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: P1046627

Luminaire Tested: **FFX-CLB-60-750-U-FR-T3-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:	P1046627
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-750-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8826.9 lumens
Efficiency:	N/A
Efficacy:	145.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - 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

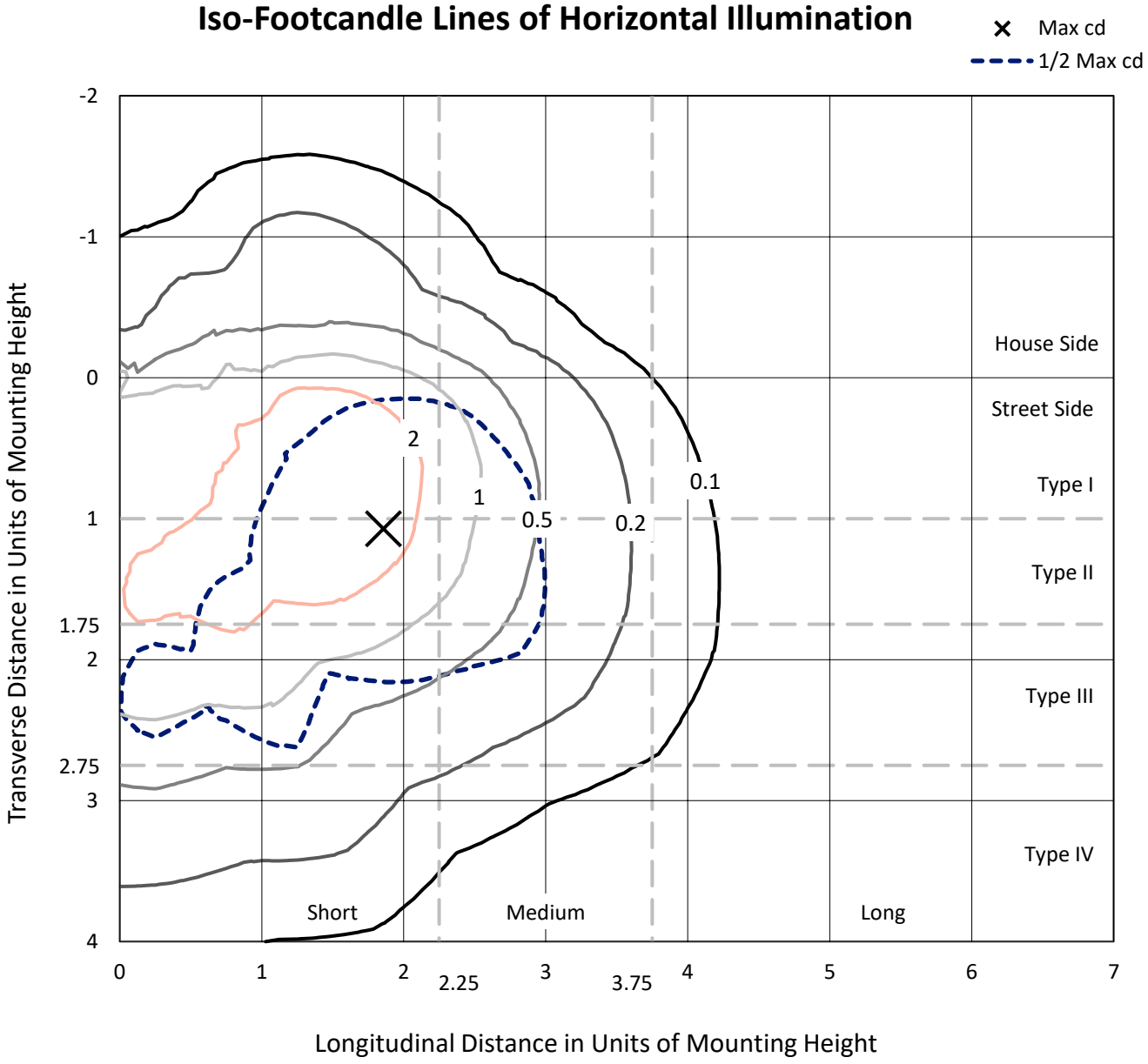


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046627
CATALOG NUMBER: FFX-CLB-60-750-U-FR-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



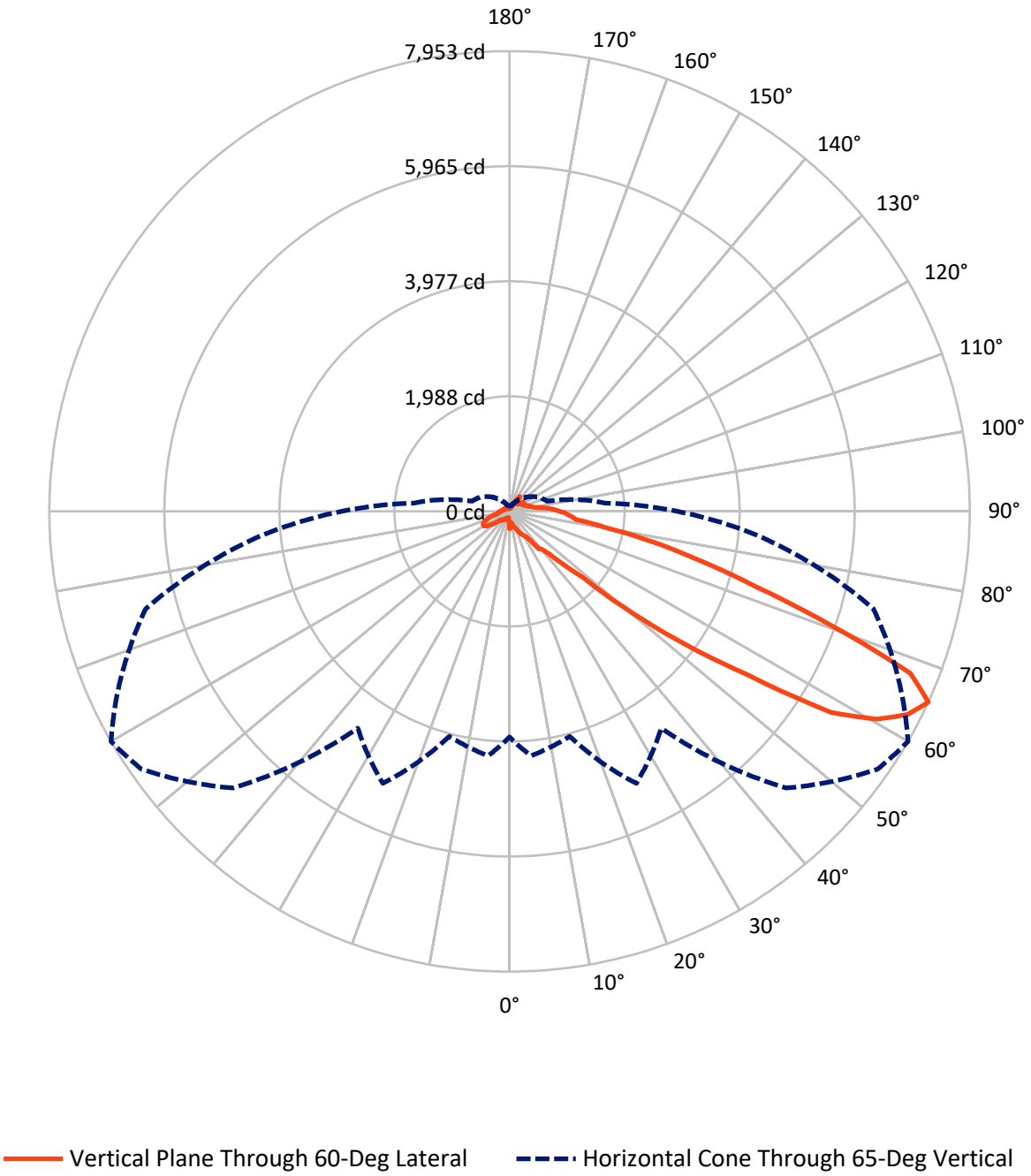
Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046627
CATALOG NUMBER: FFX-CLB-60-750-U-FR-T3-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

