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: P1223967

Luminaire Tested: **FFX-CLB-20-750-U-VM9-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223967
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-750-U-VM9-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3010.9 lumens
Efficiency:	N/A
Efficacy:	152.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

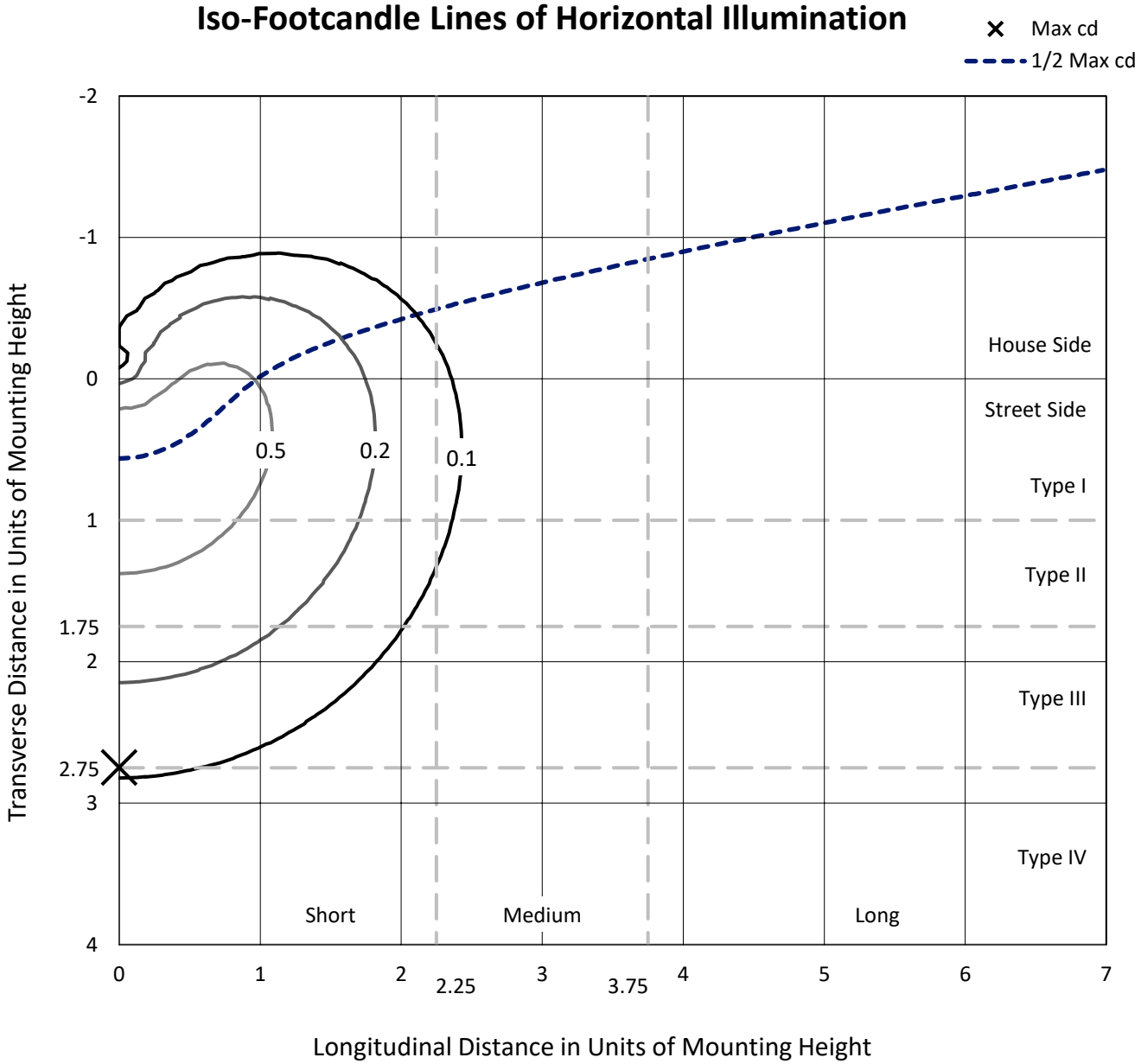


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Iso-Footcandle Lines of Horizontal Illumination



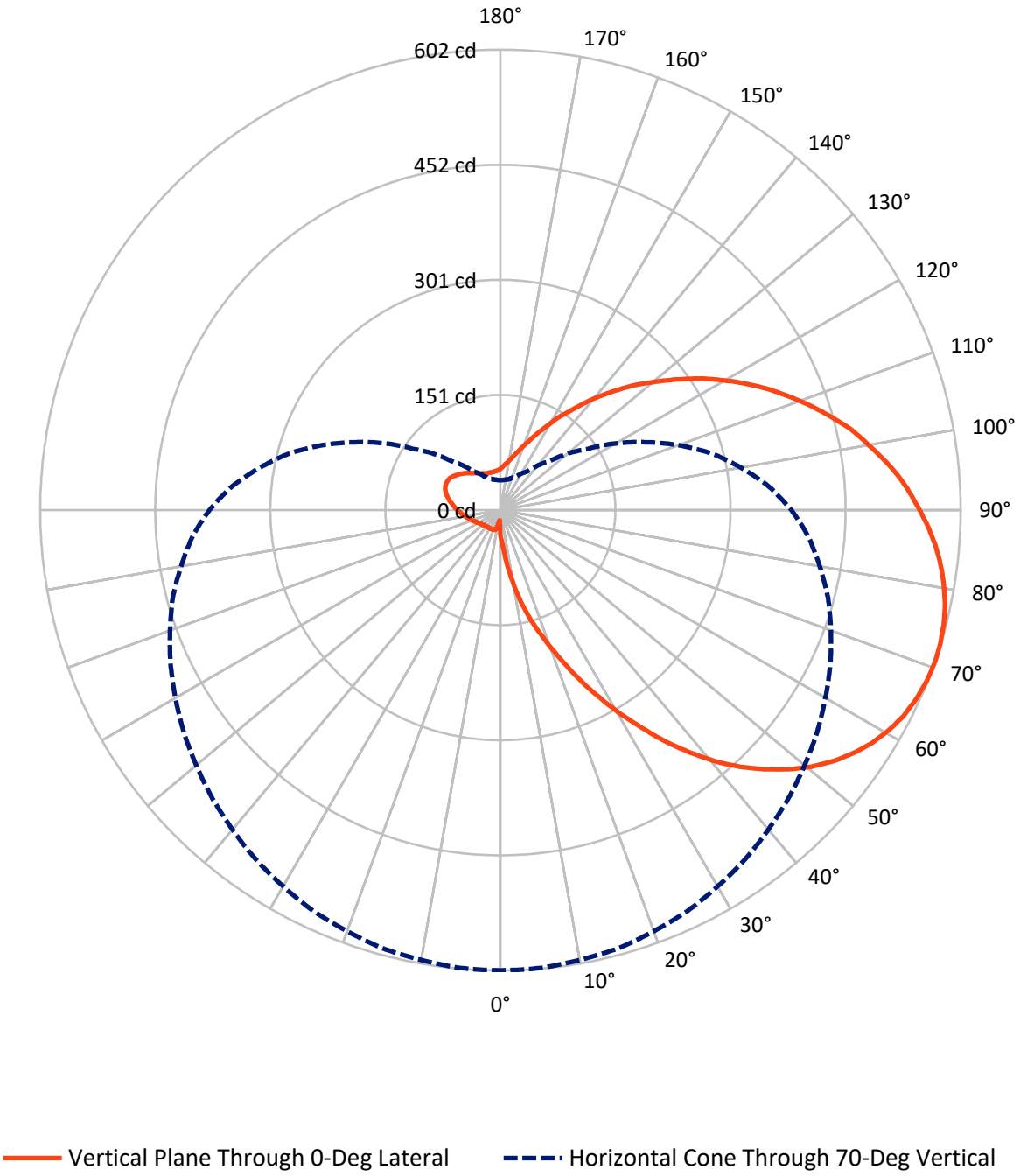
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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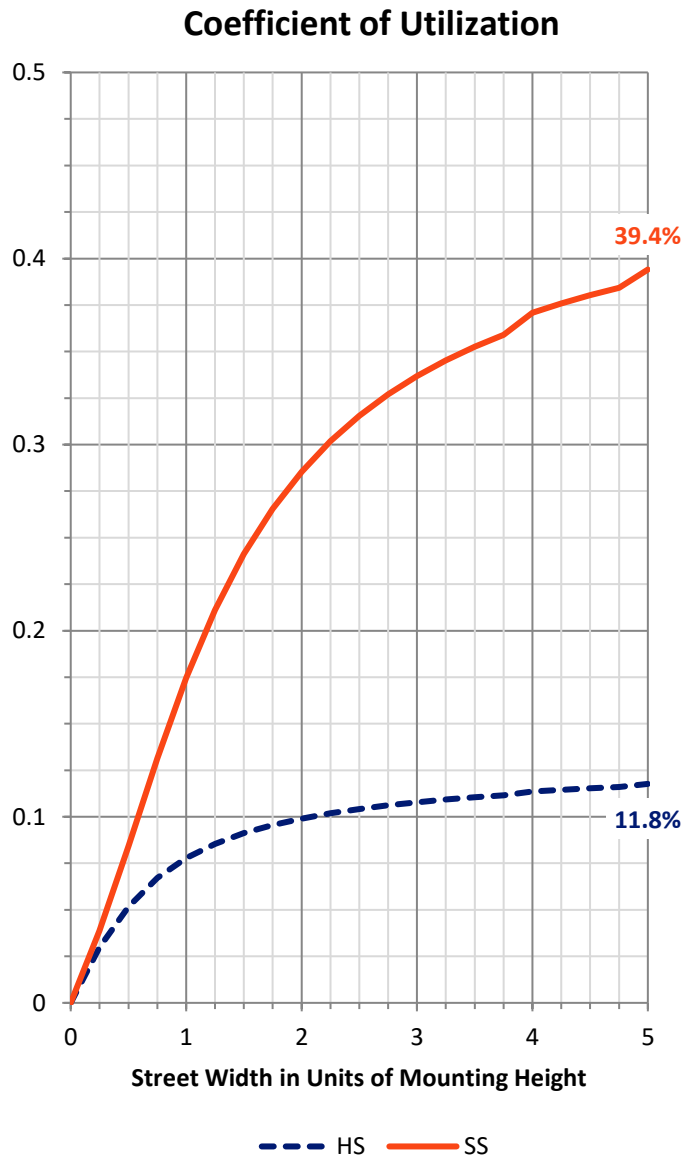
REPORT NUMBER: P1223967
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.1	372.5	758.6
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	1356.2	896.2	2252.4
	% Fixture	45.0	29.8	74.8
Total	Lumens	1742.3	1268.7	3010.9
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.2
10°-20°	26.3	0.9
20°-30°	69.3	2.3
30°-40°	134.5	4.5
40°-50°	209.6	7.0
50°-60°	276.5	9.2
60°-70°	324.7	10.8
70°-80°	349.4	11.6
80°-90°	347.4	11.5
90°-100°	323.0	10.7
100°-110°	283.6	9.4
110°-120°	233.2	7.7
120°-130°	175.6	5.8
130°-140°	119.0	4.0
140°-150°	72.1	2.4
150°-160°	38.8	1.3
160°-170°	18.3	0.6
170°-180°	5.3	0.2
0°-90°	1742.3	57.9
0°-180°	3010.9	100.0



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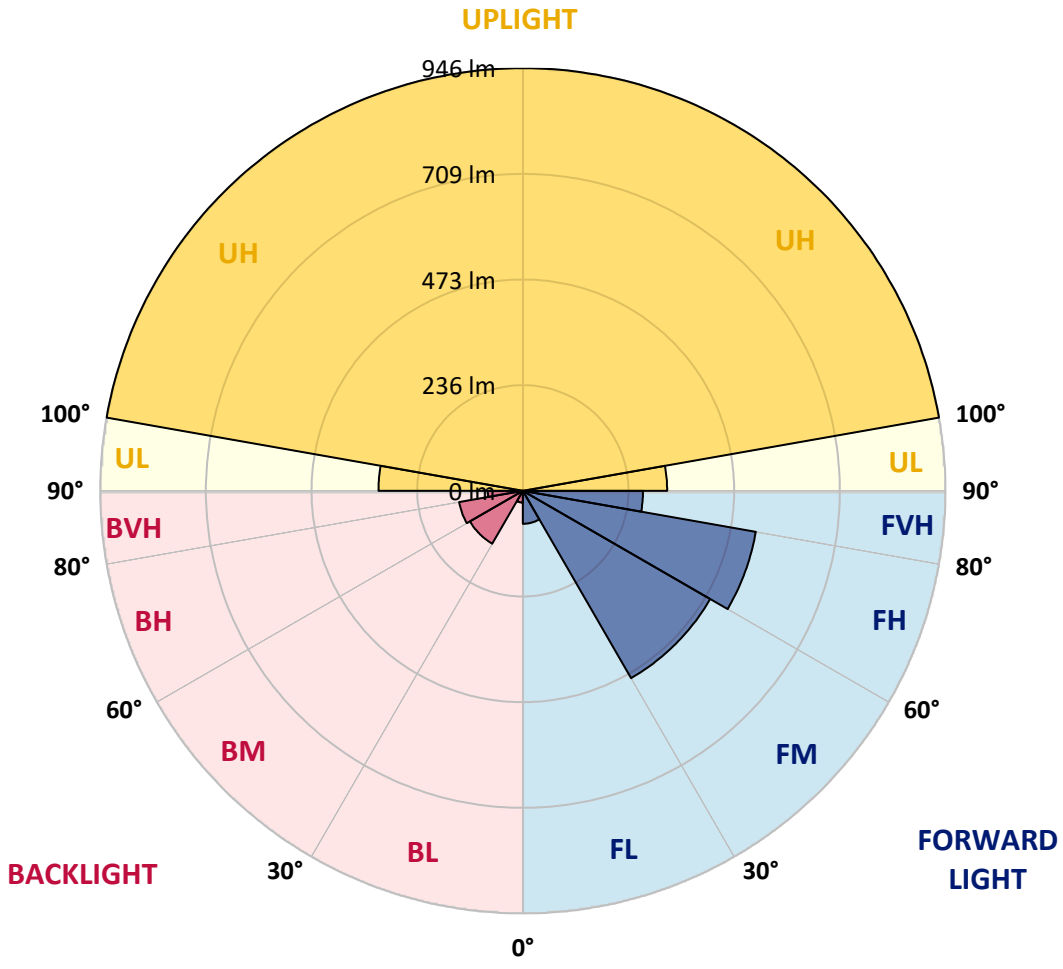
