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: P1045909

Luminaire Tested: **FFX-CLB-40-750-U-VM9-T5-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:	P1045909
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-750-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4495.7 lumens
Efficiency:	N/A
Efficacy:	114.1 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):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

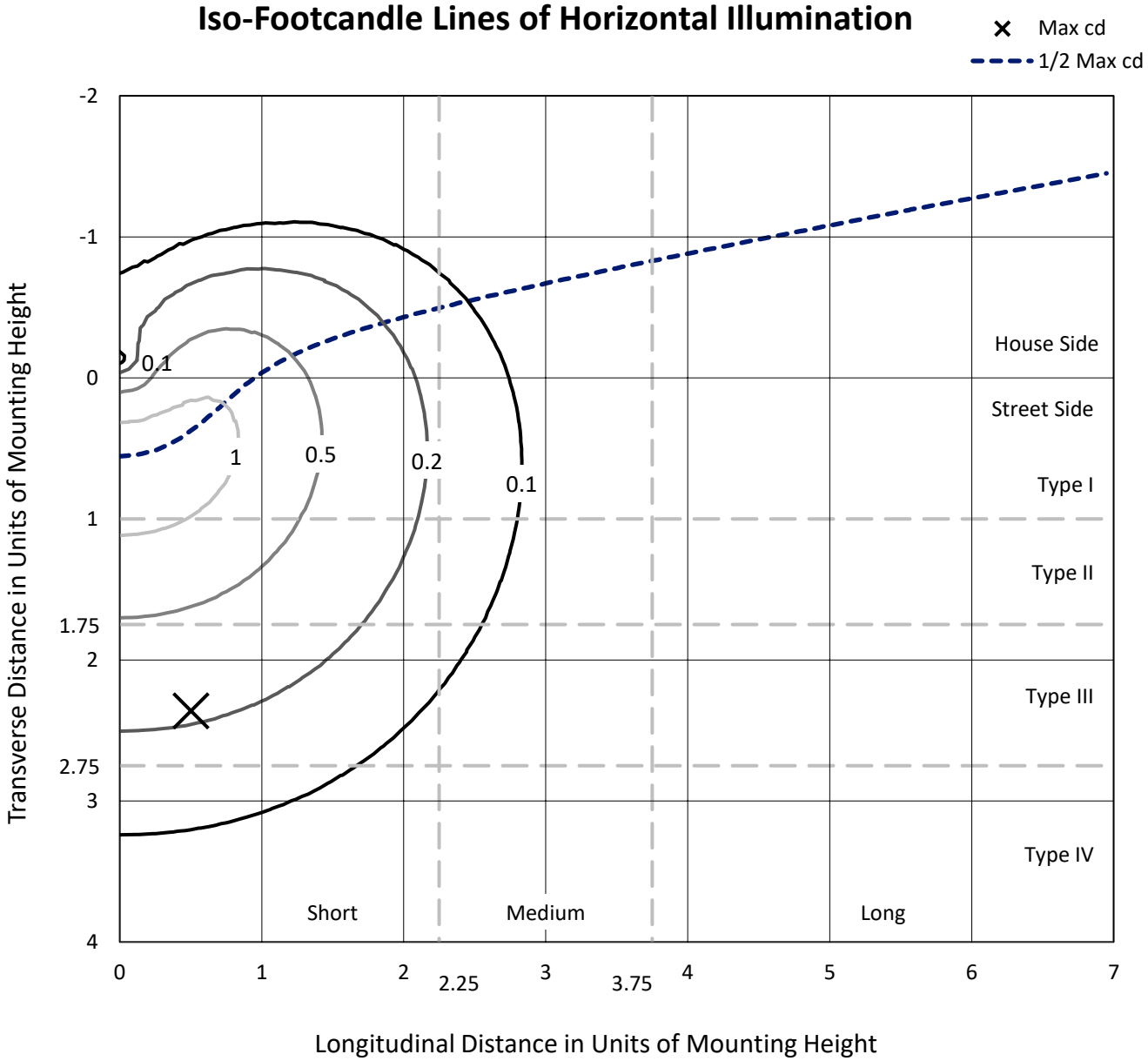


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045909
CATALOG NUMBER: FFX-CLB-40-750-U-VM9-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



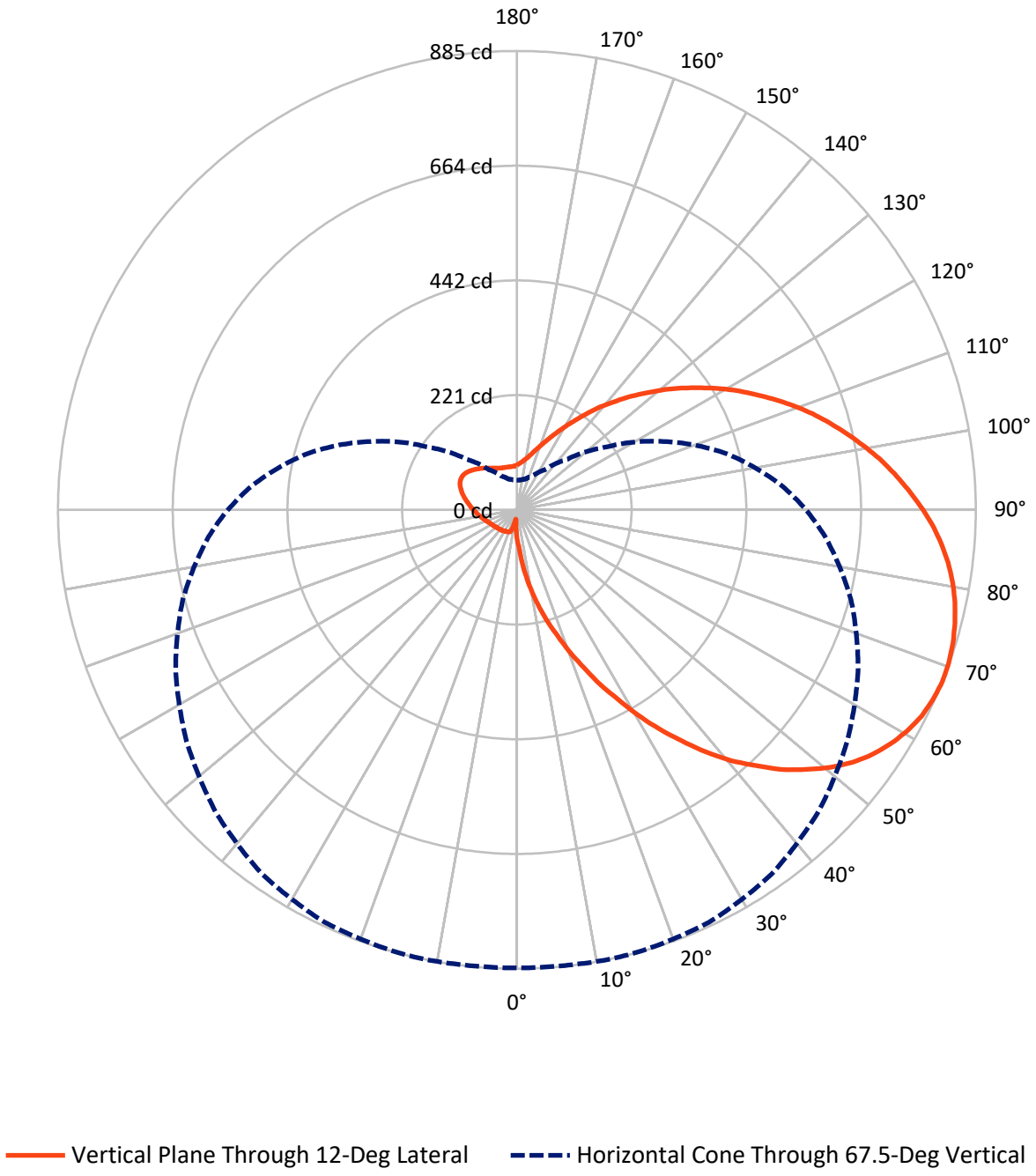
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045909
CATALOG NUMBER: FFX-CLB-40-750-U-VM9-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