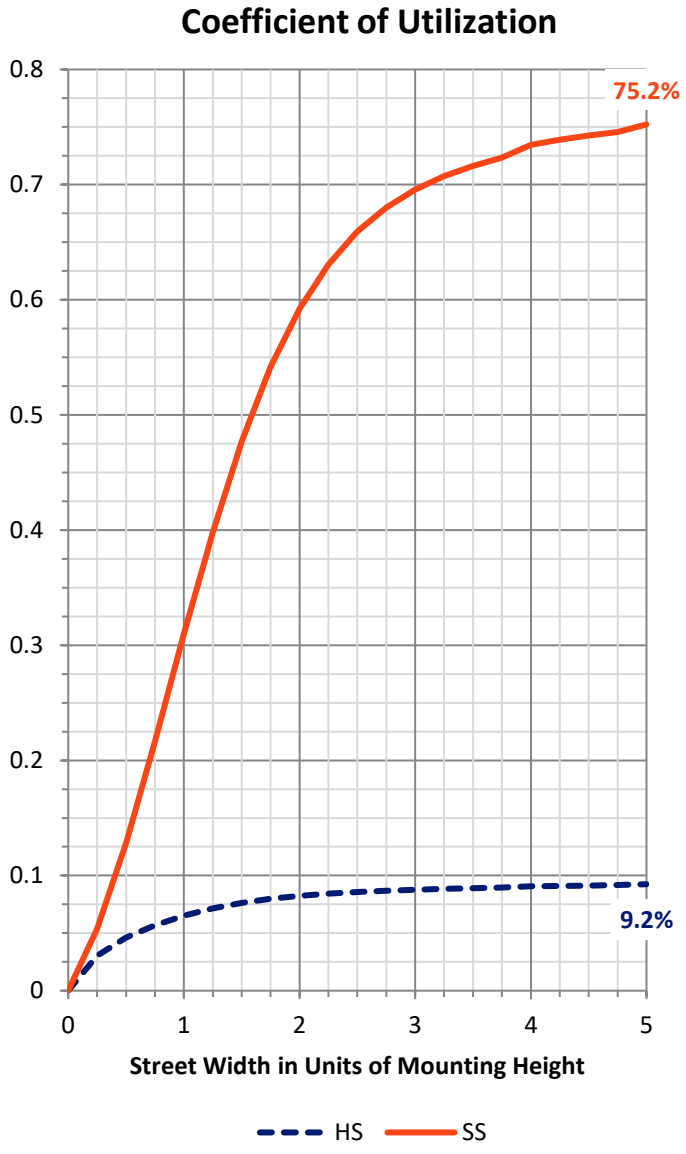
REPORT NUMBER: P1046627
CATALOG NUMBER: FFX-CLB-60-750-U-FR-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	855.8	276.2	1132.1
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	6878.4	816.5	7694.9
	% Fixture	77.9	9.2	87.2
Total	Lumens	7734.2	1092.7	8826.9
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	0.2
10°-20°	56.5	0.6
20°-30°	120.8	1.4
30°-40°	247.9	2.8
40°-50°	580.9	6.6
50°-60°	1817.0	20.6
60°-70°	2845.0	32.2
70°-80°	1505.0	17.1
80°-90°	545.0	6.2
90°-100°	328.6	3.7
100°-110°	205.8	2.3
110°-120°	166.4	1.9
120°-130°	138.8	1.6
130°-140°	101.1	1.1
140°-150°	92.9	1.1
150°-160°	38.7	0.4
160°-170°	15.4	0.2
170°-180°	5.0	0.1
0°-90°	7734.2	87.6
0°-180°	8826.9	100.0