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	73.8	2.4			
FM	(30°-60°)	484.1	16.1			
FH	(60°-80°)	529.4	17.6			G0/660
FVH	(80°-90°)	268.9	8.9			G3/500
BL	(0°-30°)	26.3	0.9	B0/110		
BM	(30°-60°)	136.6	4.5	B0/220		
BH	(60°-80°)	144.7	4.8	B1/500		G1/500
BVH	(80°-90°)	78.4	2.6			G1/100
UL	(90°-100°)	323.0	10.7		U3/500	
UH	(100°-180°)	945.7	31.4		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
2.5°	41.9	42.2	41.9	41.9	42.4	41.9	41.5	40.0	38.2	36.0	34.9
5°	58.7	58.7	59.8	59.8	58.7	56.3	53.4	49.5	45.9	42.2	39.5
7.5°	80.1	80.6	79.7	77.5	76.2	71.3	68.4	63.4	58.9	53.9	51.4
10°	102.4	102.7	101.6	99.6	95.4	90.5	86.3	80.4	74.6	68.0	64.5
12.5°	126.3	125.8	123.9	119.4	117.0	111.5	106.0	99.8	92.1	83.9	79.7
15°	149.0	148.1	147.3	142.6	139.3	133.8	127.4	119.0	109.9	100.9	94.7
17.5°	170.9	168.9	167.6	165.4	160.3	155.4	147.3	137.3	127.6	115.7	109.3
20°	194.3	194.7	192.5	189.4	183.9	176.8	168.9	158.3	146.2	132.0	124.3
22.5°	220.6	220.6	219.2	215.3	209.5	200.5	191.2	180.2	165.1	150.4	140.9
25°	249.7	248.2	246.4	241.3	236.5	226.7	215.7	203.8	188.1	170.2	159.6
27.5°	278.6	278.0	276.2	270.7	264.5	254.3	243.3	227.8	210.8	189.9	178.8
30°	309.3	308.7	306.9	301.6	292.5	282.6	269.4	252.8	234.2	210.6	198.5
32.5°	338.9	338.9	336.7	331.2	321.7	309.8	295.6	277.1	256.5	232.3	217.7
35°	371.8	371.6	367.6	361.0	349.5	339.1	323.2	303.8	280.6	252.8	237.3
37.5°	402.0	400.9	397.0	389.9	379.3	365.8	347.9	326.5	302.7	273.1	255.7
40°	431.8	430.5	427.0	419.0	406.2	391.0	372.7	349.7	322.8	292.1	274.0