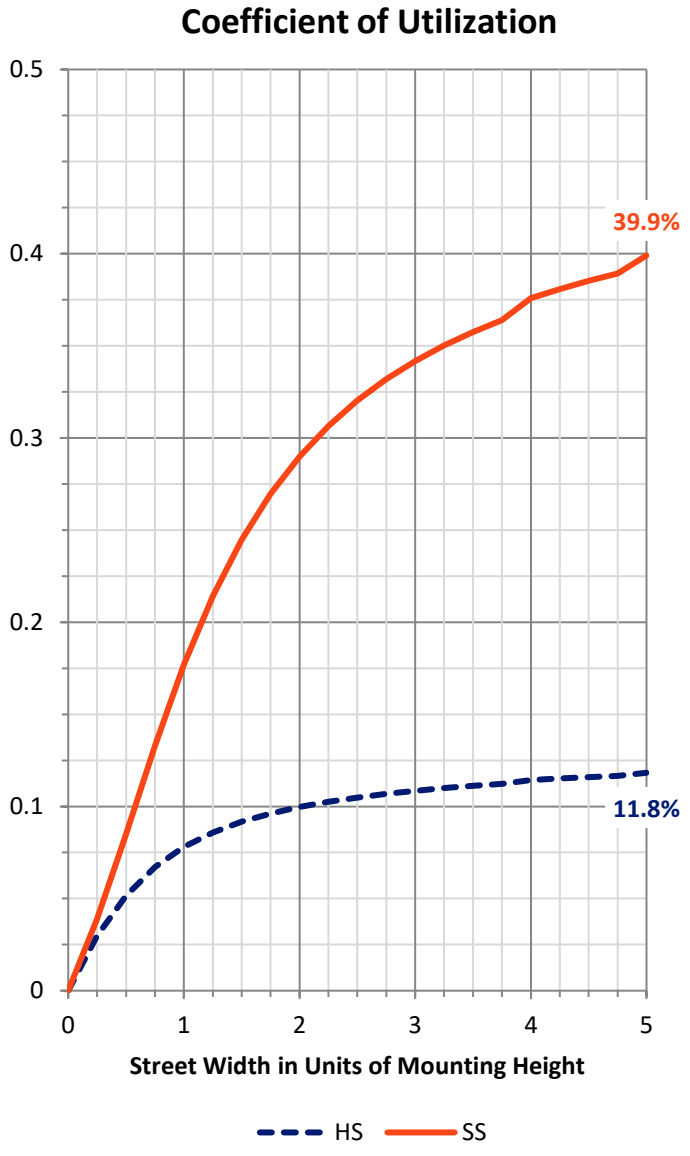
REPORT NUMBER: P1045909
CATALOG NUMBER: FFX-CLB-40-750-U-VM9-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.5	560.0	1138.5
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	2045.5	1311.6	3357.2
	% Fixture	45.5	29.2	74.7
Total	Lumens	2624.1	1871.6	4495.7
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.2
10°-20°	40.0	0.9
20°-30°	104.3	2.3
30°-40°	202.5	4.5
40°-50°	318.0	7.1
50°-60°	422.0	9.4
60°-70°	491.8	10.9
70°-80°	522.5	11.6
80°-90°	515.9	11.5
90°-100°	475.7	10.6
100°-110°	415.1	9.2
110°-120°	341.3	7.6
120°-130°	258.4	5.7
130°-140°	176.5	3.9
140°-150°	108.2	2.4
150°-160°	59.3	1.3
160°-170°	28.6	0.6
170°-180°	8.5	0.2
0°-90°	2624.1	58.4
0°-180°	4495.7	100.0