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

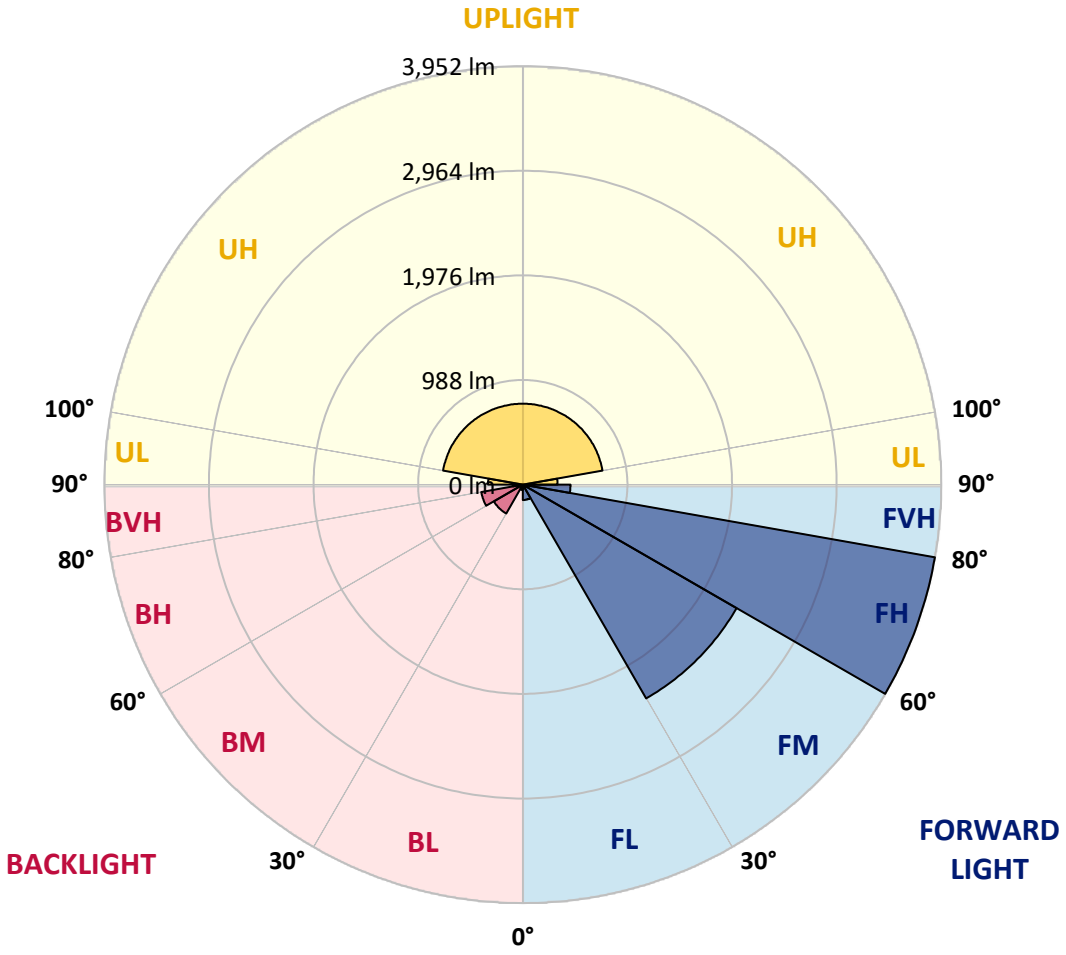
Scaled Data Report

REPORT NUMBER: P1046627
CATALOG NUMBER: FFX-CLB-60-750-U-FR-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	145.5	1.6			
FM	(30°-60°)	2331.0	26.4			
FH	(60°-80°)	3951.6	44.8			G2/5000
FVH	(80°-90°)	450.3	5.1			G3/500
BL	(0°-30°)	48.0	0.5	B0/110		
BM	(30°-60°)	314.8	3.6	B1/1000		
BH	(60°-80°)	398.4	4.5	B1/500		G1/500
BVH	(80°-90°)	94.7	1.1			G1/100
UL	(90°-100°)	328.6	3.7		U3/500	
UH	(100°-180°)	764.1	8.7		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1046627
CATALOG NUMBER: FFX-CLB-60-750-U-FR-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	165.3	171.7	209.2	247.9	258.9	235.0	203.4	207.2	224.7	307.9	344.7
5°	193.7	195.6	192.4	196.9	224.0	258.2	238.2	215.0	184.0	133.0	131.7
7.5°	222.7	222.7	221.4	205.3	186.6	180.8	198.2	201.4	198.2	165.3	142.7
10°	242.7	242.7	242.1	243.4	244.7	238.2	209.8	198.8	187.2	173.0	166.6
12.5°	294.4	295.7	304.1	299.6	282.8	265.3	268.6	265.3	247.9	217.6	192.4
15°	360.2	362.8	364.1	347.3	320.2	287.9	267.3	262.1	258.9	241.4	216.3
17.5°	394.5	393.2	377.7	360.2	342.8	319.6	300.2	292.5	280.8	258.9	231.8
20°	390.6	390.6	375.1	371.2	372.5	358.3	333.8	324.1	311.2	290.5	253.1
22.5°	401.6	402.2	392.5	395.7	409.9	395.7	371.9	365.4	353.1	323.4	285.3
25°	443.5	443.5	432.5	428.0	440.3	435.1	421.6	413.8	396.4	360.2	293.1
27.5°	481.6	479.0	468.7	470.0	458.4	455.8	452.6	449.3	433.8	376.4	297.0
30°	511.3	511.3	502.3	508.1	483.5	487.4	475.8	484.8	464.8	398.3	311.8
32.5°	538.4	542.3	539.1	546.8	517.8	534.5	514.5	524.2	511.9	437.7	353.8
35°	601.0	605.6	620.4	639.8	604.3	621.7	590.1	603.6	591.4	526.8	434.5
37.5°	849.6	842.5	810.2	778.6	744.4	816.0	808.3	821.2	801.8	697.9	548.7
40°	854.8	850.9	844.4	824.4	759.9	830.9	834.1	857.3	915.4	748.9	593.3
42.5°	876.7	881.2	958.0	967.7	919.3	1029.7	999.4	1000.7	1199.5	887.0	765.7
45°	1014.2	1014.2	1038.7	1051.0	1036.8	1353.8	1349.3	1310.5	1561.0	1106.5	900.6
47.5°	1162.7	1167.2	1212.4	1333.8	1413.2	1713.4	1802.5	1709.5	2038.1	1451.9	1240.8
50°	1597.2	1606.2	1747.0	1853.5	2002.6	2508.1	2946.5	2805.1	3320.9	2215.0	1869.6
52.5°	1911.6	2023.9	2101.4	2502.3	2560.4	3337.0	3902.6	3854.1	4200.2	3065.9	2269.2
55°	2275.0	2450.0	2501.6	3123.3	3227.3	4306.1	4892.9	4978.8	5000.1	3963.3	2667.6
57.5°	2873.5	3144.6	3154.3	3811.5	3829.6	5428.1	6362.2	6551.4	6335.8	5007.8	3295.7
60°	3366.7	3684.4	3577.8	4472.6	4293.1	6335.8	7076.9	7291.2	6891.0	5900.7	3734.7
62.5°	3672.1	3978.7	3838.7	4937.4	4572.0	6725.1	7503.6	7723.8	7283.5	6375.2	4072.4
65°	3900.0	4240.2	4024.6	5185.3	4571.4	6759.9	7767.0	7953.0	7481.7	6511.4	4171.8
67.5°	3904.5	4209.9	3940.7	5096.9	4267.3	6208.0	7355.8	7473.3	6950.4	6027.8	3876.1
70°	3413.2	3632.7	3333.8	4301.5	3442.3	4711.5	5744.4	5883.9	5357.7	4634.0	3003.3
72.5°	2856.1	2941.9	2645.6	3440.3	2696.0	3565.6	4391.3	4443.6	4165.3	3471.3	2321.5
75°	2242.8	2209.8	2056.2	2564.9	2049.7	2526.2	3448.7	3398.4	3245.4	2554.6	1771.5
77.5°	1496.5	1435.1	1442.9	1759.9	1431.9	1671.4	2511.3	2513.3	2459.7	1894.1	1263.4
80°	912.9	914.8	889.6	1116.2	945.1	1111.1	1730.8	1674.0	1675.3	1249.2	884.5
82.5°	714.0	725.6	694.0	804.4	744.4	883.8	1131.1	1162.7	1128.5	917.4	651.4
85°	701.1	711.4	678.5	746.9	707.6	844.4	1063.9	1061.3	1043.3	850.9	615.9
87.5°	642.4	654.6	630.1	677.9	647.5	781.8	979.4	966.4	949.0	800.5	587.5
90°	542.3	564.9	548.1	607.5	565.5	672.7	851.5	846.4	837.3	707.6	522.9
92.5°	493.2	497.7	485.5	539.1	492.6	589.4	756.0	739.8	719.8	614.0	445.5
95°	441.6	439.6	428.0	471.3	430.0	493.2	642.4	617.8	607.5	518.4	371.9
97.5°	353.8	354.4	348.6	378.3	348.6	393.8	482.3	473.2	452.6	387.4	284.7
100°	309.9	311.8	307.9	331.2	306.0	335.1	401.6	399.6	382.8	330.5	248.6
102.5°	293.1	293.7	298.9	313.1	289.2	310.5	366.0	366.7	355.7	307.9	233.7
105°	281.5	280.8	284.7	296.3	275.7	291.2	342.2	342.2	326.7	290.5	221.4
107.5°	272.4	271.1	277.6	287.3	273.1	277.6	317.0	319.6	304.7	270.5	210.5
110°	262.1	261.5	272.4	279.5	266.0	266.6	300.8	298.9	285.3	263.4	207.2

