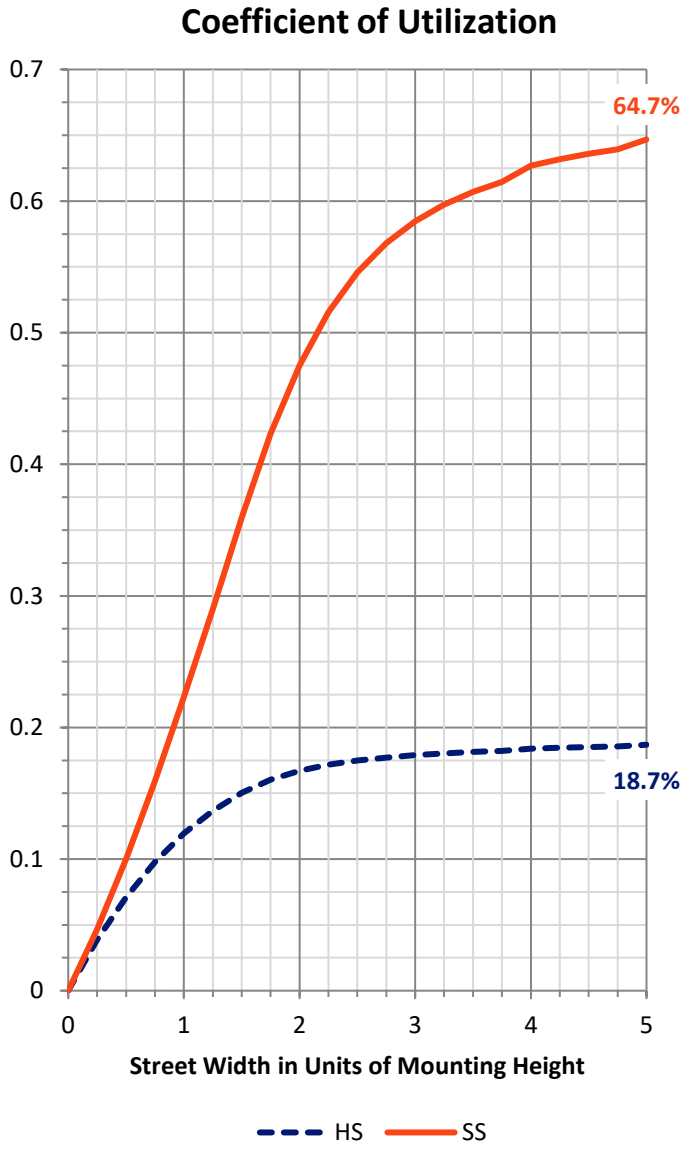
REPORT NUMBER: P1045761
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T5-UPLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1665.9	362.2	2028.1
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	5809.0	773.4	6582.4
	% Fixture	67.5	9.0	76.4
Total	Lumens	7474.9	1135.6	8610.5
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	0.2
10°-20°	58.7	0.7
20°-30°	130.9	1.5
30°-40°	264.6	3.1
40°-50°	531.4	6.2
50°-60°	1705.4	19.8
60°-70°	2720.2	31.6
70°-80°	1479.7	17.2
80°-90°	568.6	6.6
90°-100°	338.9	3.9
100°-110°	224.9	2.6
110°-120°	179.2	2.1
120°-130°	149.4	1.7
130°-140°	102.9	1.2
140°-150°	83.1	1.0
150°-160°	37.1	0.4
160°-170°	15.1	0.2
170°-180°	5.1	0.1
0°-90°	7474.9	86.8
0°-180°	8610.5	100.0