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

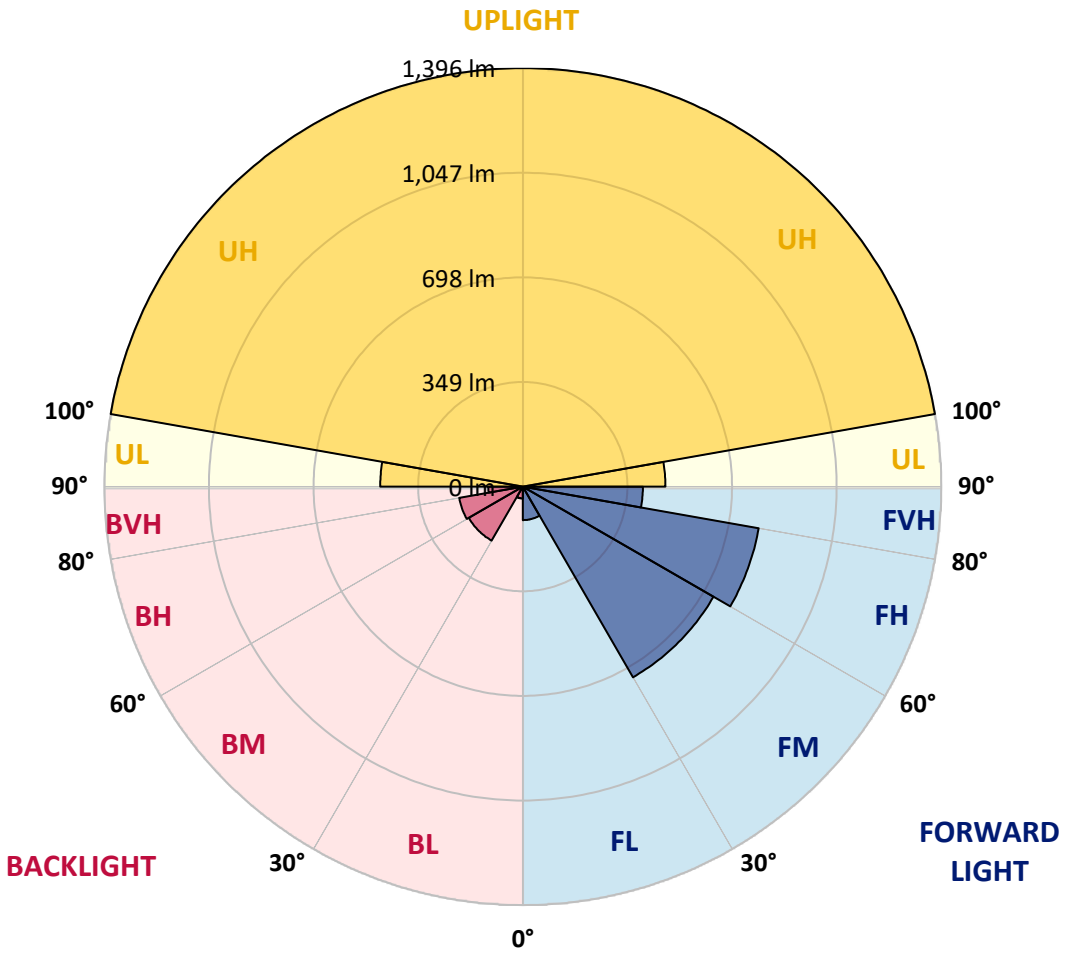
Scaled Data Report

REPORT NUMBER: P1045909
CATALOG NUMBER: FFX-CLB-40-750-U-VM9-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	111.7	2.5			
FM	(30°-60°)	734.5	16.3			
FH	(60°-80°)	798.9	17.8			G1/1800
FVH	(80°-90°)	400.4	8.9			G3/500
BL	(0°-30°)	39.6	0.9	B0/110		
BM	(30°-60°)	208.0	4.6	B0/220		
BH	(60°-80°)	215.4	4.8	B1/500		G1/500
BVH	(80°-90°)	115.5	2.6			G2/225
UL	(90°-100°)	475.7	10.6		U3/500	
UH	(100°-180°)	1395.9	31.0		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: P1045909
CATALOG NUMBER: FFX-CLB-40-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	56.9	56.9	*56.9*	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
2.5°	71.2	72.7	*71.2*	73.2	72.2	72.2	69.7	67.3	63.8	59.8	56.4
5°	100.9	100.4	*98.4*	100.4	98.4	95.9	92.0	85.6	79.1	73.2	65.8
7.5°	131.6	132.1	*130.6*	130.1	125.6	122.2	115.7	109.3	101.4	92.5	83.6
10°	164.7	163.7	*161.2*	161.7	156.8	149.9	142.4	135.0	126.1	115.7	104.4
12.5°	195.4	195.4	*193.4*	193.9	188.4	180.5	174.6	164.7	153.8	141.4	127.6
15°	228.0	226.0	*225.0*	225.0	219.6	212.7	206.2	195.4	182.5	168.6	152.8
17.5°	258.2	257.7	*256.7*	257.2	252.2	246.3	235.9	225.0	209.7	192.9	176.6
20°	296.7	294.8	*293.3*	290.8	287.8	279.9	270.0	255.7	240.4	222.1	200.3
22.5°	331.9	334.3	*330.4*	328.4	324.4	318.0	303.7	289.8	271.5	250.3	226.5
25°	372.4	374.4	*372.9*	370.4	365.0	356.1	342.7	327.4	305.6	281.4	253.2
27.5°	414.9	416.4	*412.5*	413.5	404.1	395.7	382.3	363.5	342.7	314.1	284.4
30°	457.0	460.0	*458.5*	455.0	447.1	439.7	423.8	404.1	380.3	348.7	314.5
32.5°	506.4	503.0	*503.5*	499.5	494.6	482.7	468.9	446.6	418.9	385.3	346.2
35°	552.4	551.0	*547.0*	549.0	540.6	529.7	512.4	488.6	458.5	421.4	378.3
37.5°	593.5	595.0	*592.5*	591.0	585.6	573.2	552.9	528.7	494.1	455.0	408.0
40°	635.5	636.5	*636.0*	636.0	628.6	614.8	594.0	566.8	531.2	489.1	438.2
42.5°	675.6	676.6	*674.1*	674.6	668.7	654.3	632.1	603.4	563.8	519.8	464.4
45°	714.2	714.2	*714.2*	713.7	705.3	691.9	669.2	636.5	596.9	547.0	488.6
47.5°	749.8	748.8	*748.3*	748.3	742.8	727.0	702.8	667.2	624.1	571.7	512.4
50°	781.4	781.9	*781.4*	780.4	772.0	759.2	732.0	694.9	649.4	595.5	532.2
52.5°	808.6	809.1	*809.6*	807.1	801.7	786.4	756.2	716.6	670.6	614.3	548.5
55°	830.4	831.4	*832.4*	831.4	825.9	807.6	777.5	737.4	687.9	630.1	562.8
57.5°	850.7	850.2	*850.7*	849.7	843.7	825.9	794.8	751.7	701.8	642.9	573.7
60°	864.5	865.0	*865.0*	865.0	858.1	839.8	806.6	762.6	711.7	652.8	583.1
62.5°	873.9	874.4	*875.9*	874.9	868.5	849.2	815.1	770.5	719.1	659.3	589.5
65°	880.3	880.8	*881.8*	880.8	874.9	855.1	820.5	775.5	724.1	664.2	594.0
67.5°	*883.3*	*883.3*	*884.8*	*884.3*	*877.4*	*857.1*	*822.5*	*777.5*	*726.0*	*666.7*	*596.9*
70°	881.8	882.3	*883.3*	882.8	875.9	855.6	821.0	776.5	725.5	666.7	597.4
72.5°	878.4	878.4	*879.3*	878.4	871.9	851.7	817.5	773.5	723.1	665.7	596.9
75°	871.4	871.9	*872.4*	871.9	865.0	845.2	811.6	768.1	719.1	662.2	595.0
77.5°	863.0	863.5	*863.5*	863.5	856.1	836.3	803.7	761.1	713.7	658.3	591.5
80°	850.7	851.2	*852.1*	851.2	843.7	825.9	793.3	752.7	706.7	651.8	587.1
82.5°	836.8	836.3	*837.8*	837.3	829.9	812.1	779.9	741.4	696.4	644.4	580.6
85°	819.5	819.5	*820.5*	819.5	813.1	794.3	764.1	727.5	684.5	633.5	572.7
87.5°	800.2	800.2	*801.2*	799.2	791.8	775.5	746.8	711.2	671.6	622.7	563.8
90°	777.5	778.5	*778.5*	777.0	769.6	753.7	727.5	693.4	654.8	609.3	553.4
92.5°	755.7	755.7	*754.7*	754.7	746.8	731.0	706.7	675.6	639.5	596.0	542.0
95°	732.5	732.5	*731.0*	730.0	722.1	708.7	685.5	656.8	622.2	582.1	530.7
97.5°	707.7	707.2	*706.2*	705.3	697.3	684.5	663.7	636.0	604.4	566.3	518.3
100°	682.5	683.0	*679.5*	679.0	671.1	660.3	640.5	614.8	585.6	550.0	505.0
102.5°	654.8	655.8	*652.8*	652.3	644.4	632.6	616.7	593.5	567.3	534.6	491.6
105°	630.1	627.6	*626.1*	625.1	618.2	607.3	590.5	572.2	547.5	516.8	476.8
107.5°	601.9	602.4	*599.4*	597.4	590.5	581.6	566.8	550.0	528.2	499.0	462.4
110°	573.7	572.7	*571.2*	570.2	562.3	554.4	541.6	527.7	506.4	481.2	447.1

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

Scaled Data Report

REPORT NUMBER: P1045909
CATALOG NUMBER: FFX-CLB-40-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	544.5	545.0	*542.5*	541.1	535.6	527.2	517.8	504.5	486.2	462.4	430.3
115°	517.3	516.3	*514.4*	513.4	507.4	501.0	491.6	481.7	465.4	442.6	413.5
117.5°	489.6	487.6	*487.2*	485.7	481.2	474.8	467.4	459.0	443.1	423.4	395.7
120°	460.9	460.9	*460.0*	459.0	453.0	447.6	443.1	434.2	420.9	402.1	378.3
122.5°	434.2	433.7	*431.8*	430.3	427.3	422.4	416.9	410.0	398.1	381.3	358.6
125°	405.1	406.0	*404.6*	404.1	399.1	396.6	391.7	387.2	374.9	359.6	339.3
127.5°	380.8	379.3	*379.3*	376.9	374.4	371.9	368.0	362.0	353.6	337.8	319.0
130°	355.1	354.1	*352.6*	352.6	349.7	346.2	343.7	338.8	329.4	316.5	298.7
132.5°	329.4	328.4	*327.4*	325.9	323.9	323.4	321.0	315.5	306.6	295.3	279.9
135°	305.2	304.7	*304.2*	304.2	301.2	299.7	296.7	292.3	286.4	276.0	261.1
137.5°	282.4	280.9	*279.9*	279.9	278.9	276.5	274.0	270.5	264.1	255.7	242.3
140°	258.7	259.6	*259.6*	259.2	257.2	255.7	252.7	249.8	243.3	236.4	225.0
142.5°	238.9	238.4	*237.4*	236.9	235.9	233.9	232.4	229.0	225.0	217.6	207.7
145°	217.6	217.6	*217.1*	217.6	215.6	215.1	213.2	210.2	205.7	199.3	190.9
147.5°	198.8	198.8	*198.3*	198.8	197.3	195.8	194.4	192.4	188.4	183.5	176.1
150°	181.5	182.0	*181.0*	181.0	180.5	179.0	178.0	175.1	172.1	168.2	161.7
152.5°	165.7	166.2	*165.7*	165.2	164.7	163.7	162.2	160.2	157.3	153.8	148.4
155°	152.3	151.8	*151.8*	151.8	151.3	149.9	149.9	146.9	143.9	141.4	136.0
157.5°	139.5	139.5	*139.5*	139.5	138.5	138.0	137.0	134.5	133.0	129.6	125.6
160°	129.1	128.6	*128.6*	128.6	127.6	127.1	125.6	124.6	122.7	119.7	116.7
162.5°	118.7	119.2	*119.2*	119.2	118.2	117.7	116.7	115.7	114.2	111.3	109.3
165°	110.8	110.8	*110.8*	110.3	109.8	109.8	108.3	107.8	106.3	104.4	102.9
167.5°	104.4	104.4	*103.9*	104.4	103.4	102.4	101.9	100.9	99.9	98.9	97.4
170°	98.9	98.9	*98.9*	98.9	98.4	97.9	96.9	96.4	95.5	94.5	93.0
172.5°	94.5	94.5	*94.5*	94.5	94.0	93.5	92.5	92.0	91.5	90.5	89.5
175°	91.0	91.0	*91.0*	91.0	90.5	90.0	89.0	89.0	88.5	88.0	87.0
177.5°	88.5	88.5	*88.0*	88.0	87.5	87.0	87.0	86.5	86.5	86.1	85.6
180°	85.6	85.6	*85.6*	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6