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

Scaled Data Report

REPORT NUMBER: P1046627
CATALOG NUMBER: FFX-CLB-60-750-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	266.0	269.9	282.1	262.1	242.1	243.4	269.9	*273.1*	263.4	240.8	196.9
115°	262.8	266.6	282.8	254.4	224.7	232.4	254.4	*256.9*	242.7	224.0	185.3
117.5°	251.1	252.4	262.1	255.0	224.0	233.1	244.0	*248.6*	238.2	224.0	187.2
120°	297.0	287.3	287.3	276.3	241.4	257.6	278.2	*282.1*	272.4	246.0	186.6
122.5°	273.1	269.9	270.5	256.3	238.9	252.4	277.0	*283.4*	275.0	248.6	186.6
125°	215.0	215.6	212.4	216.9	209.8	214.3	227.2	*237.6*	229.8	215.6	177.5
127.5°	195.6	195.0	191.1	210.5	188.5	197.5	209.8	*215.6*	207.9	191.7	160.8
130°	190.4	190.4	201.4	221.4	208.5	204.7	200.1	*205.9*	204.7	194.3	160.8
132.5°	178.2	178.8	195.0	220.8	215.6	197.5	181.4	*184.6*	190.4	193.0	169.8
135°	178.2	176.2	171.1	176.9	173.7	178.2	173.7	*178.2*	179.5	178.2	148.5
137.5°	189.8	188.5	175.6	167.9	168.5	182.7	183.3	*185.3*	183.3	173.0	144.0
140°	185.9	181.4	172.4	169.1	169.8	184.6	190.4	*191.7*	189.8	169.8	135.6
142.5°	179.5	179.5	182.1	185.9	191.7	260.8	242.7	*259.5*	260.2	239.5	139.4
145°	257.6	260.2	252.4	244.0	264.7	313.8	295.0	*313.1*	325.4	302.8	192.4
147.5°	232.4	236.3	231.8	224.7	251.8	252.4	240.8	*242.7*	246.0	251.1	194.3
150°	164.6	160.1	167.2	162.0	189.2	187.9	171.7	*175.6*	182.7	183.3	154.9
152.5°	122.0	120.1	118.8	118.1	136.2	125.2	119.4	*117.5*	118.8	118.1	111.0
155°	107.8	107.8	107.2	110.4	120.1	112.3	106.5	*107.2*	103.9	102.0	98.1
157.5°	83.9	82.0	83.9	89.7	93.6	86.5	84.6	*83.3*	82.6	79.4	80.7
160°	69.1	69.1	70.4	74.9	77.5	72.3	68.4	*67.1*	67.1	65.8	70.4
162.5°	58.7	58.7	60.0	61.3	62.6	60.0	58.7	*58.7*	58.1	58.1	62.6
165°	49.1	49.1	49.7	52.3	52.9	51.6	51.0	*51.6*	51.6	54.2	58.1
167.5°	45.2	45.2	45.8	47.1	47.8	47.1	49.1	*51.0*	52.9	55.5	56.8
170°	43.3	43.3	43.9	44.5	45.8	47.1	51.0	*52.3*	52.9	52.3	52.3
172.5°	44.5	44.5	44.5	45.8	47.1	50.4	53.6	*53.6*	52.3	51.0	51.0
175°	45.2	44.5	45.2	46.5	48.4	50.4	51.6	*52.9*	52.9	52.3	52.3
177.5°	44.5	44.5	45.2	45.8	45.8	45.8	46.5	*47.1*	47.1	47.8	48.4
180°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	*43.9*	43.9	43.9	43.9

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

Scaled Data Report

REPORT NUMBER: P1046627
CATALOG NUMBER: FFX-CLB-60-750-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	337.6	318.9	236.3	156.9	192.4	280.8	327.3	306.7	228.5	131.7	111.7
5°	138.2	154.9	180.8	173.0	155.6	127.8	96.2	95.5	132.3	160.8	163.3
7.5°	133.0	122.0	115.6	127.8	119.4	82.6	69.7	58.1	62.0	91.0	87.2
10°	164.0	160.1	149.1	122.0	89.7	74.2	69.7	71.0	76.2	68.4	67.8
12.5°	182.7	173.0	149.1	141.4	120.1	85.2	70.4	65.2	69.7	87.2	94.3
15°	200.1	185.9	156.2	131.1	107.8	88.4	75.5	65.8	58.7	51.0	50.4
17.5°	215.6	197.5	164.6	136.2	107.2	88.4	73.0	57.5	49.7	47.1	47.1
20°	234.3	217.6	175.6	142.0	107.8	86.5	70.4	56.8	49.7	47.1	47.1
22.5°	259.5	231.8	187.2	144.6	109.1	85.9	69.1	58.1	51.6	47.8	47.8
25°	266.6	245.3	195.0	153.0	114.3	89.1	72.3	60.0	52.9	49.7	49.1
27.5°	271.8	255.7	209.8	160.1	120.1	95.5	77.5	62.6	54.2	51.0	50.4
30°	291.8	277.6	226.0	170.4	127.8	102.0	82.0	66.5	56.8	51.6	50.4
32.5°	334.4	314.4	249.8	180.8	137.5	109.1	87.8	70.4	59.4	52.9	51.6
35°	415.8	399.6	313.1	202.1	147.8	118.1	94.9	75.5	62.6	54.9	54.2
37.5°	510.0	484.8	380.3	235.0	154.9	125.9	102.0	80.7	65.8	58.1	56.8
40°	526.2	454.5	337.0	214.3	156.2	129.8	108.5	86.5	69.7	60.7	58.7
42.5°	659.8	557.8	390.6	221.4	159.5	129.8	109.7	90.4	73.6	62.6	61.3
45°	697.9	555.8	388.6	247.3	175.0	133.6	110.4	92.3	76.8	65.8	63.9
47.5°	889.6	681.7	394.5	262.8	191.1	147.2	114.9	93.6	77.5	67.8	67.1
50°	1271.8	911.6	474.5	317.0	229.2	171.7	129.1	98.1	78.8	69.7	69.1
52.5°	1570.7	1082.6	509.4	379.6	291.8	218.2	154.3	109.7	81.3	70.4	69.1
55°	1867.0	1291.2	573.9	448.0	347.3	262.8	191.7	128.5	87.8	71.7	70.4
57.5°	2318.9	1550.1	654.0	515.2	411.9	304.7	214.3	145.3	95.5	73.0	71.0
60°	2593.3	1641.7	662.4	549.4	448.7	334.4	222.1	151.7	105.2	78.1	74.9
62.5°	2839.9	1724.4	668.2	564.9	455.1	337.6	222.7	146.5	107.2	85.9	82.0
65°	*2903.8*	*1657.2*	*674.0*	*570.1*	*443.5*	*318.9*	*214.3*	*141.4*	*102.0*	*93.0*	*92.3*
67.5°	2759.2	1486.1	634.0	550.7	412.5	286.6	193.0	134.3	99.4	90.4	92.3
70°	2149.8	1180.1	581.0	507.4	356.4	242.1	171.7	125.2	98.1	85.9	83.9
72.5°	1694.0	1003.9	586.8	483.5	300.8	214.3	151.7	114.3	93.0	83.9	82.6
75°	1319.6	841.2	564.9	416.4	244.0	182.7	133.0	102.0	86.5	80.7	80.1
77.5°	967.7	667.5	466.1	320.9	201.4	152.4	116.2	93.6	82.0	76.8	76.2
80°	634.6	471.9	324.7	256.3	173.7	137.5	105.9	87.8	78.8	74.2	73.6
82.5°	539.7	419.0	288.6	235.6	160.8	132.3	103.9	85.9	78.1	73.0	72.3
85°	520.3	429.3	295.0	244.0	153.0	126.5	100.7	84.6	76.2	71.7	71.0
87.5°	488.7	388.6	285.3	218.9	141.4	115.6	94.3	81.3	73.0	69.1	67.8
90°	435.1	332.5	245.3	187.9	134.3	108.5	89.1	77.5	71.0	67.1	65.8
92.5°	351.2	252.4	193.0	165.9	131.1	107.8	88.4	77.5	71.0	67.1	65.8
95°	295.0	216.3	173.0	151.7	122.0	102.0	84.6	74.9	69.1	65.2	65.2
97.5°	233.7	180.8	154.3	136.2	109.7	93.0	80.1	71.7	66.5	62.6	62.6
100°	207.2	167.9	146.5	127.8	103.9	87.8	78.1	69.7	65.2	60.7	60.7
102.5°	196.9	162.7	144.6	121.4	99.4	84.6	74.9	67.1	63.3	58.7	58.7
105°	190.4	160.8	143.3	118.1	94.9	80.7	71.7	63.9	60.7	57.5	56.8
107.5°	184.0	158.2	145.3	116.2	91.0	78.1	71.7	63.3	59.4	56.8	56.8
110°	180.8	159.5	144.6	114.3	89.7	77.5	71.0	63.9	60.7	58.1	57.5