42.5°	458.8	458.3	453.3	443.8	431.0	413.7	394.1	369.8	342.9	309.8	290.5
45°	483.3	483.3	478.2	467.8	453.3	435.8	414.2	389.2	360.5	325.9	305.6
47.5°	506.5	506.5	501.6	489.7	473.6	454.4	432.3	406.5	376.0	340.4	318.8
50°	527.4	526.6	521.0	507.8	491.5	471.4	448.2	421.0	390.3	353.5	331.6
52.5°	545.5	544.4	538.0	525.7	507.4	485.9	461.7	434.1	402.0	364.7	342.4
55°	560.8	560.1	553.9	539.8	520.6	499.2	473.4	444.7	413.1	374.2	351.7
57.5°	574.0	572.9	565.6	551.3	532.1	508.7	482.6	454.1	421.5	382.8	359.4
60°	584.0	582.9	575.4	561.0	541.6	516.8	490.8	461.9	428.8	389.7	365.8
62.5°	592.1	590.8	583.5	568.3	548.0	523.7	497.0	467.6	434.5	395.2	371.4
65°	597.2	596.1	589.0	573.8	552.8	528.3	501.6	472.0	439.1	399.4	375.5
67.5°	600.5	599.6	592.4	577.6	556.6	531.6	504.5	474.9	442.2	402.5	378.6
70°	602.1	601.2	593.7	578.7	557.9	533.0	505.8	476.2	443.8	404.7	380.6
71°	602.1	601.2	593.9	578.9	558.1	533.2	506.0	476.4	444.0	404.9	380.8
72.5°	601.4	600.7	593.5	578.2	557.5	532.7	505.4	476.2	444.0	405.1	381.3
75°	599.0	597.7	590.6	575.8	555.3	530.5	503.4	474.2	442.7	404.5	380.8
77.5°	594.6	593.5	586.2	571.8	551.3	526.3	499.4	470.9	440.0	402.3	379.1
80°	588.2	587.1	580.0	565.2	544.9	520.8	493.9	465.8	435.4	398.7	376.0
82.5°	580.0	579.1	572.3	557.5	537.4	513.5	486.6	459.2	430.3	393.9	371.6
85°	570.3	569.2	561.7	547.1	527.9	504.0	477.8	451.3	423.0	387.9	366.3
87.5°	558.6	557.9	550.4	536.5	517.3	493.7	468.5	442.7	414.8	381.3	360.3
90°	545.8	545.5	537.6	523.7	504.7	482.4	457.5	432.3	405.4	373.3	353.0