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

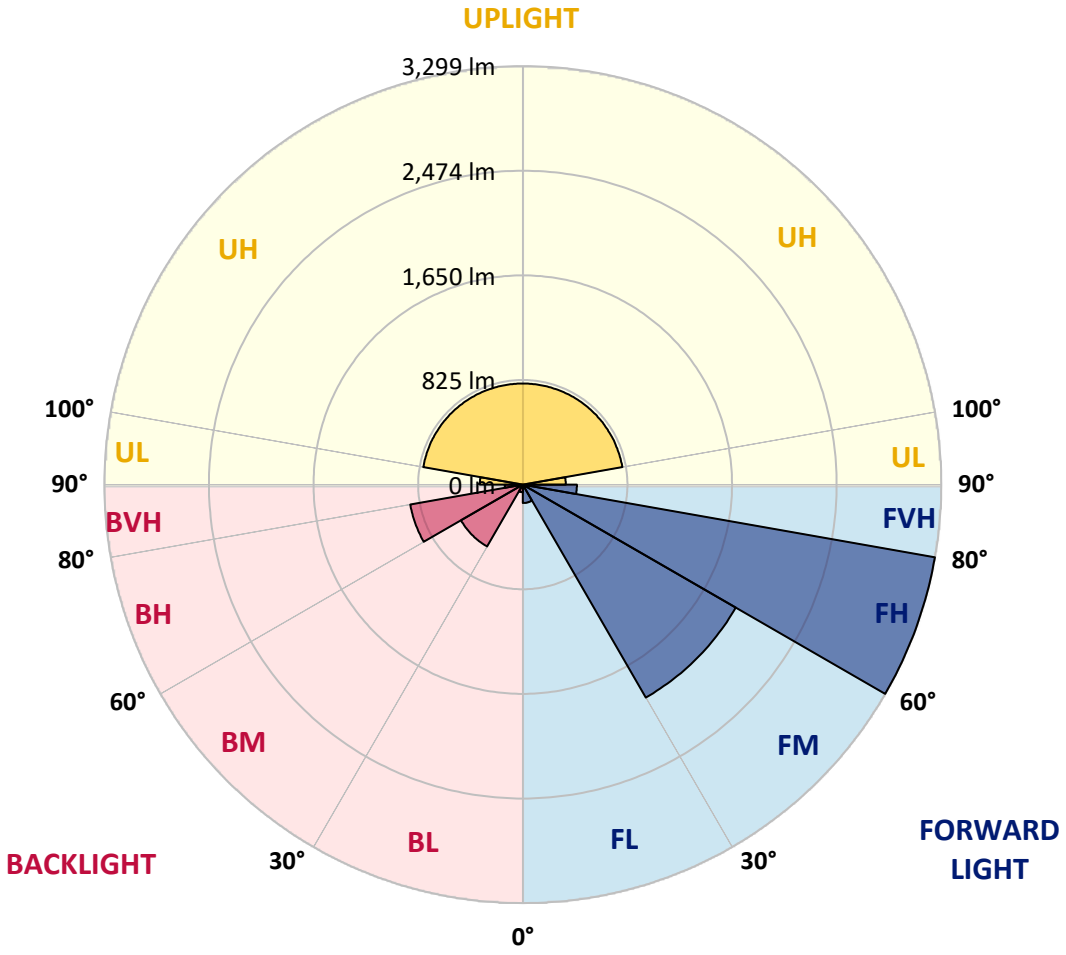
Scaled Data Report

REPORT NUMBER: P1045761
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T5-UPLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	145.2	1.7			
FM	(30°-60°)	1938.5	22.5			
FH	(60°-80°)	3299.0	38.3			G2/5000
FVH	(80°-90°)	426.3	5.0			G3/500
BL	(0°-30°)	59.8	0.7	B0/110		
BM	(30°-60°)	562.9	6.5	B1/1000		
BH	(60°-80°)	900.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	142.3	1.7			G2/225
UL	(90°-100°)	338.9	3.9		U3/500	
UH	(100°-180°)	796.7	9.3		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045761
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	243.4	243.4	243.4	243.4	243.4	243.4	243.4	243.4	243.4	243.4	243.4
2.5°	157.3	156.3	159.3	173.1	208.7	220.6	210.7	193.9	190.9	208.7	222.6
5°	214.7	212.7	210.7	196.9	183.0	189.9	209.7	214.7	194.9	158.3	134.5
7.5°	217.6	215.7	216.7	216.7	213.7	200.8	186.0	192.9	209.7	187.0	147.4
10°	242.4	241.4	241.4	240.4	237.4	233.5	232.5	217.6	191.9	172.1	164.2
12.5°	282.9	282.9	281.9	281.0	278.0	271.1	262.2	250.3	242.4	218.6	193.9
15°	315.6	312.6	314.6	311.6	306.7	302.7	291.8	279.0	255.2	239.4	217.6
17.5°	347.2	347.2	348.2	343.3	337.4	334.4	322.5	305.7	282.9	255.2	234.5
20°	386.8	383.8	383.8	378.9	372.0	362.1	351.2	336.4	317.6	280.0	252.3
22.5°	424.4	425.4	425.4	417.5	406.6	397.7	382.9	365.1	347.2	308.7	273.0
25°	466.9	466.0	465.0	464.0	453.1	437.3	418.5	399.7	386.8	349.2	299.8
27.5°	506.5	504.5	503.6	508.5	498.6	482.8	455.1	432.3	418.5	379.9	324.5
30°	550.0	549.1	549.1	551.0	547.1	522.3	492.7	466.0	446.2	407.6	348.2
32.5°	588.6	586.7	587.6	595.6	594.6	562.9	536.2	503.6	478.8	448.2	382.9
35°	683.6	679.6	685.6	697.5	706.4	672.7	636.1	585.7	548.1	516.4	449.1
37.5°	854.8	855.7	857.7	841.9	808.3	783.5	765.7	725.2	678.7	625.2	546.1
40°	861.7	860.7	865.6	889.4	903.2	860.7	819.1	771.7	759.8	714.3	613.4
42.5°	941.8	935.9	940.8	963.6	982.4	956.7	920.0	839.9	796.4	755.8	672.7
45°	1056.6	1049.6	1058.5	1062.5	1058.5	1030.8	1036.8	971.5	930.9	848.8	733.1
47.5°	1231.7	1263.3	1268.3	1269.3	1308.8	1271.2	1247.5	1185.2	1093.2	995.2	863.7
50°	1729.3	1780.7	1762.9	1746.1	1749.1	1720.4	1687.7	1601.7	1478.0	1312.8	1124.8
52.5°	2468.3	2448.5	2451.5	2462.4	2490.1	2362.4	2307.0	2177.4	1977.6	1779.7	1508.7
55°	3372.5	3406.2	3404.2	3439.8	3434.8	3297.3	3122.2	2904.6	2613.7	2323.9	2003.3
57.5°	4490.4	4431.1	4391.5	4326.2	4269.8	4082.8	3967.1	3731.6	3346.8	2911.5	2500.0
60°	5117.6	5085.0	5075.1	4985.1	4907.9	4678.4	4440.0	4184.7	3884.0	3369.5	2902.6
62.5°	5353.1	5368.9	5355.1	5296.7	5245.3	5044.4	4643.8	4365.8	4096.7	3602.0	3110.4
65°	5534.1	5543.0	5511.4	5378.8	5238.3	5058.3	4626.9	4352.9	4097.7	3610.9	3130.1
67.5°	5312.5	5310.5	5285.8	5094.9	4857.5	4679.4	4287.6	3992.8	3776.1	3369.5	2905.6
70°	4411.3	4417.2	4422.2	4281.7	4021.5	3888.9	3492.2	3239.0	3052.0	2700.8	2367.4
72.5°	3453.6	3471.4	3479.4	3369.5	3176.6	3040.1	2775.0	2585.0	2410.9	2131.9	1869.8
75°	2597.9	2615.7	2610.8	2542.5	2407.0	2369.4	2240.8	2078.5	1933.1	1716.4	1494.8
77.5°	1948.9	1934.1	1930.1	1863.8	1730.3	1740.2	1703.6	1610.6	1497.8	1370.2	1215.8
80°	1291.0	1278.2	1252.5	1275.2	1264.3	1232.7	1172.3	1124.8	1080.3	1004.1	920.0
82.5°	949.7	945.8	940.8	926.0	916.1	908.2	881.5	805.3	751.9	708.3	657.9
85°	888.4	876.5	878.5	852.8	822.1	794.4	773.6	741.0	699.4	631.2	558.0
87.5°	775.6	775.6	769.7	751.9	721.2	714.3	699.4	676.7	651.9	599.5	534.2
90°	645.0	641.1	641.1	640.1	633.2	628.2	599.5	578.7	567.9	515.4	469.9
92.5°	595.6	593.6	589.6	584.7	564.9	560.9	532.2	505.5	481.8	449.1	413.5
95°	483.8	487.7	478.8	477.8	467.9	462.0	439.2	426.4	410.6	383.8	351.2
97.5°	408.6	402.6	403.6	394.7	384.8	380.9	367.0	348.2	333.4	312.6	288.9
100°	374.9	374.0	372.0	365.1	351.2	342.3	327.5	309.7	294.8	276.0	256.2
102.5°	353.2	352.2	351.2	345.3	329.4	324.5	310.6	296.8	283.9	267.1	241.4
105°	331.4	330.4	328.4	321.5	311.6	306.7	293.8	285.9	273.0	258.2	233.5
107.5°	311.6	311.6	310.6	302.7	296.8	292.8	280.0	273.0	259.2	246.3	222.6
110°	301.7	301.7	300.7	294.8	282.9	277.0	265.1	256.2	243.4	230.5	211.7