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

Scaled Data Report

REPORT NUMBER: P1045909
CATALOG NUMBER: FFX-CLB-40-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
2.5°	54.4	52.4	49.0	46.0	42.5	40.1	37.6	37.1	37.1	38.1	38.1
5°	62.8	58.4	51.4	45.0	37.6	32.1	27.2	22.8	19.8	18.3	18.3
7.5°	78.6	75.2	64.8	55.9	47.0	38.6	30.7	23.7	18.8	15.3	14.8
10°	98.9	93.5	81.1	69.7	57.9	47.5	38.1	29.7	23.7	20.8	20.8
12.5°	120.7	113.3	98.4	84.6	70.7	57.4	46.5	38.1	32.1	29.2	28.2
15°	143.9	135.5	117.7	99.9	83.1	68.7	56.4	46.0	40.1	37.1	36.6
17.5°	165.7	156.3	136.0	114.7	95.5	78.1	63.3	52.4	45.0	41.5	41.0
20°	189.4	177.1	153.3	128.6	105.8	85.1	68.3	55.4	46.5	42.5	42.0
22.5°	213.7	199.3	171.1	142.4	115.2	91.5	71.7	56.9	47.0	42.5	42.0
25°	239.4	223.5	190.4	157.3	125.6	97.9	75.2	58.4	48.0	42.5	42.0
27.5°	266.6	248.8	210.7	173.1	136.0	104.4	78.6	60.3	48.5	43.0	42.0
30°	295.8	275.5	231.5	188.4	145.9	110.3	81.6	61.3	49.0	43.0	42.5
32.5°	324.9	300.2	254.2	203.3	156.3	115.7	84.6	62.8	49.5	43.5	43.0
35°	353.1	328.9	275.0	218.6	166.2	121.2	87.0	63.8	50.4	44.0	43.0
37.5°	381.8	355.6	294.8	232.9	175.1	125.6	89.0	64.8	50.9	44.5	43.5
40°	409.0	378.3	314.1	246.8	182.5	129.6	90.5	65.3	51.4	45.0	44.0
42.5°	434.7	402.1	332.4	258.7	189.9	132.5	92.0	66.3	51.9	45.5	45.0
45°	456.5	422.9	348.2	270.5	195.4	135.0	93.0	66.8	52.4	46.0	45.5
47.5°	477.8	441.7	363.0	279.9	200.8	137.5	93.5	67.3	52.9	47.0	46.5
50°	496.5	458.5	376.4	288.3	204.8	138.5	94.0	67.8	53.9	48.0	47.5
52.5°	512.4	472.8	386.8	295.3	207.7	139.5	94.0	67.8	54.4	49.0	48.5
55°	525.2	485.2	396.2	300.2	209.7	140.0	94.0	68.3	55.4	50.0	49.5
57.5°	536.1	494.6	403.6	304.7	211.7	140.0	94.0	68.7	56.4	50.9	50.4
60°	544.0	502.5	409.0	307.6	212.2	139.5	94.0	69.2	57.4	52.4	51.9
62.5°	550.5	507.9	413.5	309.6	212.2	138.5	94.0	69.7	58.4	53.9	53.4
65°	554.9	511.9	416.4	310.6	211.7	138.0	94.0	70.7	59.8	55.4	54.9
67.5°	*557.4*	*514.8*	*418.4*	*311.6*	*211.2*	*138.0*	*94.5*	*72.2*	*61.3*	*57.4*	*56.9*
70°	558.4	515.3	418.9	311.1	210.7	137.0	95.0	73.2	63.3	59.3	58.9
72.5°	558.4	515.8	418.9	311.1	209.7	137.5	95.5	74.7	65.3	61.3	60.8
75°	556.9	514.4	418.4	310.1	209.2	137.0	96.9	76.7	67.3	63.8	63.3
77.5°	553.9	512.4	416.9	308.6	208.7	137.5	97.9	78.6	69.7	66.3	66.3
80°	550.5	509.4	414.9	307.1	208.2	138.5	99.4	81.1	72.2	69.2	68.7
82.5°	545.0	505.0	411.5	305.2	207.2	139.0	101.4	83.6	75.2	71.7	71.7
85°	537.6	498.5	407.0	302.7	206.2	140.0	103.4	85.6	78.1	74.7	74.7
87.5°	529.7	491.6	401.6	299.7	205.7	141.0	105.8	88.5	80.6	77.6	77.2
90°	520.3	483.2	396.2	296.2	205.2	142.4	107.8	91.5	84.1	81.1	80.6
92.5°	510.4	474.8	390.2	293.8	204.8	143.9	110.8	95.0	87.5	84.6	84.1
95°	500.5	465.9	384.3	290.3	204.8	145.9	113.8	98.4	91.0	88.0	87.5
97.5°	489.1	456.0	377.4	287.3	204.8	148.4	117.2	101.9	94.5	91.5	91.5
100°	477.3	446.1	370.4	284.4	205.2	150.8	120.7	105.8	98.4	95.5	95.5
102.5°	465.4	435.2	364.0	281.9	206.2	154.3	125.1	110.3	102.9	99.9	99.4
105°	452.5	424.3	356.6	278.4	207.2	157.3	129.1	114.2	106.8	103.9	103.9
107.5°	439.7	413.0	349.2	276.0	208.2	160.2	133.5	118.7	111.3	107.8	107.8
110°	425.3	400.6	341.3	273.0	209.2	163.7	137.0	122.7	114.7	111.8	111.3