92.5°	533.0	533.0	525.0	510.7	491.9	469.8	446.2	421.9	396.3	365.4	346.0
95°	518.8	517.3	509.8	497.0	478.2	457.0	434.3	410.4	385.7	356.3	338.0
97.5°	502.3	501.8	494.5	480.9	463.6	443.3	421.2	399.2	375.3	347.1	329.6
100°	486.2	485.3	478.4	465.8	448.2	428.8	408.0	386.8	364.3	337.6	320.8
102.5°	470.3	468.1	461.0	448.2	432.7	413.7	394.3	374.9	352.8	327.4	311.7
105°	451.1	450.8	443.5	431.4	415.7	398.9	380.6	361.6	341.5	317.0	302.5
107.5°	432.3	432.3	425.4	413.5	398.7	382.6	366.3	348.4	329.8	306.2	293.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*413.1*	412.9	406.7	396.1	381.9	366.5	351.5	335.1	316.6	295.8	282.8
112.5°	*394.1*	393.7	387.7	376.9	363.8	351.3	336.2	321.2	304.2	285.0	272.7
115°	*374.9*	374.4	368.0	358.5	346.6	333.6	321.0	306.7	291.9	272.7	261.8
117.5°	*355.0*	354.6	349.3	340.0	328.7	318.4	305.8	293.4	278.4	261.0	250.1
120°	*334.7*	334.9	329.6	321.2	310.9	301.1	290.1	278.8	264.9	248.4	238.0
122.5°	*315.5*	313.9	310.4	302.9	293.6	284.6	275.3	263.8	250.8	235.1	226.1
125°	*295.0*	294.5	291.0	283.5	275.5	268.5	259.9	249.5	237.6	221.7	213.5
127.5°	*275.1*	275.8	271.8	266.3	258.5	252.6	243.7	234.7	223.2	208.9	201.1
130°	*256.5*	256.1	253.9	248.2	241.8	235.6	228.9	220.8	210.0	195.6	188.5
132.5°	*239.3*	237.3	235.4	230.5	225.2	220.1	214.4	206.2	195.2	182.6	176.4
135°	*220.6*	220.6	217.5	213.3	209.5	204.7	198.9	191.4	181.9	170.9	163.8
137.5°	*203.3*	202.5	200.5	197.2	193.6	190.1	185.2	177.7	169.3	158.7	152.6
140°	*187.0*	186.3	184.6	181.7	178.8	175.5	171.1	164.7	157.0	146.8	141.5