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

Scaled Data Report

REPORT NUMBER: P1045761
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	290.9	*291.8*	291.8	293.8	265.1	254.2	244.4	237.4	226.5	214.7	198.8
115°	266.1	*267.1*	266.1	276.0	266.1	251.3	245.3	233.5	219.6	200.8	184.0
117.5°	268.1	*268.1*	270.1	275.0	270.1	256.2	243.4	228.5	216.7	197.9	183.0
120°	303.7	*301.7*	301.7	291.8	289.9	277.0	268.1	252.3	232.5	213.7	192.9
122.5°	291.8	*290.9*	291.8	276.0	275.0	272.1	269.1	266.1	240.4	229.5	202.8
125°	233.5	*231.5*	230.5	224.6	234.5	227.5	225.6	232.5	215.7	205.8	190.9
127.5°	208.7	*206.8*	205.8	203.8	209.7	197.9	195.9	197.9	185.0	173.1	164.2
130°	199.8	*196.9*	196.9	203.8	212.7	202.8	191.9	184.0	179.1	171.1	156.3
132.5°	189.0	*189.0*	189.9	198.8	214.7	203.8	184.0	168.2	166.2	167.2	160.3
135°	186.0	*185.0*	186.0	183.0	182.0	176.1	167.2	154.3	151.4	159.3	151.4
137.5°	190.9	*189.9*	189.0	181.0	172.1	167.2	165.2	157.3	149.4	144.4	136.5
140°	189.0	*189.0*	188.0	186.0	180.1	170.2	168.2	160.3	152.4	143.4	133.6
142.5°	191.9	*194.9*	196.9	198.8	196.9	186.0	175.1	162.2	153.3	148.4	137.5
145°	236.4	*236.4*	236.4	232.5	225.6	216.7	208.7	199.8	192.9	177.1	162.2
147.5°	195.9	*195.9*	194.9	195.9	195.9	191.9	190.9	188.0	189.0	181.0	166.2
150°	135.5	*138.5*	138.5	143.4	145.4	143.4	143.4	145.4	142.5	141.5	133.6
152.5°	109.8	*108.8*	106.8	108.8	108.8	109.8	109.8	107.8	106.8	106.8	101.9
155°	97.0	*97.0*	97.0	96.0	94.0	95.0	96.0	96.0	93.0	91.0	87.1
157.5°	77.2	*76.2*	76.2	78.2	78.2	78.2	78.2	78.2	78.2	79.1	80.1
160°	65.3	*63.3*	64.3	64.3	65.3	66.3	65.3	66.3	66.3	67.3	66.3
162.5°	53.4	*52.4*	52.4	53.4	54.4	55.4	56.4	56.4	57.4	59.4	60.3
165°	47.5	*47.5*	47.5	48.5	48.5	49.5	50.5	51.4	53.4	56.4	57.4
167.5°	44.5	*44.5*	44.5	44.5	45.5	46.5	48.5	51.4	53.4	56.4	56.4
170°	43.5	*43.5*	44.5	44.5	44.5	45.5	49.5	52.4	53.4	54.4	54.4
172.5°	45.5	*45.5*	45.5	45.5	45.5	47.5	52.4	53.4	53.4	53.4	54.4
175°	47.5	*47.5*	46.5	46.5	47.5	48.5	49.5	54.4	56.4	57.4	59.4
177.5°	44.5	*44.5*	44.5	45.5	45.5	46.5	47.5	49.5	49.5	51.4	54.4
180°	49.5	*49.5*	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5