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

Scaled Data Report

REPORT NUMBER: P1045909
CATALOG NUMBER: FFX-CLB-40-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	410.5	388.2	332.8	269.0	209.7	166.7	141.0	126.6	118.7	115.2	114.7
115°	394.7	374.4	323.4	265.1	209.7	169.1	143.9	129.6	121.7	118.2	117.7
117.5°	378.8	359.6	313.1	259.6	209.2	170.6	146.4	131.6	123.6	120.2	119.7
120°	362.0	344.7	302.7	254.2	207.2	171.1	147.4	133.0	124.6	121.2	120.7
122.5°	344.7	328.9	290.3	246.8	204.3	170.6	147.4	133.0	124.6	120.7	120.2
125°	325.9	312.1	277.5	237.9	199.8	168.6	146.4	132.1	123.6	119.7	118.7
127.5°	307.6	295.3	264.1	229.0	194.4	165.7	144.4	130.1	121.7	117.7	117.2
130°	289.8	277.5	250.3	219.1	187.9	161.7	141.0	127.1	119.2	114.7	114.2
132.5°	271.0	259.6	236.4	208.7	180.5	156.8	137.5	124.1	115.7	112.3	111.3
135°	252.2	243.3	222.1	197.8	173.1	151.3	133.5	120.7	112.8	108.8	108.8
137.5°	235.4	226.5	207.7	186.9	165.2	144.9	128.6	116.7	109.3	105.8	105.3
140°	218.1	211.2	194.4	176.1	156.8	139.0	124.6	113.3	106.3	102.9	102.4
142.5°	201.8	194.9	181.5	164.7	148.4	132.5	119.7	109.3	102.9	99.9	99.4
145°	185.5	180.5	167.7	154.3	140.0	126.1	114.2	105.3	99.9	96.9	96.9
147.5°	171.1	166.7	155.3	143.9	131.6	120.2	109.8	101.9	96.9	94.5	94.0
150°	157.3	153.3	143.9	134.5	123.1	113.8	104.8	98.4	94.0	92.0	91.5
152.5°	144.4	141.4	133.5	125.6	116.2	107.8	100.9	95.5	91.5	89.5	89.5
155°	133.5	131.1	124.1	117.2	109.8	102.9	96.9	92.5	89.5	88.0	87.5
157.5°	124.1	121.2	115.7	110.3	104.4	98.4	94.0	90.0	88.0	86.5	86.5
160°	115.2	112.8	108.3	104.4	99.4	95.0	91.0	88.5	86.5	85.6	85.6
162.5°	107.8	105.8	102.4	98.9	95.5	92.0	89.0	87.0	85.6	84.6	84.6
165°	101.4	100.4	97.4	95.0	92.0	89.5	87.5	86.1	85.1	84.6	84.6
167.5°	96.4	95.5	93.5	91.5	89.5	87.5	86.1	85.1	84.6	84.1	84.1
170°	92.5	91.5	90.5	89.0	87.5	86.1	85.1	84.6	84.1	84.1	84.1
172.5°	89.5	88.5	88.0	87.0	86.1	85.1	84.6	84.1	84.1	84.1	84.1
175°	87.0	86.5	86.1	85.6	85.1	84.6	84.1	84.1	84.1	84.1	84.1
177.5°	85.6	85.1	85.1	84.6	84.6	84.1	84.1	84.6	84.6	84.6	85.1
180°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6

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: SP1-2501-332-10

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

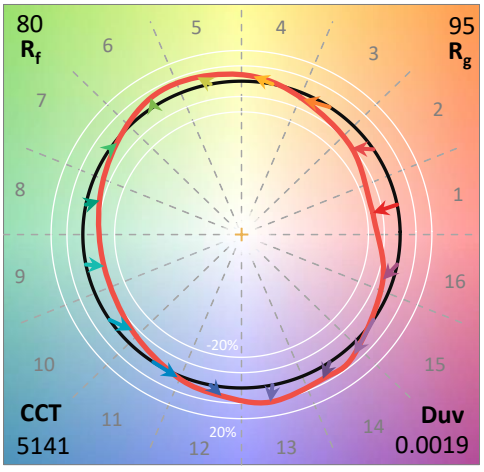
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-10
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-20-750-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	5141	CRI (Ra):	78.0		
CIE u':	0.2087	R1:	75.1	R9:	-20.0
CIE v':	0.4845	R2:	83.7	R10:	62.4
Duv:	0.0019	R3:	90.5	R11:	77.7
CIE x:	0.3415	R4:	78.3	R12:	58.6
CIE y:	0.3524	R5:	77.1	R13:	76.9
CIE z:	0.3060	R6:	78.0	R14:	95.0
Peak Wavelength (nm):	448	R7:	82.9	R15:	67.8
Dominant Wavelength (nm):	568	R8:	58.7		
Purity:	8.219556				
Rf:	79.6				
Rg:	95.3				



Test Conditions

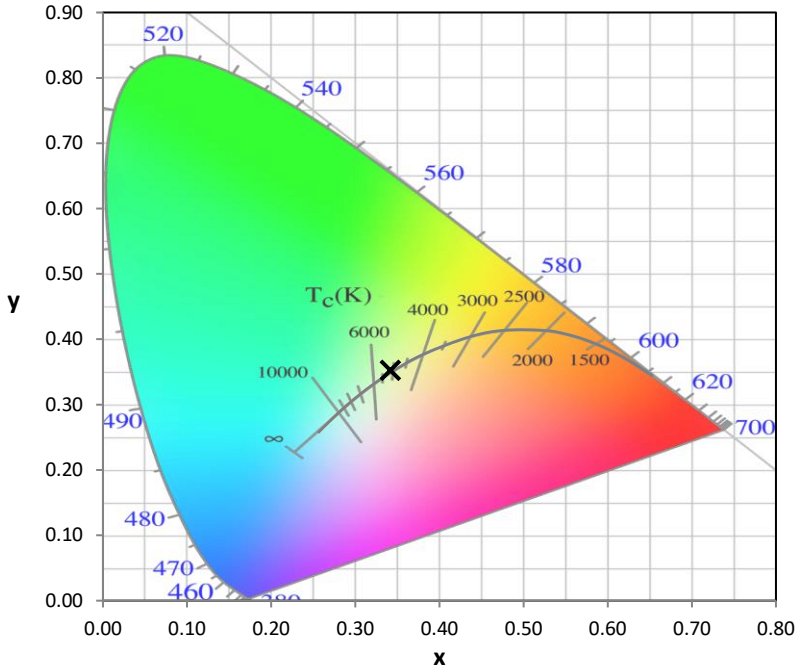
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

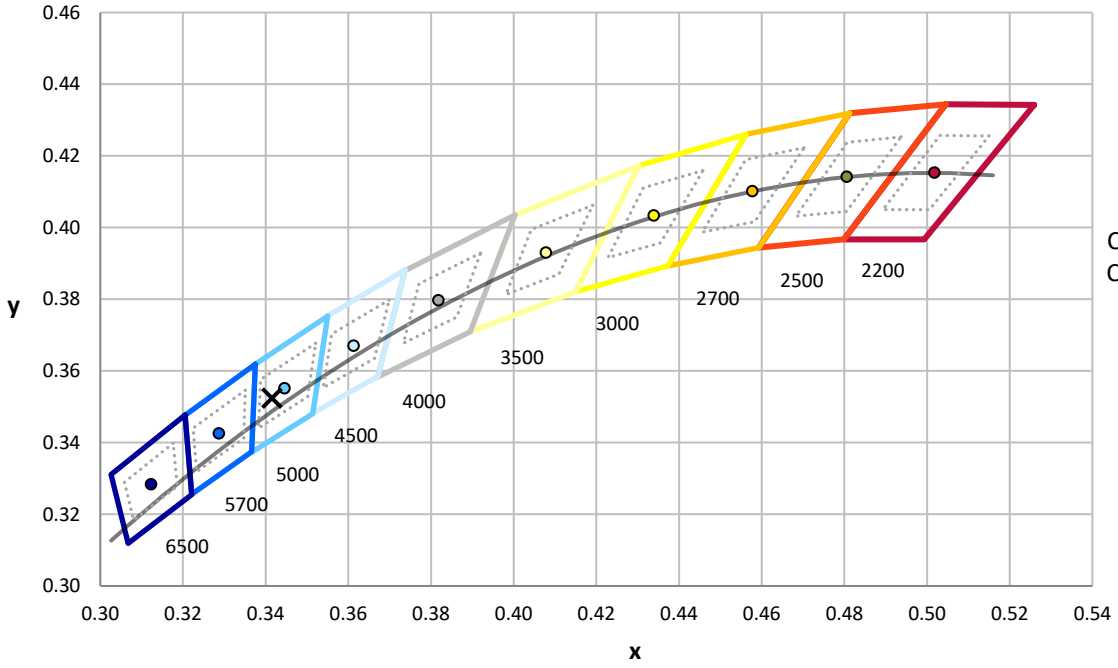
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-10