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

Scaled Data Report

REPORT NUMBER: P1046627
CATALOG NUMBER: FFX-CLB-60-750-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	172.4	152.4	138.2	108.5	87.8	75.5	68.4	63.3	58.7	56.2	55.5
115°	164.0	140.1	126.5	103.3	83.3	73.0	66.5	61.3	56.8	54.9	54.9
117.5°	167.2	136.9	116.2	101.4	82.0	71.0	65.2	60.0	56.2	54.9	54.2
120°	165.3	144.0	130.4	108.5	81.3	69.1	63.9	58.7	55.5	54.9	54.9
122.5°	158.2	155.6	143.3	110.4	78.8	69.7	65.2	60.7	57.5	55.5	55.5
125°	152.4	151.1	133.6	99.4	80.7	72.3	68.4	63.9	62.0	60.0	59.4
127.5°	140.7	126.5	111.0	95.5	82.0	73.6	69.7	67.1	65.2	62.0	61.3
130°	141.4	129.8	114.3	96.2	78.8	72.3	70.4	67.8	64.6	59.4	58.7
132.5°	153.6	141.4	113.6	89.1	75.5	72.3	71.0	67.8	60.7	54.9	54.2
135°	127.8	119.4	100.7	85.2	76.8	74.9	74.2	67.1	56.8	52.9	52.3
137.5°	124.6	112.3	96.8	85.9	80.1	76.2	73.6	64.6	52.9	49.1	47.8
140°	117.5	105.9	94.9	87.2	77.5	64.6	58.7	54.2	49.1	45.8	45.2
142.5°	117.5	106.5	89.7	76.8	67.1	60.0	56.8	52.9	47.1	42.6	41.3
145°	138.8	125.9	108.5	97.5	87.2	76.2	65.2	53.6	43.9	38.1	37.4
147.5°	157.5	142.0	128.5	110.4	93.6	75.5	60.0	47.1	40.0	37.4	37.4
150°	129.1	114.9	107.8	92.3	77.5	62.0	51.0	43.9	40.0	38.7	38.7
152.5°	96.8	81.3	76.2	67.8	58.7	51.0	45.8	42.0	40.7	40.0	40.0
155°	90.4	77.5	71.0	63.3	54.2	47.8	44.5	42.6	41.3	40.7	40.7
157.5°	78.8	71.7	63.3	57.5	51.0	46.5	44.5	43.3	42.0	41.3	41.3
160°	70.4	65.2	57.5	52.9	48.4	46.5	46.5	45.8	43.9	43.3	43.3
162.5°	63.3	61.3	54.2	50.4	48.4	49.1	52.3	51.6	48.4	45.8	45.2
165°	58.7	56.8	51.6	49.7	48.4	51.0	57.5	56.2	51.0	47.8	47.8
167.5°	56.2	54.9	51.0	49.1	49.7	54.9	60.7	61.3	56.8	52.3	51.6
170°	51.6	51.6	51.0	51.6	51.6	54.2	57.5	59.4	59.4	60.7	60.0
172.5°	51.0	51.6	53.6	53.6	52.9	53.6	56.2	59.4	61.3	63.3	63.9
175°	52.3	52.9	54.2	54.9	54.9	56.2	60.0	62.6	63.9	63.3	63.3
177.5°	48.4	49.1	49.7	52.3	53.6	54.9	58.7	60.0	61.3	62.6	62.6
180°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9

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: SP1-2501-332-5

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

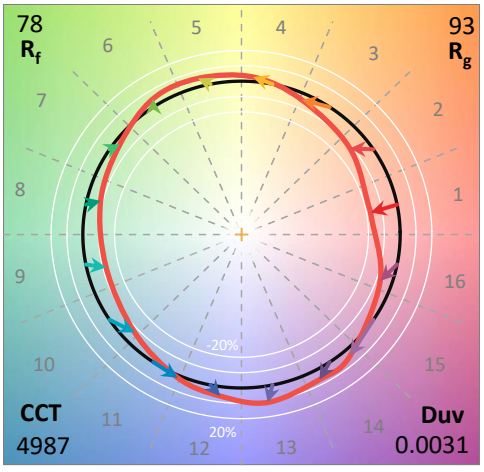
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
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-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	4987	CRI (Ra):	75.8		
CIE u':	0.2094	R1:	71.6	R9:	-30.4
CIE v':	0.4882	R2:	82.8	R10:	59.9
Duv:	0.0031	R3:	91.2	R11:	70.9
CIE x:	0.3461	R4:	73.8	R12:	51.2
CIE y:	0.3586	R5:	73.0	R13:	74.2
CIE z:	0.2954	R6:	76.1	R14:	95.3
Peak Wavelength (nm):	450	R7:	82.9	R15:	63.7
Dominant Wavelength (nm):	570	R8:	54.9		
Purity:	11.4				

Rf:	78.3
Rg:	93.4



Test Conditions

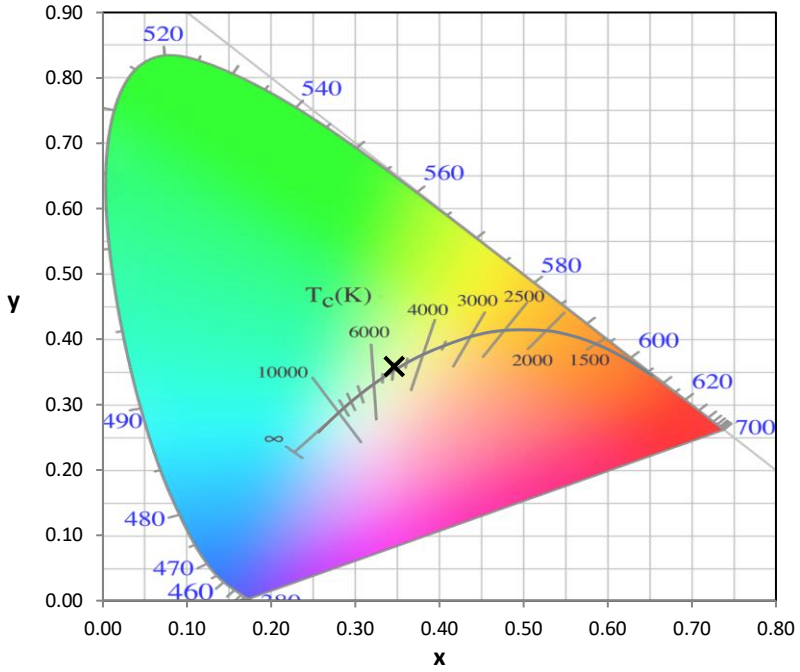
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

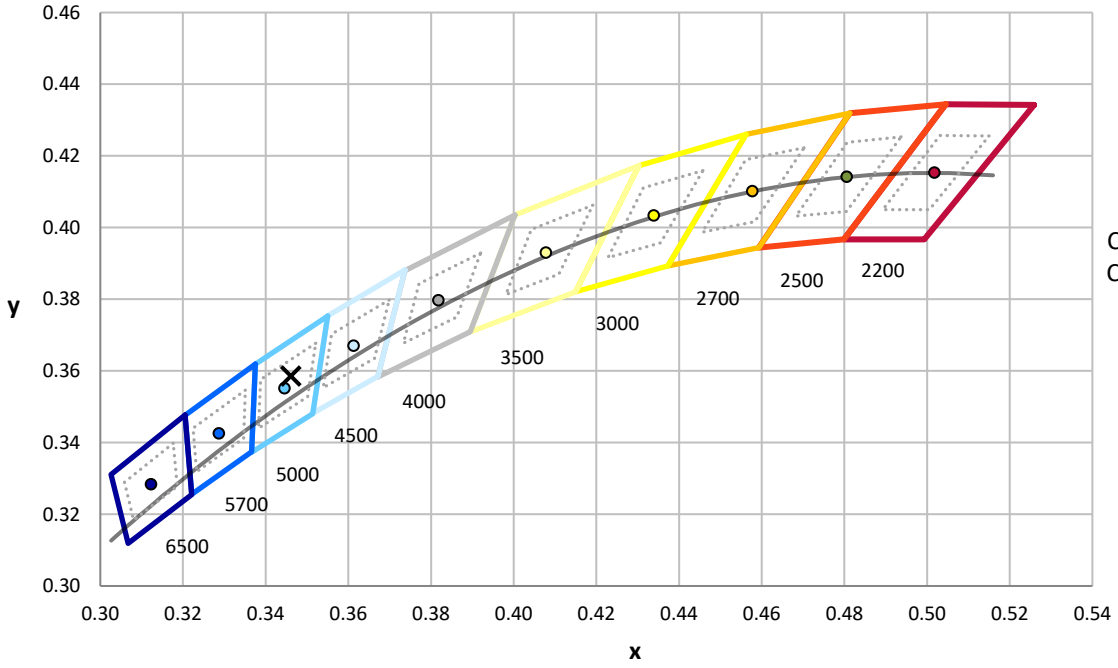
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