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

Scaled Data Report

REPORT NUMBER: P1045761
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	243.4	243.4	243.4	243.4	243.4	243.4	243.4	243.4	243.4	243.4	243.4
2.5°	232.5	249.3	228.5	206.8	190.9	199.8	209.7	201.8	192.9	193.9	177.1
5°	139.5	143.4	145.4	126.6	104.9	116.7	142.5	133.6	102.9	57.4	49.5
7.5°	134.5	128.6	126.6	140.5	127.6	85.1	66.3	60.3	80.1	96.0	100.9
10°	159.3	152.4	137.5	112.8	99.9	94.0	92.0	88.0	76.2	59.4	56.4
12.5°	183.0	175.1	161.3	149.4	132.6	110.8	97.0	93.0	99.9	111.8	111.8
15°	206.8	195.9	178.1	162.2	149.4	125.6	107.8	92.0	90.0	93.0	93.0
17.5°	223.6	211.7	190.9	169.2	146.4	123.7	102.9	87.1	80.1	78.2	78.2
20°	240.4	229.5	204.8	181.0	153.3	126.6	102.9	86.1	78.2	75.2	74.2
22.5°	262.2	248.3	220.6	194.9	161.3	128.6	101.9	87.1	78.2	73.2	72.2
25°	286.9	271.1	239.4	208.7	169.2	130.6	102.9	88.0	79.1	73.2	72.2
27.5°	306.7	289.9	259.2	224.6	179.1	135.5	106.8	90.0	80.1	74.2	73.2
30°	329.4	311.6	277.0	241.4	190.9	143.4	114.8	96.0	84.1	76.2	76.2
32.5°	364.1	340.3	301.7	257.2	202.8	152.4	123.7	102.9	88.0	82.1	82.1
35°	420.5	396.7	345.3	287.9	215.7	161.3	130.6	109.8	93.0	85.1	85.1
37.5°	510.5	474.9	417.5	338.3	236.4	168.2	138.5	114.8	96.0	85.1	83.1
40°	562.9	523.3	451.1	375.9	262.2	177.1	144.4	118.7	97.9	86.1	85.1
42.5°	621.3	575.8	482.8	385.8	279.0	197.9	153.3	122.7	99.9	89.0	87.1
45°	682.6	639.1	555.0	438.3	318.6	226.5	168.2	130.6	105.9	93.0	91.0
47.5°	794.4	741.0	632.2	512.5	376.9	272.1	200.8	143.4	112.8	97.0	95.0
50°	1045.7	996.2	844.9	665.8	469.9	337.4	251.3	170.2	123.7	99.9	97.0
52.5°	1386.0	1298.0	1126.8	902.2	655.9	472.9	335.4	229.5	140.5	102.9	97.9
55°	1880.7	1782.7	1529.5	1236.6	898.3	686.6	507.5	345.3	199.8	105.9	97.0
57.5°	2372.3	2253.6	2040.9	1640.3	1206.9	875.5	678.7	505.5	290.9	118.7	99.9
60°	2724.5	2580.1	2316.9	1949.9	1464.2	1029.9	766.7	551.0	323.5	121.7	102.9
62.5°	2932.3	2751.2	2420.8	1982.6	1525.5	1094.2	802.3	520.4	278.0	118.7	106.8
65°	*2969.9*	*2764.1*	*2420.8*	*1926.2*	*1462.2*	*1037.8*	*775.6*	*480.8*	*219.6*	*113.8*	*109.8*
67.5°	2754.2	2562.3	2272.4	1768.9	1297.0	891.4	667.8	395.7	167.2	109.8	108.8
70°	2260.5	2116.1	1879.7	1445.4	1052.6	725.2	531.3	304.7	135.5	104.9	102.9
72.5°	1763.9	1630.4	1453.3	1133.7	814.2	574.8	405.6	238.4	120.7	100.9	99.9
75°	1388.0	1288.1	1141.6	895.3	612.4	435.3	307.7	180.1	108.8	98.9	97.0
77.5°	1135.7	1070.4	919.1	683.6	457.1	323.5	229.5	143.4	103.9	97.0	96.0
80°	883.4	829.0	734.1	511.5	327.5	243.4	181.0	126.6	100.9	96.0	95.0
82.5°	630.2	611.4	531.3	397.7	273.0	208.7	163.2	121.7	99.9	95.0	94.0
85°	526.3	499.6	440.2	345.3	251.3	198.8	156.3	119.7	99.9	95.0	94.0
87.5°	508.5	484.8	430.3	329.4	236.4	187.0	149.4	115.7	97.9	93.0	93.0
90°	449.1	425.4	383.8	296.8	217.6	174.1	139.5	109.8	94.0	89.0	89.0
92.5°	397.7	383.8	344.3	272.1	208.7	167.2	134.5	106.8	92.0	88.0	87.1
95°	336.4	324.5	293.8	245.3	195.9	159.3	130.6	103.9	90.0	86.1	86.1
97.5°	279.0	269.1	245.3	207.8	169.2	141.5	117.7	97.9	87.1	84.1	84.1
100°	246.3	238.4	217.6	187.0	156.3	132.6	113.8	97.0	86.1	82.1	82.1
102.5°	233.5	225.6	204.8	177.1	148.4	126.6	110.8	95.0	85.1	81.1	80.1
105°	223.6	215.7	196.9	168.2	140.5	120.7	104.9	93.0	83.1	80.1	79.1
107.5°	213.7	204.8	187.0	158.3	133.6	114.8	100.9	90.0	82.1	79.1	79.1
110°	202.8	194.9	178.1	150.4	128.6	110.8	98.9	89.0	82.1	79.1	79.1

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

Scaled Data Report

REPORT NUMBER: P1045761
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	190.9	183.0	167.2	142.5	123.7	107.8	97.0	88.0	82.1	79.1	79.1
115°	177.1	170.2	155.3	134.5	117.7	103.9	94.0	86.1	80.1	78.2	78.2
117.5°	173.1	165.2	150.4	131.6	115.7	100.9	92.0	84.1	79.1	77.2	77.2
120°	182.0	171.1	155.3	137.5	115.7	98.9	90.0	83.1	78.2	76.2	76.2
122.5°	193.9	185.0	167.2	134.5	111.8	97.0	88.0	82.1	77.2	76.2	76.2
125°	183.0	177.1	160.3	124.7	107.8	95.0	87.1	82.1	78.2	76.2	76.2
127.5°	160.3	154.3	141.5	118.7	103.9	93.0	86.1	82.1	79.1	76.2	76.2
130°	151.4	143.4	131.6	113.8	99.9	90.0	85.1	82.1	79.1	75.2	74.2
132.5°	155.3	148.4	129.6	106.8	94.0	86.1	82.1	80.1	74.2	70.2	69.3
135°	146.4	139.5	120.7	101.9	91.0	85.1	81.1	75.2	69.3	64.3	64.3
137.5°	130.6	122.7	111.8	97.9	90.0	87.1	82.1	74.2	66.3	62.3	62.3
140°	129.6	120.7	110.8	97.0	88.0	80.1	74.2	66.3	60.3	58.4	57.4
142.5°	131.6	125.6	111.8	96.0	84.1	74.2	67.3	61.3	57.4	54.4	54.4
145°	152.4	143.4	125.6	104.9	91.0	79.1	69.3	61.3	55.4	50.5	49.5
147.5°	157.3	148.4	132.6	114.8	97.0	82.1	68.3	58.4	50.5	46.5	45.5
150°	131.6	125.6	116.7	102.9	87.1	72.2	60.3	51.4	46.5	44.5	43.5
152.5°	99.9	97.9	92.0	82.1	71.2	61.3	53.4	48.5	45.5	44.5	43.5
155°	85.1	84.1	78.2	70.2	61.3	54.4	49.5	46.5	44.5	44.5	43.5
157.5°	79.1	77.2	72.2	64.3	56.4	52.4	47.5	45.5	44.5	44.5	44.5
160°	66.3	64.3	60.3	57.4	52.4	49.5	46.5	45.5	44.5	44.5	43.5
162.5°	59.4	57.4	55.4	52.4	51.4	50.5	49.5	47.5	46.5	45.5	45.5
165°	56.4	55.4	52.4	51.4	51.4	52.4	52.4	50.5	48.5	46.5	46.5
167.5°	55.4	54.4	52.4	51.4	53.4	54.4	55.4	53.4	51.4	48.5	47.5
170°	55.4	55.4	54.4	53.4	54.4	55.4	56.4	56.4	55.4	53.4	53.4
172.5°	55.4	56.4	55.4	55.4	55.4	55.4	55.4	57.4	57.4	56.4	56.4
175°	59.4	59.4	56.4	55.4	56.4	57.4	58.4	57.4	57.4	58.4	58.4
177.5°	54.4	56.4	60.3	61.3	63.3	63.3	61.3	60.3	57.4	56.4	56.4
180°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5