CIE 1931 Chromaticity Diagram



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

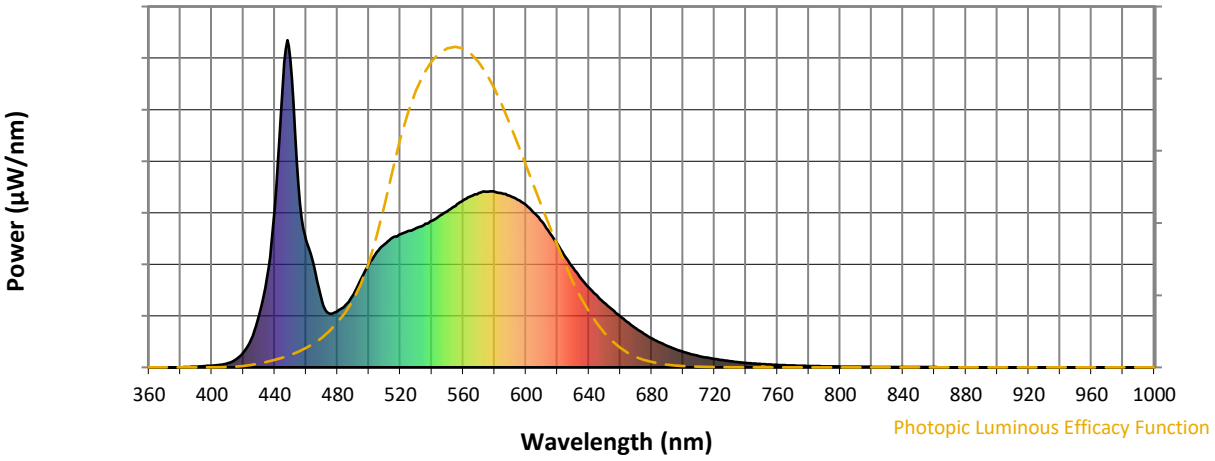


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

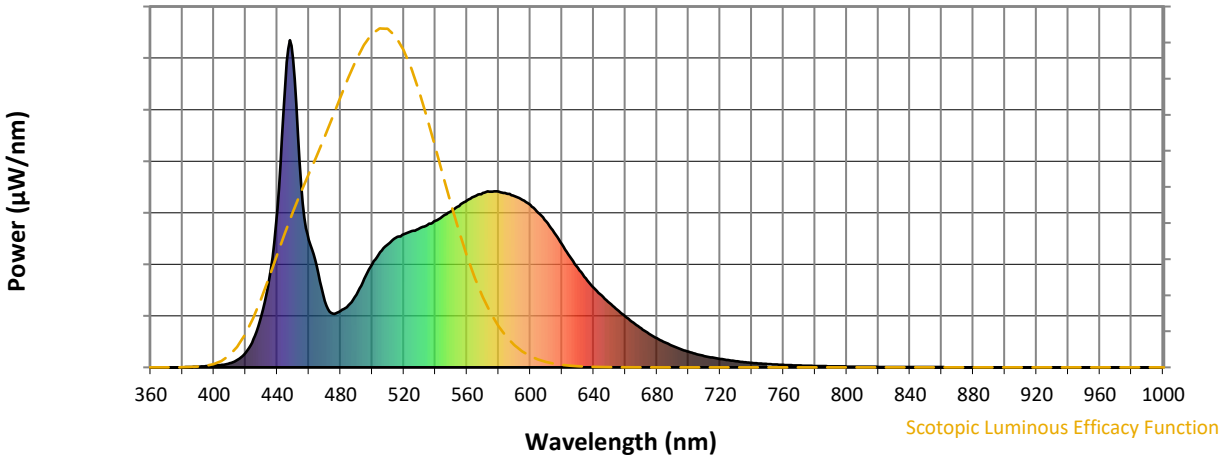


Photopic Lumens: NR

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Scotopic Flux vs. Wavelength

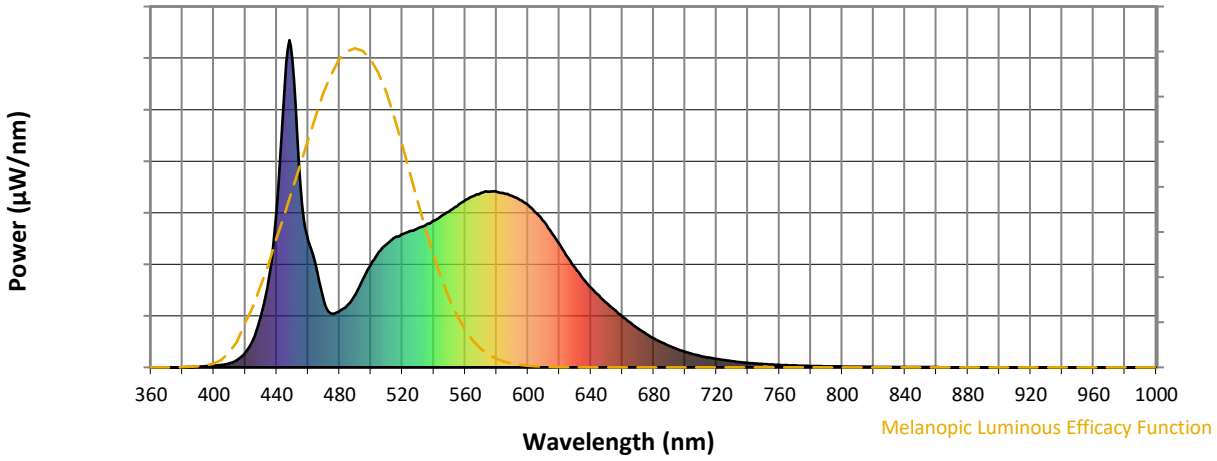


Scotopic Lumens: NR **S/P: 1.92**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.05**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