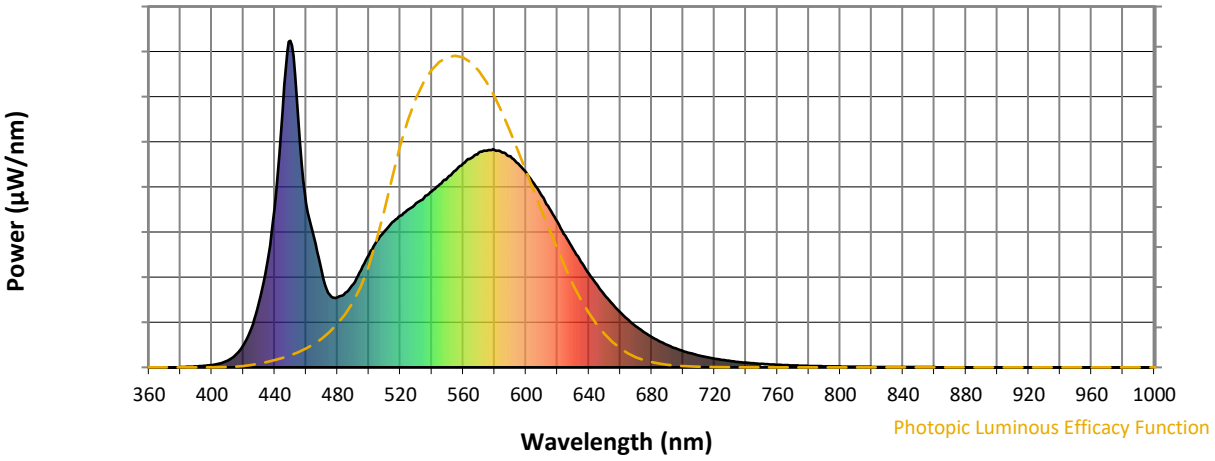


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

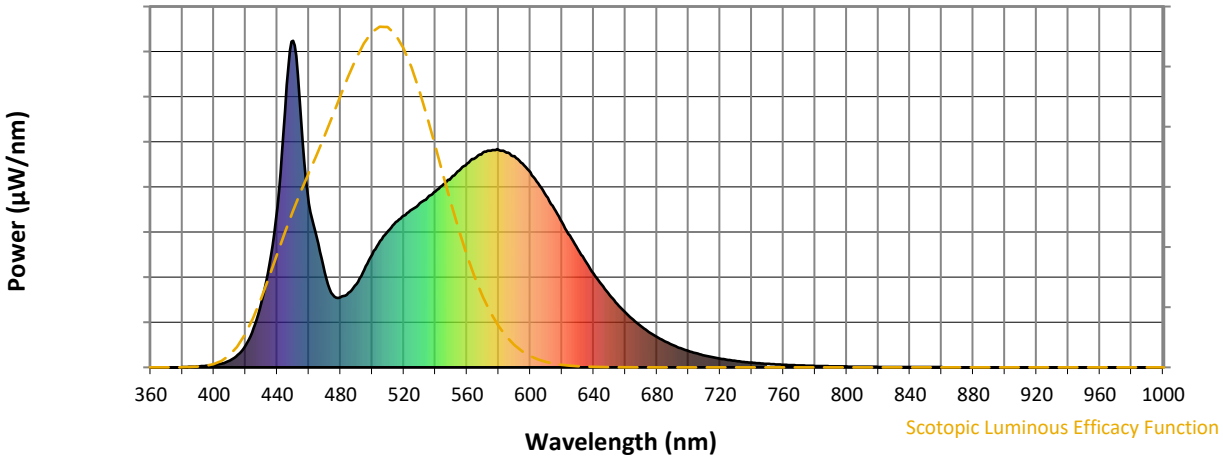


Photopic Lumens: NR

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

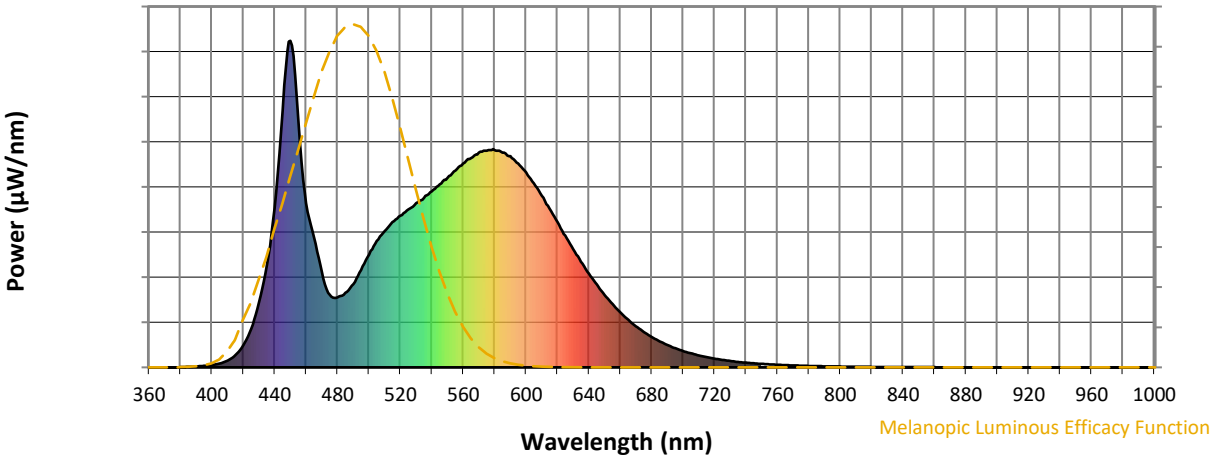


Scotopic Lumens: NR **S/P: 1.87**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.92**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