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

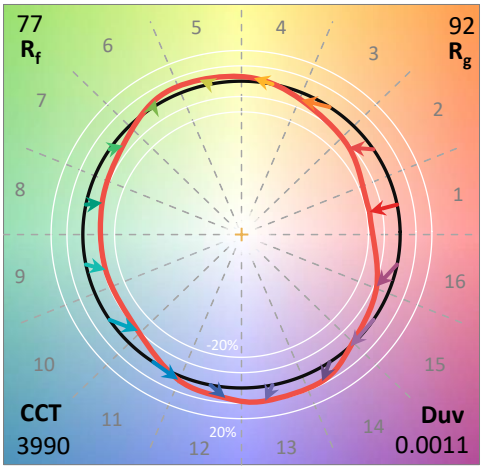
Test Information

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

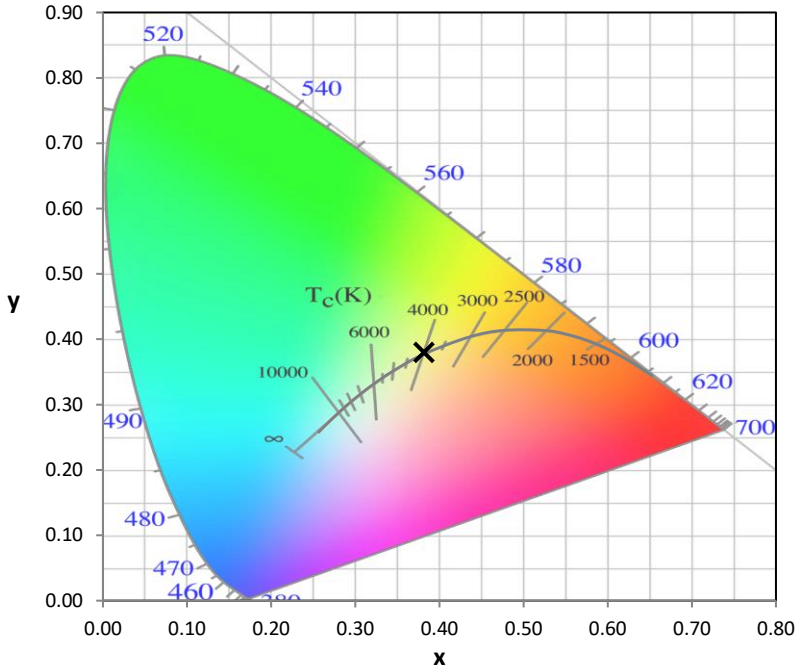
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

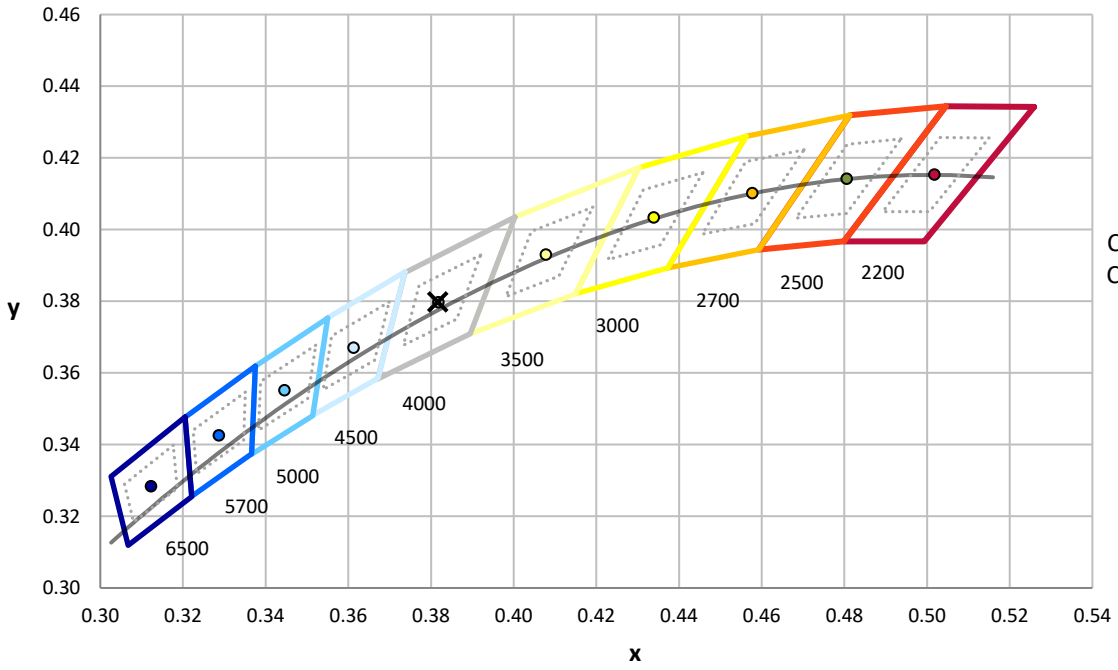
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