142.5°	*170.0*	170.4	168.9	166.9	163.6	161.4	157.4	151.7	144.8	136.0	130.9
145°	*154.8*	155.0	154.3	152.3	149.9	147.7	143.5	139.3	132.7	124.7	121.0
147.5°	*142.2*	141.3	140.0	138.9	136.7	134.9	131.6	127.6	121.4	114.6	111.1
150°	*128.1*	128.7	127.4	126.1	124.7	122.3	119.9	116.6	110.8	105.3	101.6
152.5°	*116.1*	116.6	115.5	114.8	113.5	111.5	109.1	106.0	101.6	96.7	93.2
155°	*105.5*	105.5	105.5	104.6	103.1	101.8	99.4	96.5	92.7	88.3	85.9
157.5°	*95.8*	96.0	96.0	94.9	93.8	92.7	90.7	88.3	85.0	81.2	79.5
160°	*88.1*	87.6	87.4	86.5	85.7	84.8	83.0	81.0	78.2	75.1	73.5
162.5°	*80.4*	80.4	79.9	79.3	78.6	77.3	76.2	74.2	72.2	70.0	68.2
165°	*74.4*	74.2	74.2	73.3	72.6	71.5	70.4	69.1	67.3	65.4	64.0
167.5°	*69.3*	68.9	68.7	68.2	67.3	66.7	65.6	64.5	63.1	61.8	60.7
170°	*64.5*	64.7	64.2	63.8	63.4	62.7	61.8	60.9	59.8	58.5	58.1
172.5°	*61.2*	60.9	60.7	60.3	59.8	59.2	58.7	57.8	57.2	56.3	55.9
175°	*58.1*	58.1	57.8	57.4	57.0	56.5	56.1	55.6	55.2	54.5	54.3
177.5°	*55.6*	55.6	55.6	55.2	55.0	54.8	54.3	54.1	53.9	53.4	53.4
180°	*53.2*	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
2.5°	33.8	30.9	28.5	26.3	24.5	23.0	22.1	20.5	19.4	18.8
5°	38.0	33.8	30.2	26.7	24.1	21.2	18.3	15.5	13.7	13.5
7.5°	48.1	43.5	38.2	33.6	28.3	23.8	20.1	17.2	16.1	15.9
10°	60.9	54.1	47.0	40.2	33.3	27.8	23.8	21.2	19.9	19.6
12.5°	75.1	65.8	56.7	47.9	39.7	33.6	28.7	25.6	24.1	24.1
15°	89.6	78.2	66.7	55.9	46.4	38.6	32.7	28.7	26.9	26.7
17.5°	102.4	89.4	75.7	62.9	51.4	41.7	34.7	29.8	27.6	27.4