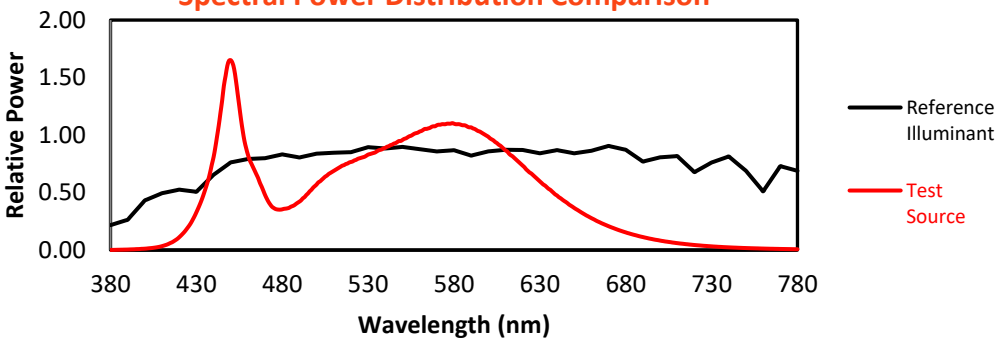
REPORT NUMBER: SP1-2501-332-5

TM-30-18

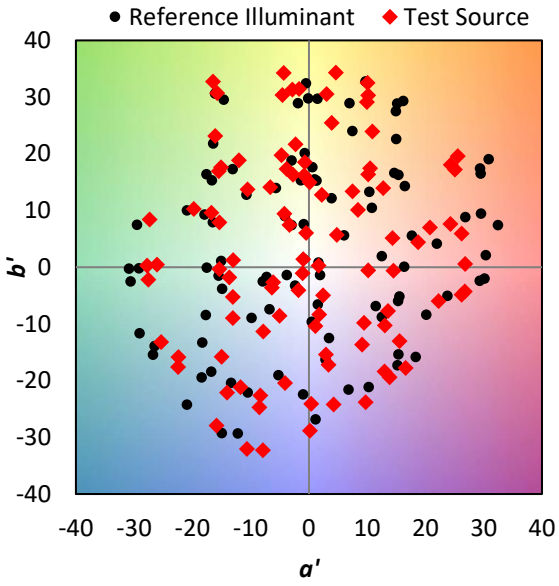
Summary

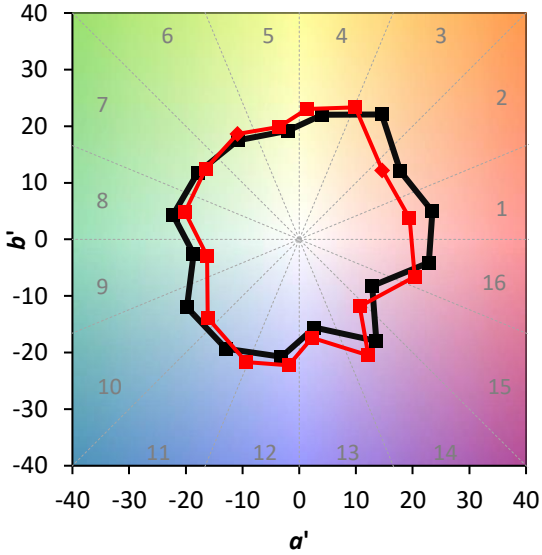
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

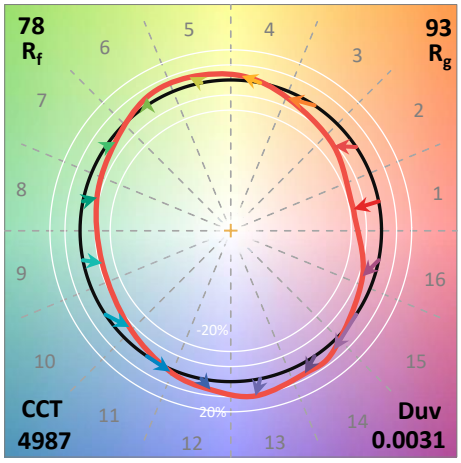
Spectral Power Distribution Comparison

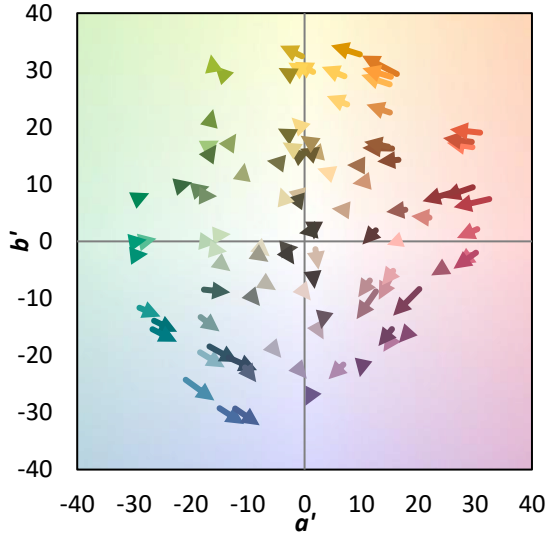


Color Vector Graphics







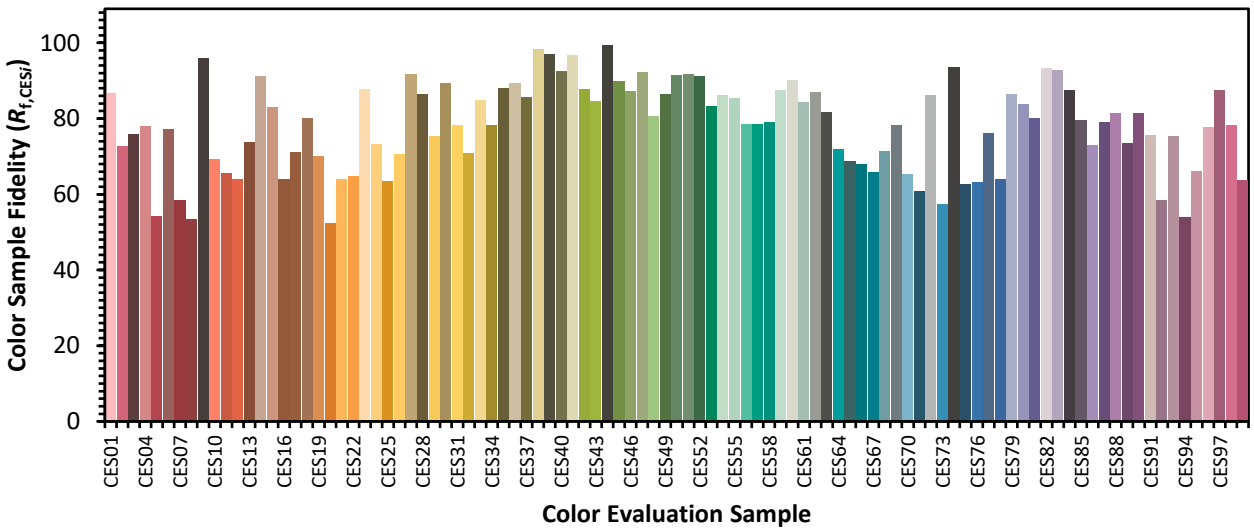


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

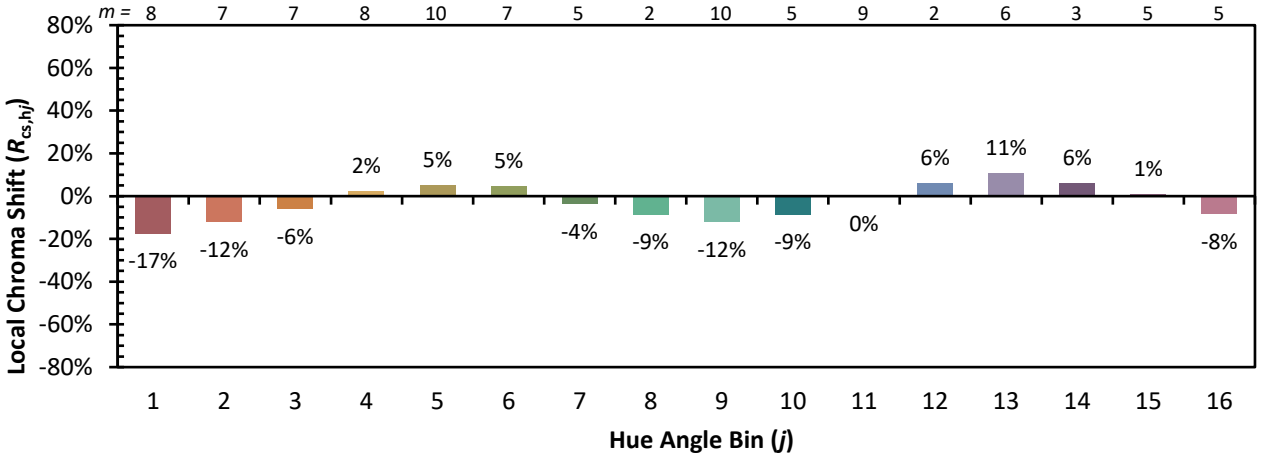
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 85	CES58 = 79	CES83 = 93
CES09 = 29	CES34 = 78	CES59 = 88	CES84 = 87
CES10 = 73	CES35 = 88	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 89	CES61 = 84	CES86 = 73
CES12 = 61	CES37 = 86	CES62 = 87	CES87 = 79
CES13 = 41	CES38 = 98	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 93	CES65 = 69	CES90 = 81
CES16 = 46	CES41 = 97	CES66 = 68	CES91 = 76
CES17 = 49	CES42 = 88	CES67 = 66	CES92 = 58
CES18 = 55	CES43 = 85	CES68 = 71	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 90	CES70 = 65	CES95 = 66
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 92	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 81	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 91	CES75 = 63	