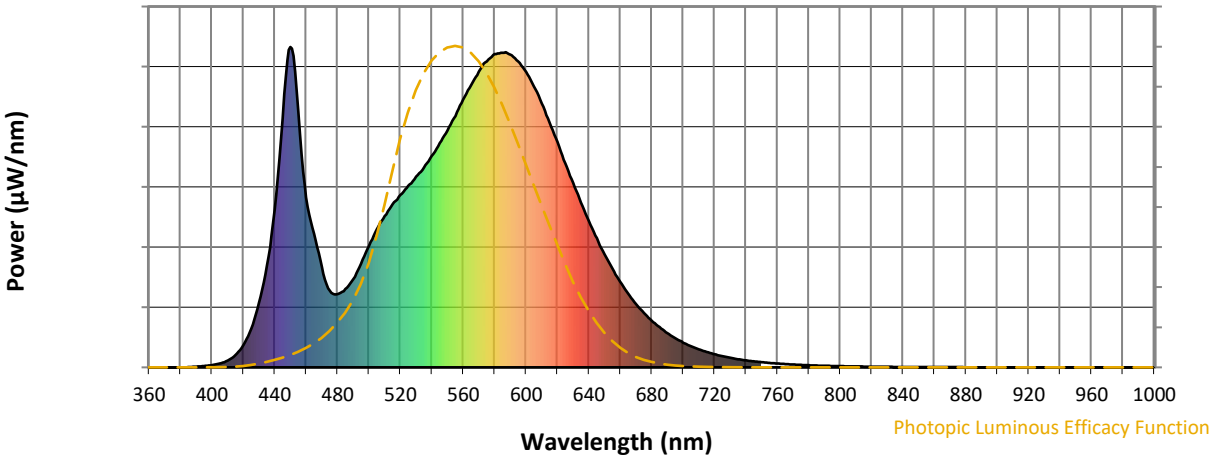


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

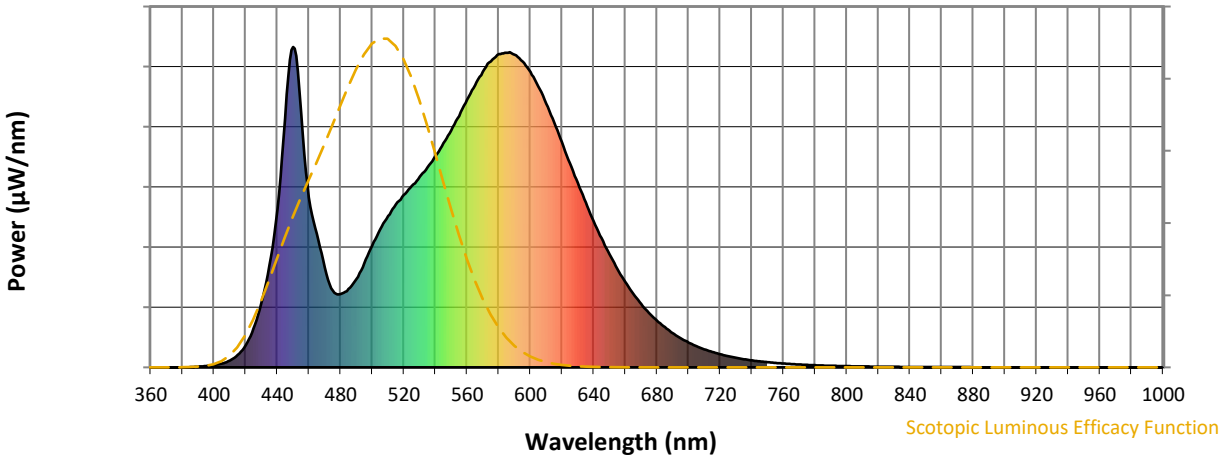


Photopic Lumens: NR

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

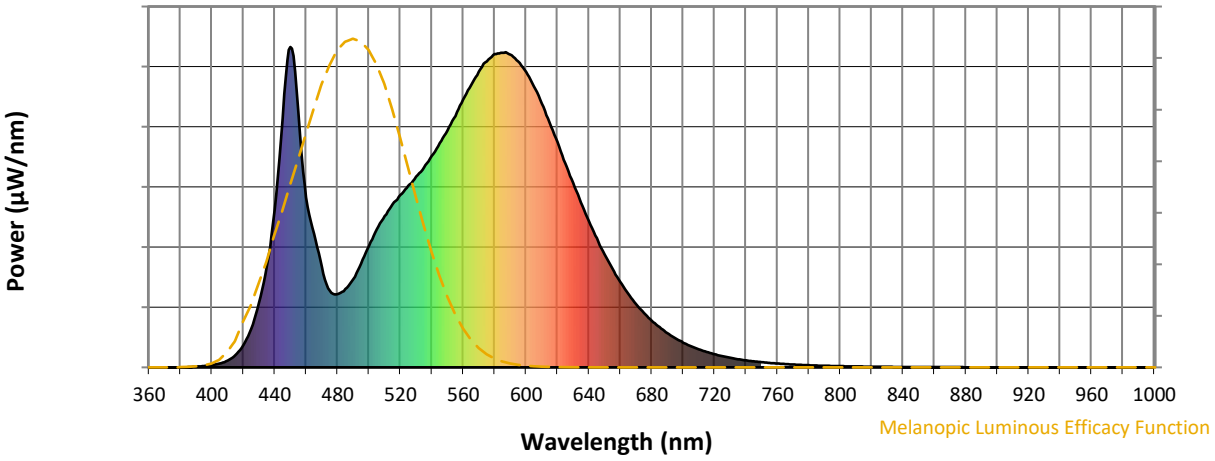


Scotopic Lumens: NR **S/P: 1.59**

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			

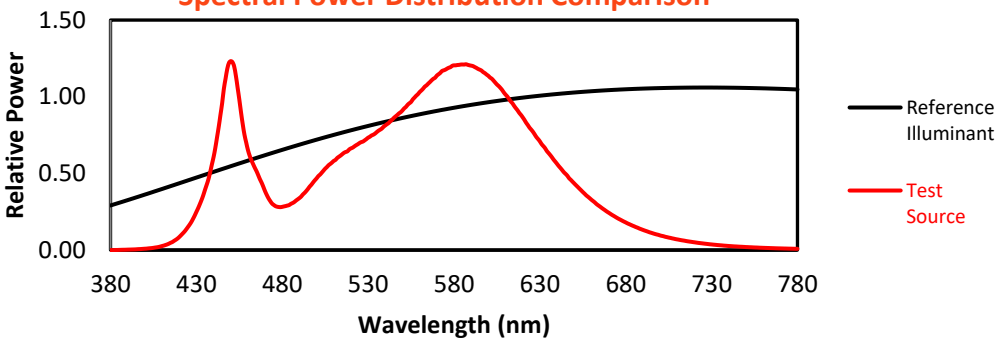
REPORT NUMBER: SP1-2501-332-1

TM-30-18

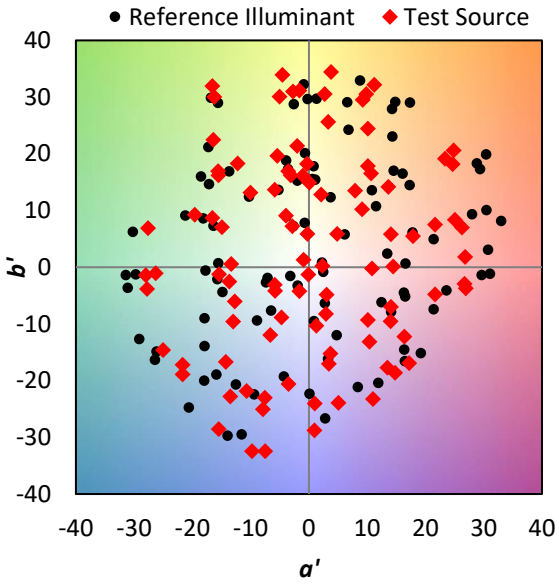
Summary

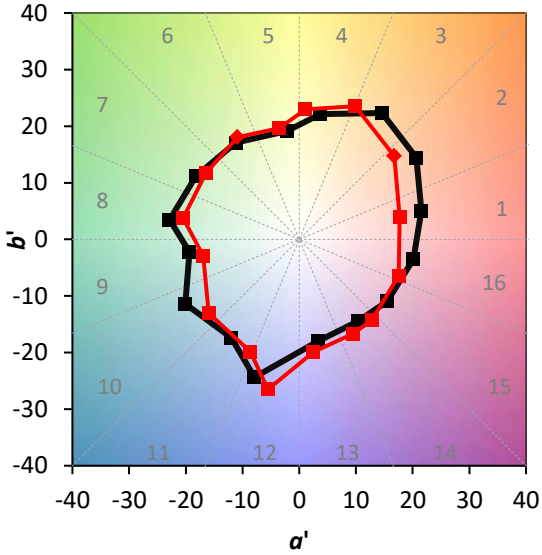
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