20°	117.0	100.5	84.8	68.9	55.4	44.2	35.8	30.2	27.4	27.2
22.5°	132.5	113.7	94.3	75.7	59.6	46.6	36.9	30.7	27.6	27.2
25°	149.9	127.4	104.0	82.6	63.8	48.8	38.0	31.1	27.8	27.4
27.5°	166.5	141.5	114.4	89.0	67.6	50.8	38.9	31.6	28.0	27.6
30°	184.1	155.4	124.5	95.8	71.5	52.8	39.7	31.8	28.0	27.6
32.5°	202.0	168.9	135.1	102.0	74.8	54.1	40.2	32.0	28.3	27.8
35°	221.0	183.5	145.1	108.4	77.9	55.4	40.6	32.2	28.3	27.8
37.5°	238.4	197.4	154.8	113.9	80.6	56.5	41.1	32.2	28.5	28.0
40°	254.1	210.0	163.4	118.8	82.8	57.2	41.3	32.5	28.7	28.3
42.5°	269.6	222.3	171.1	122.8	84.6	57.6	41.5	32.7	28.9	28.5
45°	283.3	232.7	178.2	126.5	85.9	58.1	41.7	32.9	29.1	28.7
47.5°	295.4	242.4	184.8	129.6	86.8	58.3	41.9	33.1	29.6	29.1
50°	307.1	251.7	189.9	132.0	87.6	58.5	41.9	33.6	30.2	29.8
52.5°	317.0	259.2	194.5	134.0	88.1	58.7	42.4	34.0	30.7	30.5
55°	325.7	265.8	198.7	135.6	88.5	58.7	42.8	34.7	31.6	31.1
57.5°	332.7	271.1	201.6	136.4	88.5	58.9	43.1	35.5	32.5	32.0
60°	338.9	275.8	204.2	137.5	88.8	59.2	43.7	36.4	33.6	33.3
62.5°	344.0	279.3	206.2	138.2	89.0	59.8	44.6	37.5	34.7	34.4
65°	347.9	282.4	207.8	138.6	89.2	60.3	45.5	38.6	36.2	36.0
67.5°	350.6	284.6	208.9	138.9	89.4	60.9	46.6	40.2	37.8	37.3
70°	*352.6*	*285.9*	*209.5*	*139.1*	*89.9*	*61.6*	*47.9*	*41.5*	*39.3*	*39.1*
71°	353.0	286.1	209.7	139.1	90.1	62.0	48.4	42.2	40.0	39.7
72.5°	353.2	286.4	209.7	139.1	90.3	62.7	49.2	43.3	41.1	40.8
75°	353.0	286.1	209.5	139.1	90.7	63.8	50.8	44.8	42.8	42.6
77.5°	351.5	285.2	208.9	139.1	91.4	65.1	52.5	47.0	44.8	44.6