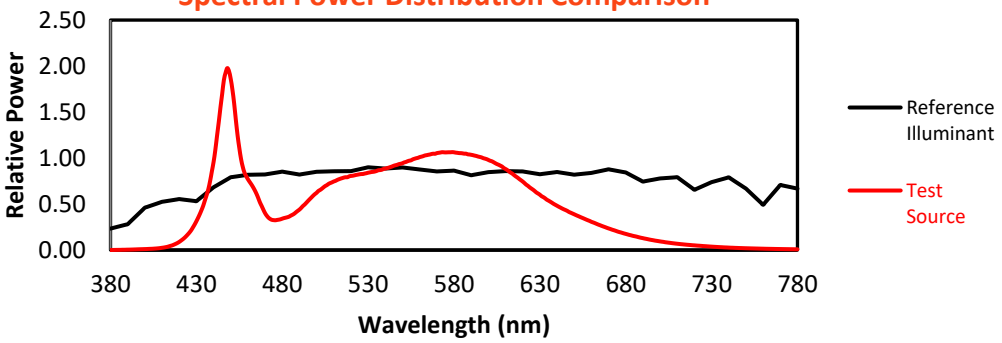
REPORT NUMBER: SP1-2501-332-10

TM-30-18

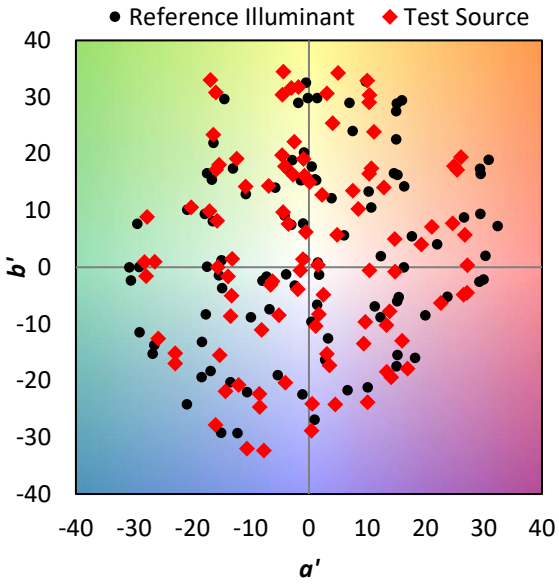
Summary

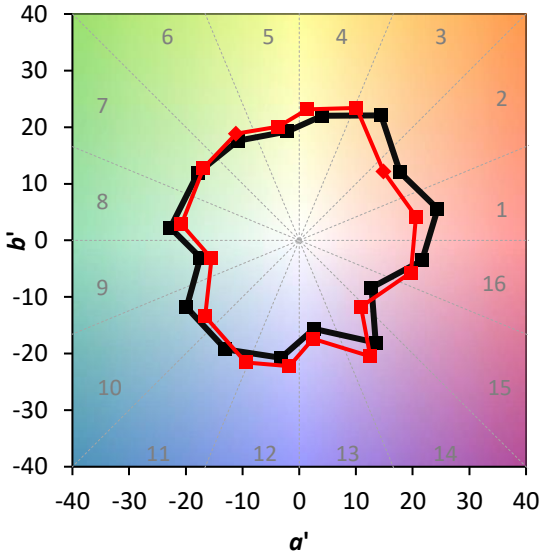
R_f = 79.6
R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

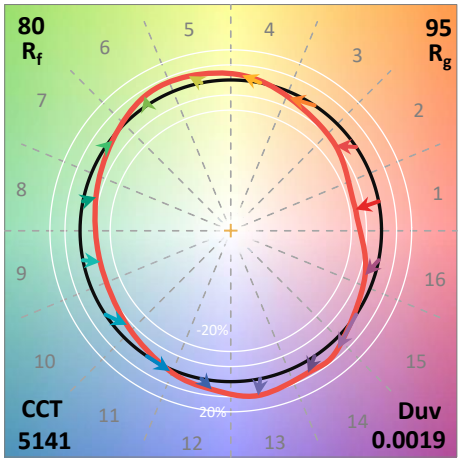
Spectral Power Distribution Comparison

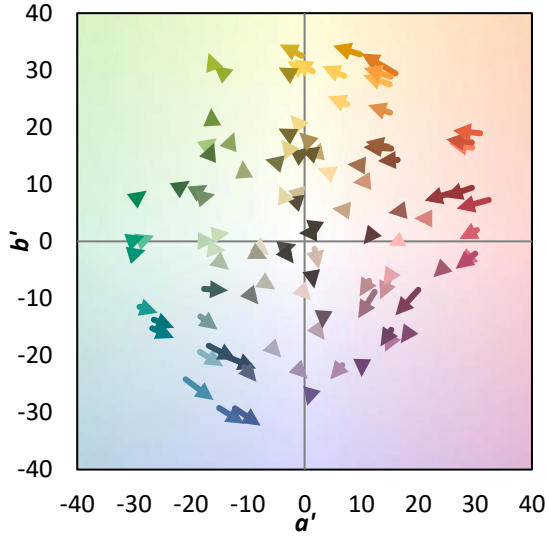


Color Vector Graphics







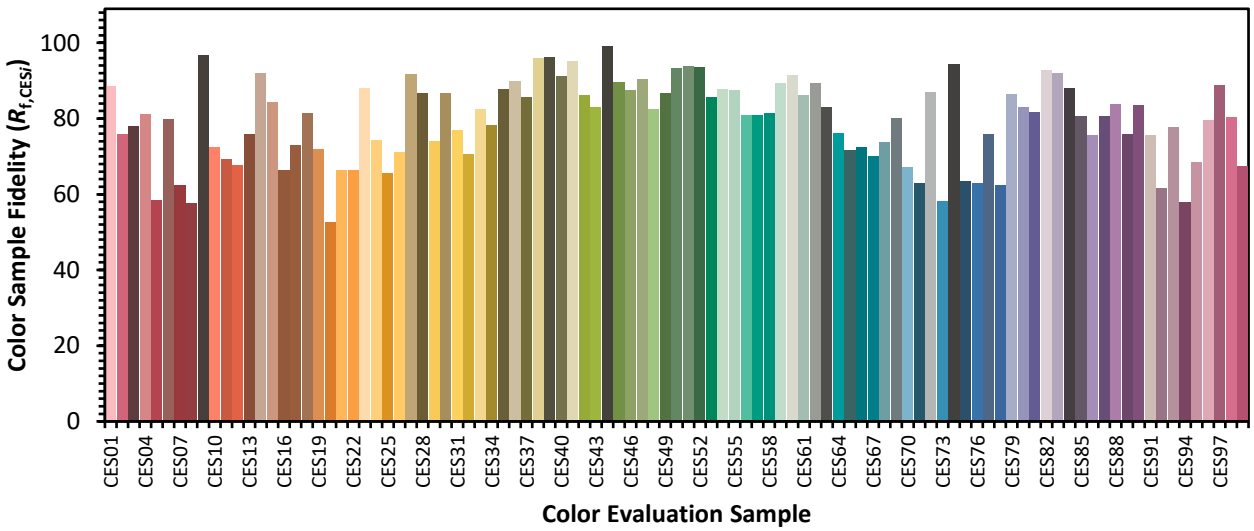


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

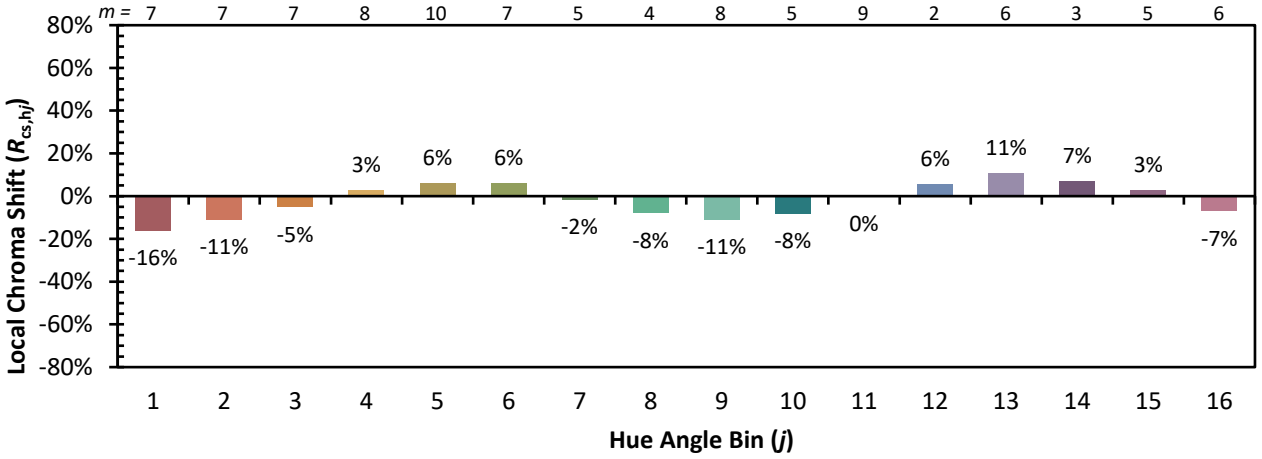
CES01 = 85	CES26 = 71	CES51 = 94	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57 = 81	CES82 = 93
CES08 = 38	CES33 = 83	CES58 = 82	CES83 = 92
CES09 = 29	CES34 = 78	CES59 = 89	CES84 = 88
CES10 = 73	CES35 = 88	CES60 = 91	CES85 = 81
CES11 = 56	CES36 = 90	CES61 = 86	CES86 = 76
CES12 = 61	CES37 = 86	CES62 = 89	CES87 = 81
CES13 = 42	CES38 = 96	CES63 = 83	CES88 = 84
CES14 = 74	CES39 = 96	CES64 = 76	CES89 = 76
CES15 = 70	CES40 = 91	CES65 = 72	CES90 = 83
CES16 = 46	CES41 = 95	CES66 = 72	CES91 = 76
CES17 = 49	CES42 = 86	CES67 = 70	CES92 = 62
CES18 = 55	CES43 = 83	CES68 = 74	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 58
CES20 = 64	CES45 = 90	CES70 = 67	CES95 = 68
CES21 = 85	CES46 = 88	CES71 = 63	CES96 = 79
CES22 = 77	CES47 = 90	CES72 = 87	CES97 = 89
CES23 = 91	CES48 = 83	CES73 = 58	CES98 = 80
CES24 = 90	CES49 = 87	CES74 = 94	CES99 = 67
CES25 = 71	CES50 = 93	CES75 = 64	