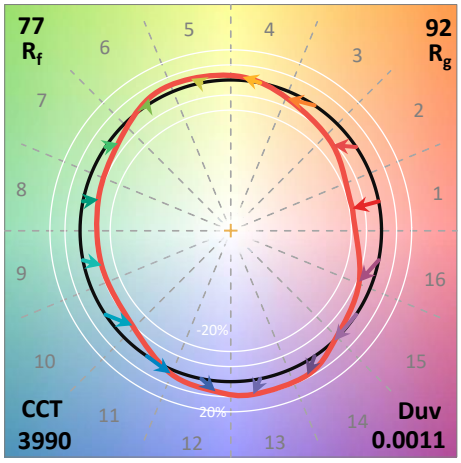
Spectral Power Distribution Comparison

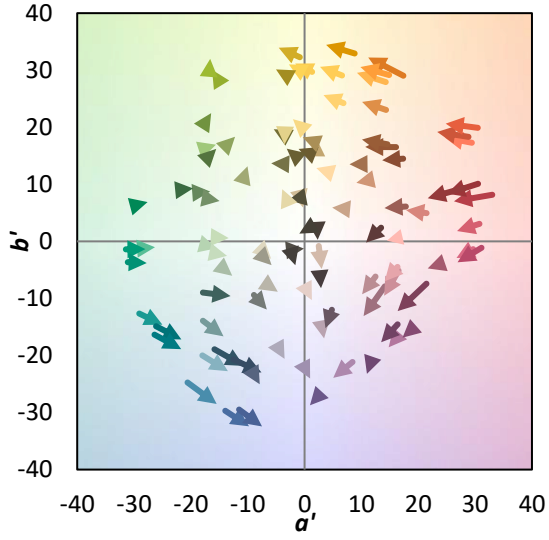


Color Vector Graphics







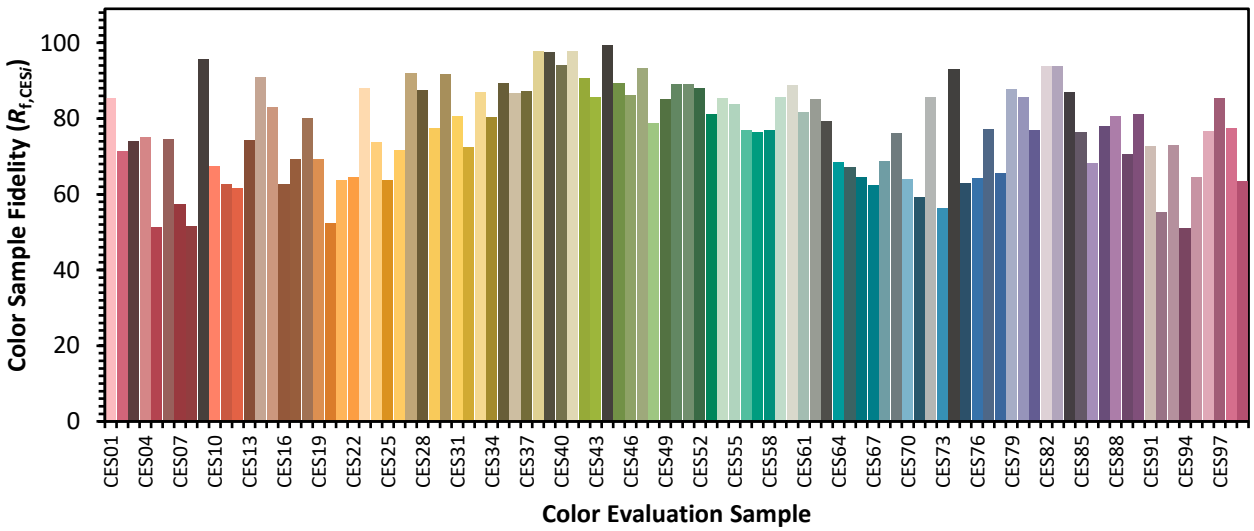


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

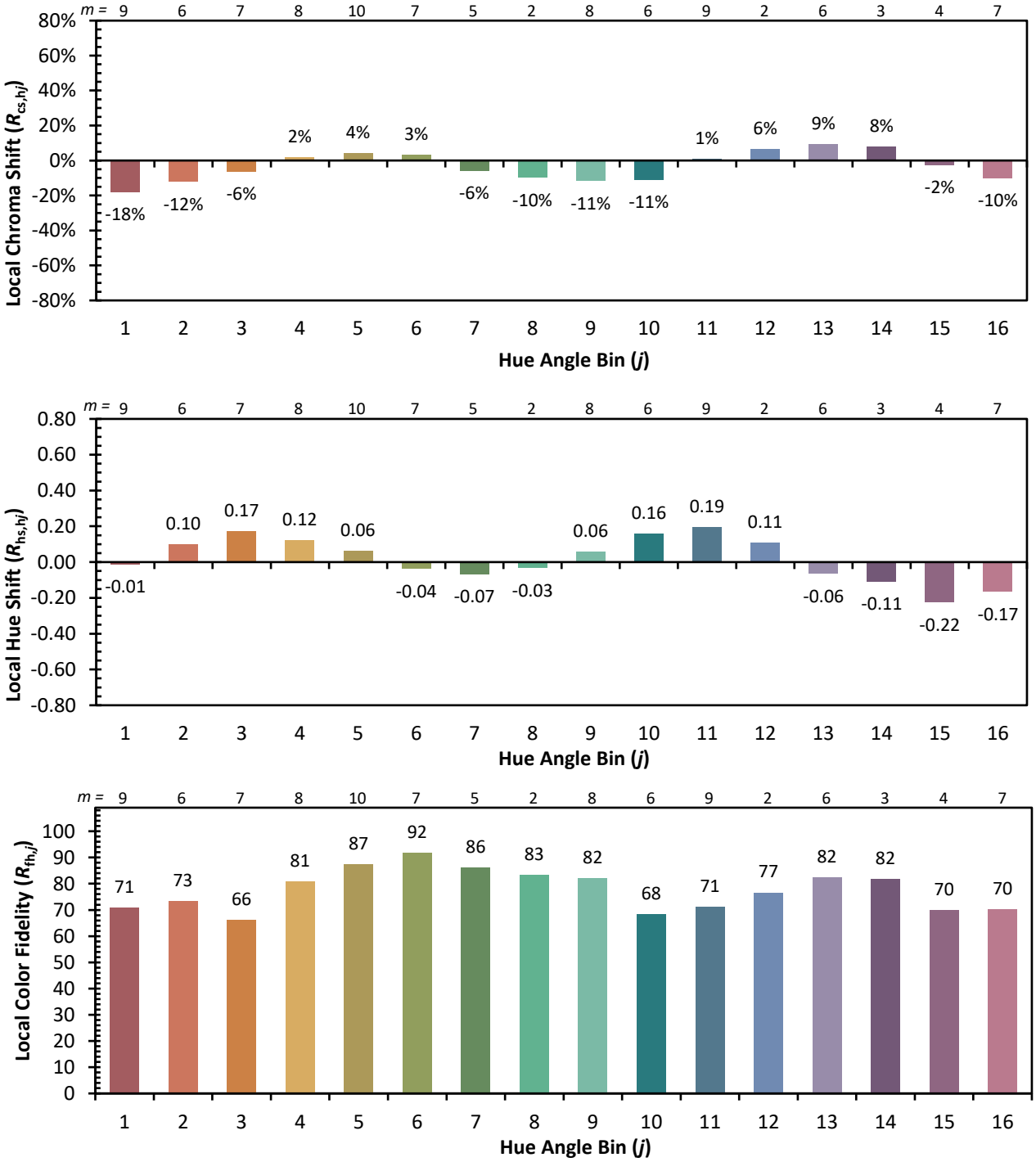