80°	348.8	283.5	207.8	138.9	92.1	66.7	54.3	49.0	46.8	46.6
82.5°	345.3	280.8	206.2	138.9	92.9	68.0	56.1	50.8	49.0	48.8
85°	340.7	277.7	204.7	138.6	94.1	69.8	58.3	53.2	51.4	51.0
87.5°	335.1	274.0	202.9	138.6	95.2	71.8	60.5	55.4	53.6	53.2
90°	329.0	269.8	201.1	138.6	96.5	73.7	62.9	57.8	55.9	55.6
92.5°	322.8	265.8	199.4	138.9	98.2	75.9	65.4	60.5	58.5	58.5
95°	315.7	261.0	197.4	139.3	100.0	78.4	68.2	63.1	61.2	60.9
97.5°	308.7	256.5	195.8	140.0	102.0	81.2	70.9	66.0	64.0	63.6
100°	300.7	251.9	194.3	140.9	104.4	83.9	73.7	68.9	66.9	66.7
102.5°	293.0	246.8	192.5	142.0	106.9	87.0	76.8	71.8	69.8	69.5
105°	284.6	241.5	190.5	142.8	109.3	89.9	79.7	74.4	72.2	72.2
107.5°	276.4	236.0	188.5	143.9	111.7	92.7	82.4	77.1	74.6	74.4

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

Scaled Data Report

REPORT NUMBER: P1223967
CATALOG NUMBER: FFX-CLB-20-750-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	267.1	230.1	186.1	144.6	113.9	95.2	84.8	79.0	76.6	76.4
112.5°	258.8	223.6	183.5	144.8	115.9	97.4	86.8	80.8	78.4	77.9
115°	248.2	217.0	179.9	144.4	117.0	99.1	88.1	81.9	79.3	78.8
117.5°	238.0	209.5	176.2	143.3	117.7	100.0	89.0	82.6	79.7	79.3
120°	227.6	201.1	170.9	141.3	117.0	100.0	89.0	82.1	79.3	79.0
122.5°	215.9	192.3	165.4	138.4	115.9	99.1	88.1	81.5	78.4	78.2
125°	203.8	182.8	158.7	134.5	113.7	97.8	86.8	80.1	77.1	76.8
127.5°	192.1	173.1	151.9	129.8	110.6	95.6	85.0	78.2	75.1	74.6
130°	180.6	162.9	144.2	124.3	106.9	92.7	82.6	76.2	73.1	72.6