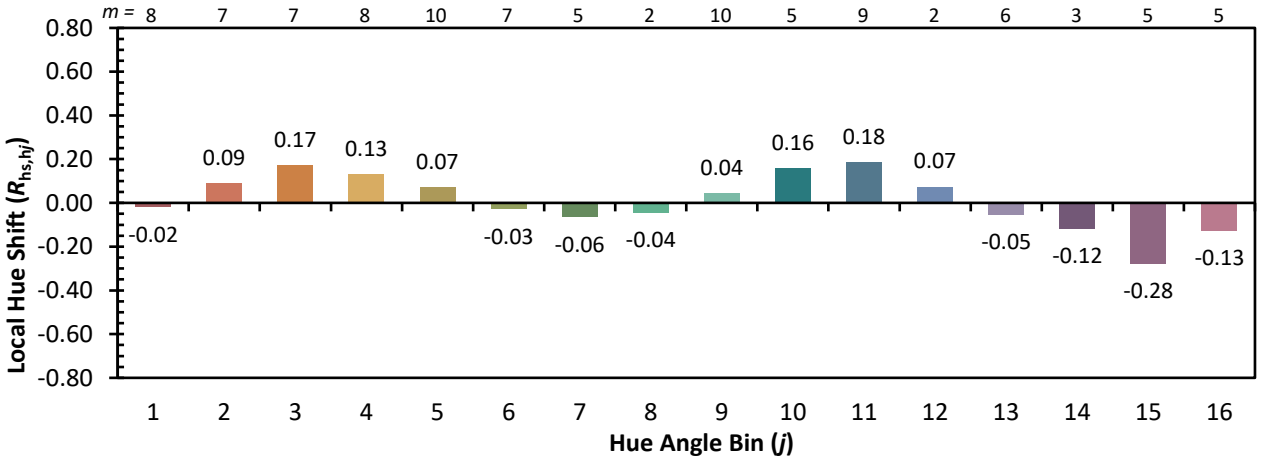


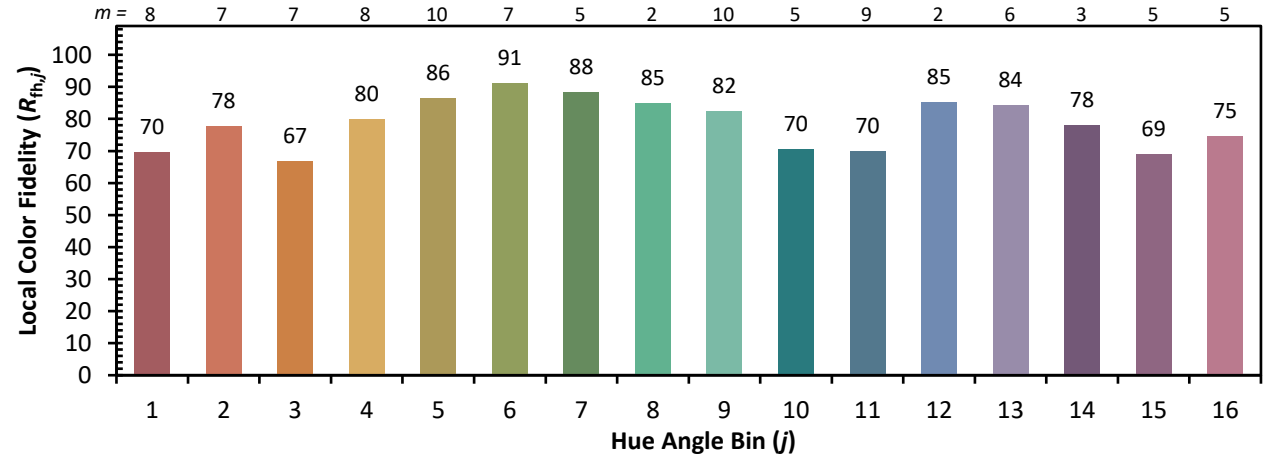
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



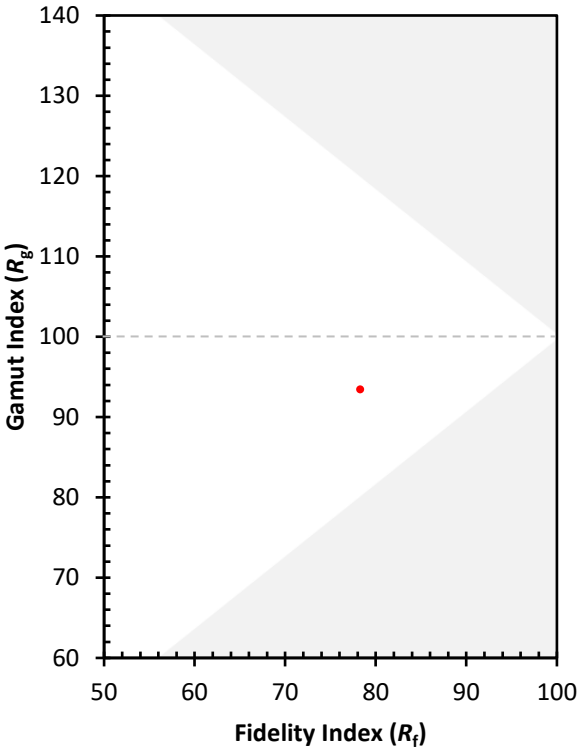


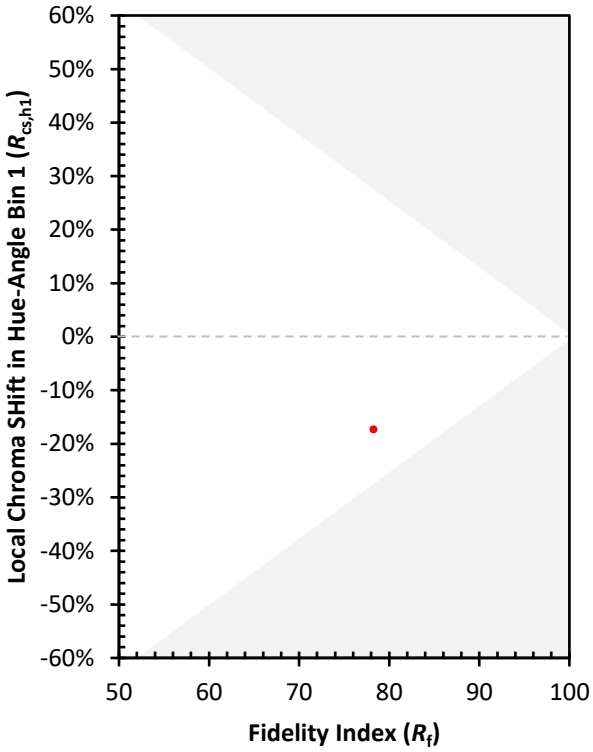


REPORT NUMBER: SP1-2501-332-5

TM-30-18

Measure Comparisons





(END OF REPORT)