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82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

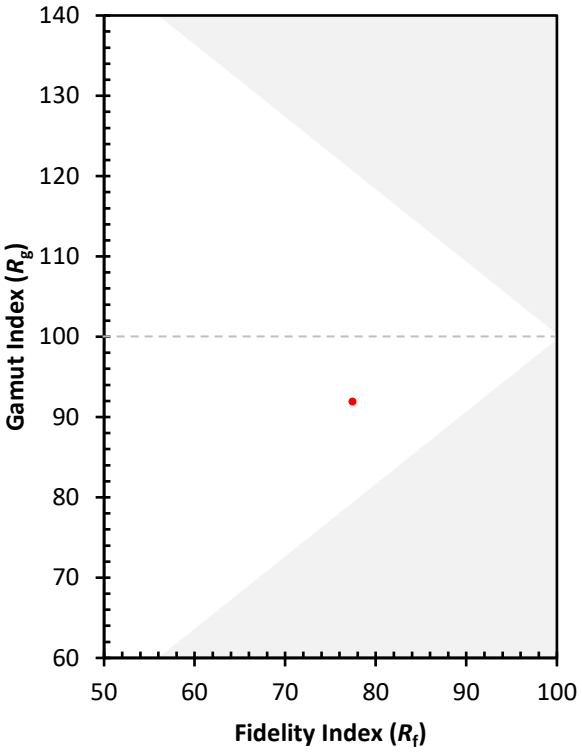
Color Rendition by Hue-Angle Bin

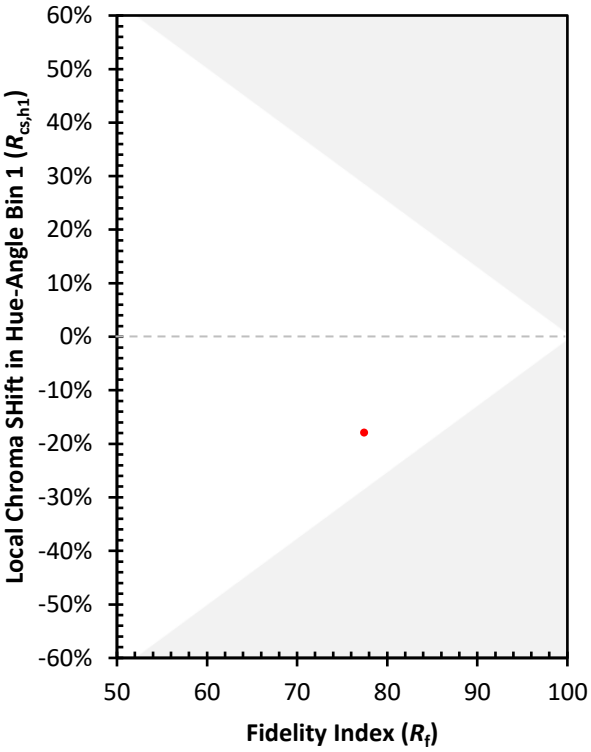


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)