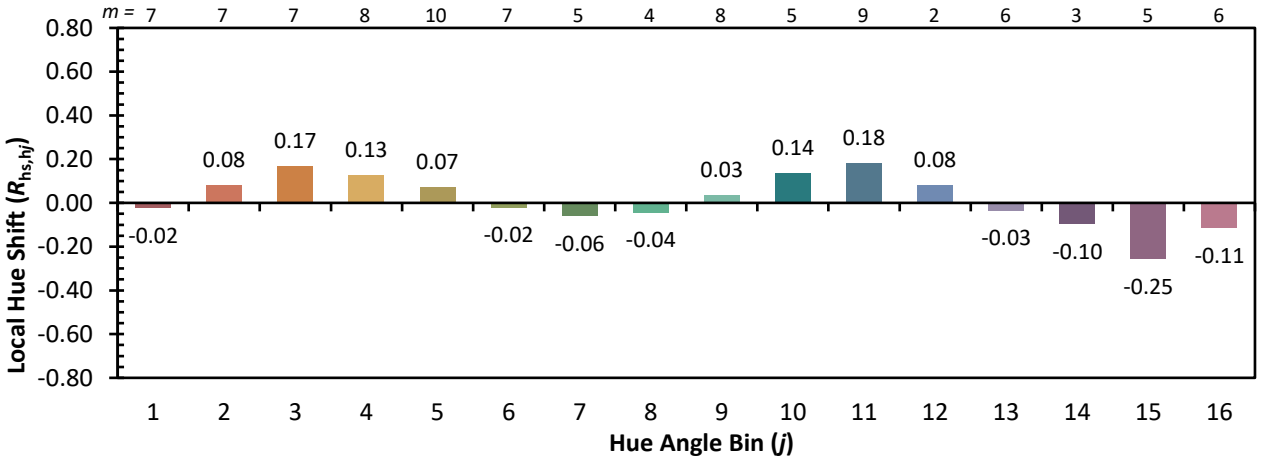


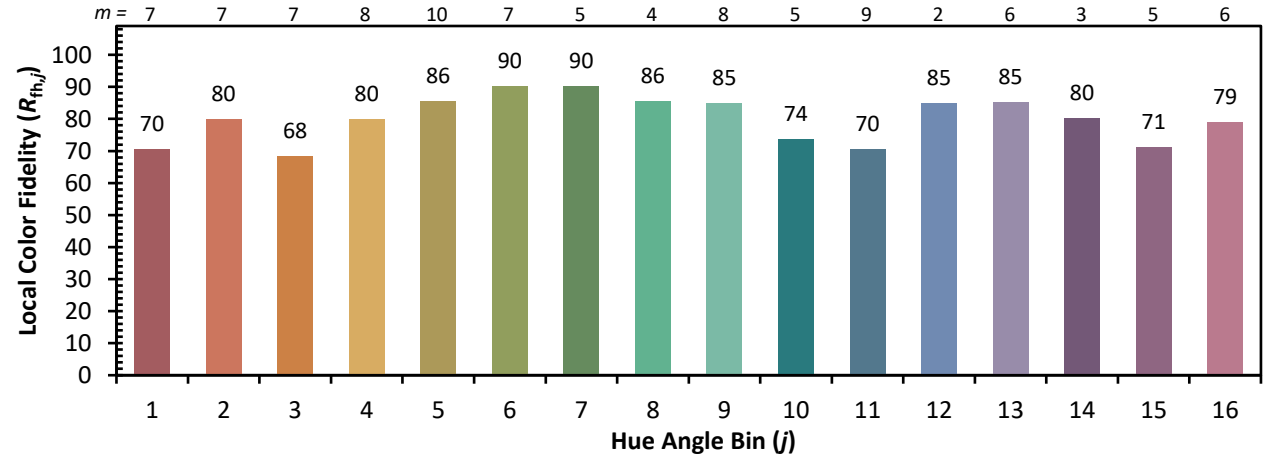
REPORT NUMBER: SP1-2501-332-10

TM-30-18

Color Rendition by Hue-Angle Bin



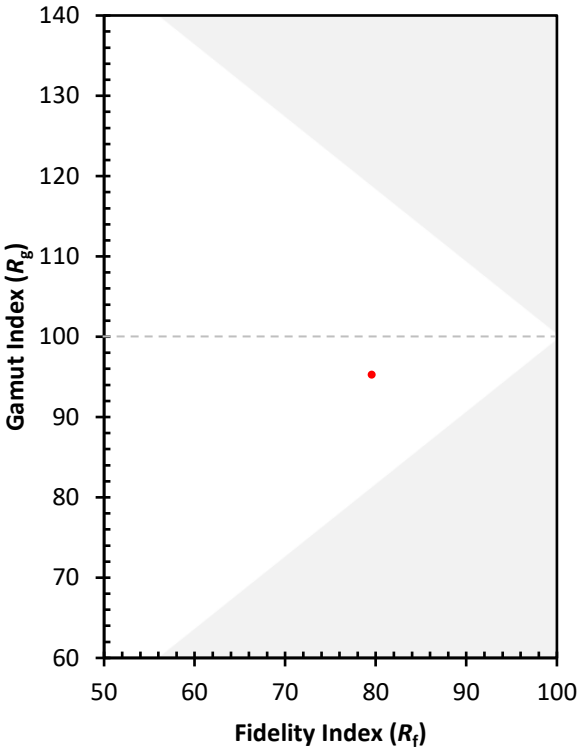


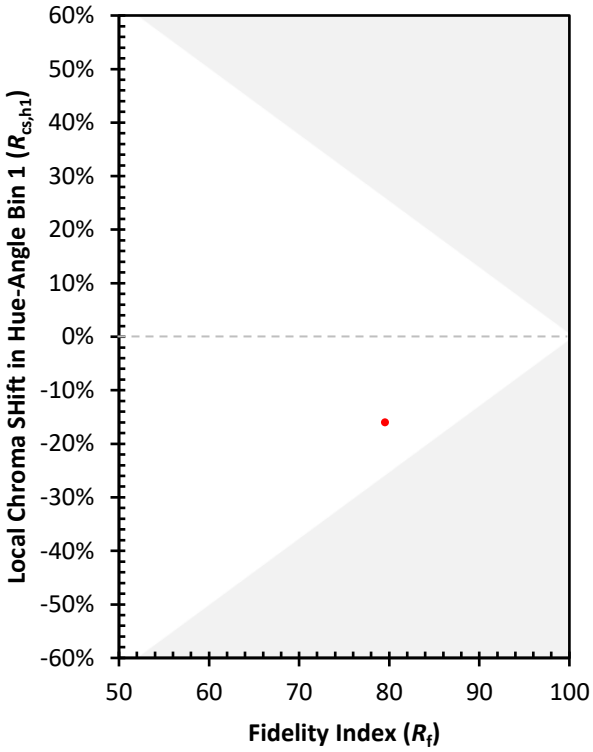


REPORT NUMBER: SP1-2501-332-10

TM-30-18

Measure Comparisons





(END OF REPORT)