132.5°	168.7	153.2	136.4	119.0	102.9	89.6	79.9	73.7	70.9	70.4
135°	157.4	143.1	128.1	112.6	98.2	86.1	77.1	71.3	68.4	68.2
137.5°	146.6	133.6	120.3	106.4	93.6	82.6	74.2	68.9	66.2	65.8
140°	135.6	124.3	112.4	100.5	88.5	78.8	71.3	66.2	63.8	63.4
142.5°	126.1	115.5	104.9	93.8	83.7	74.8	68.2	63.6	61.6	61.4
145°	116.1	106.9	97.4	87.9	79.0	71.3	65.4	61.4	59.4	59.2
147.5°	107.3	98.5	90.3	82.1	74.4	67.6	62.5	59.2	57.6	57.4
150°	98.2	91.2	84.1	76.6	70.0	64.2	60.1	57.2	55.6	55.4
152.5°	90.3	84.3	77.9	72.2	66.0	61.4	57.8	55.2	54.1	53.9
155°	83.5	78.4	73.1	67.8	62.9	59.2	56.1	53.9	53.0	53.0
157.5°	77.5	73.1	68.7	64.2	60.3	57.0	54.5	53.0	52.1	51.9
160°	71.8	68.2	64.2	60.9	57.8	55.4	53.4	52.1	51.4	51.2
162.5°	67.1	64.0	61.4	58.5	56.1	54.1	52.5	51.4	51.0	51.0
165°	63.1	60.9	58.5	56.5	54.5	53.0	51.9	51.2	50.8	50.8
167.5°	60.1	58.1	56.5	54.8	53.4	52.3	51.4	51.0	50.8	50.6
170°	57.4	56.1	54.8	53.6	52.5	51.9	51.2	51.0	50.8	50.8
172.5°	55.4	54.5	53.6	52.8	52.1	51.4	51.2	51.0	51.0	51.0
175°	53.9	53.4	52.8	52.3	51.9	51.7	51.4	51.4	51.4	51.4
177.5°	53.2	52.8	52.5	52.3	52.1	52.1	52.1	52.3	52.3	52.3
180°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2

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

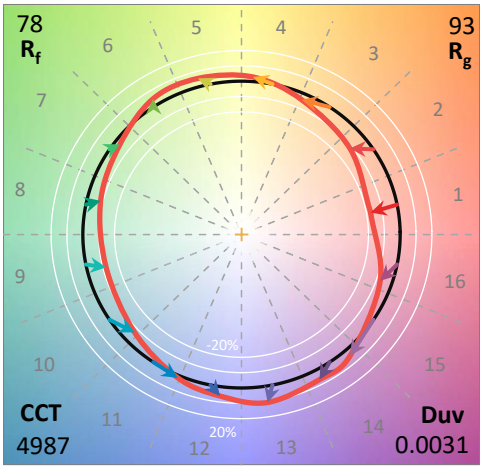
Test Information

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

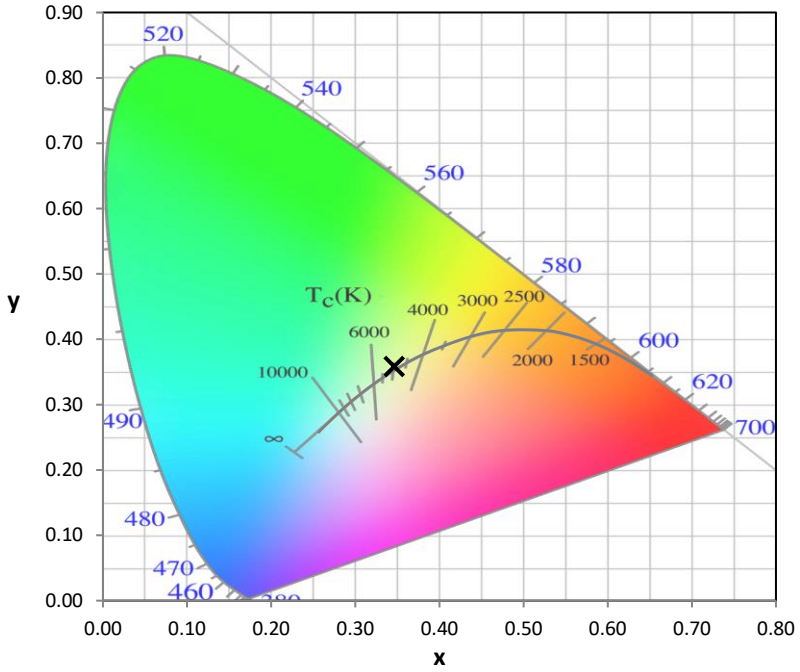
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

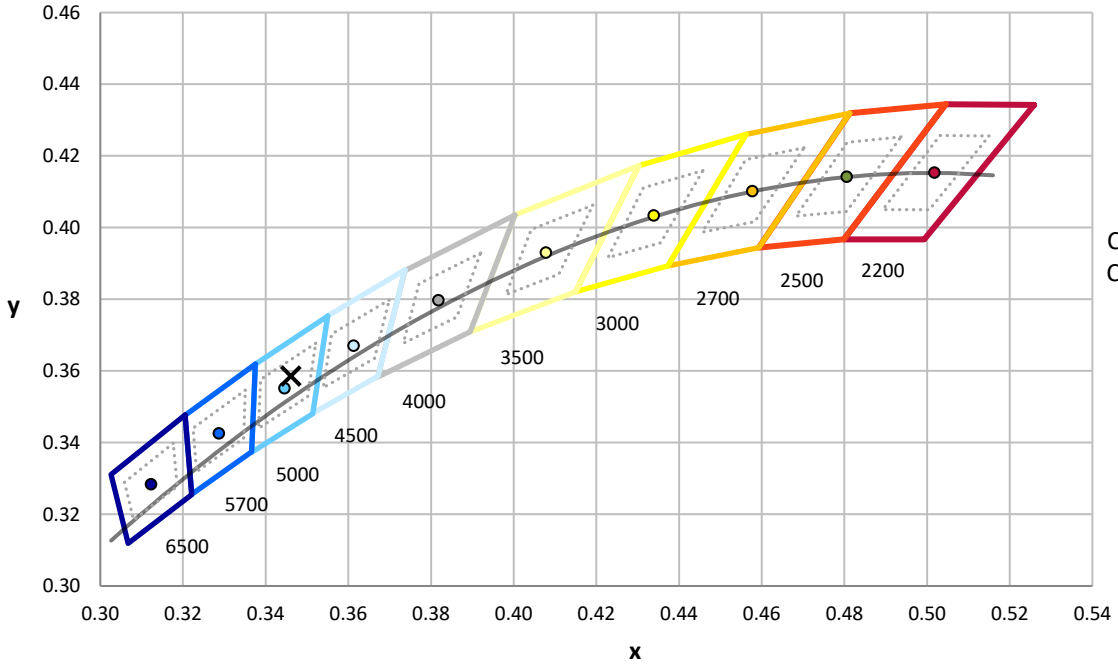
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

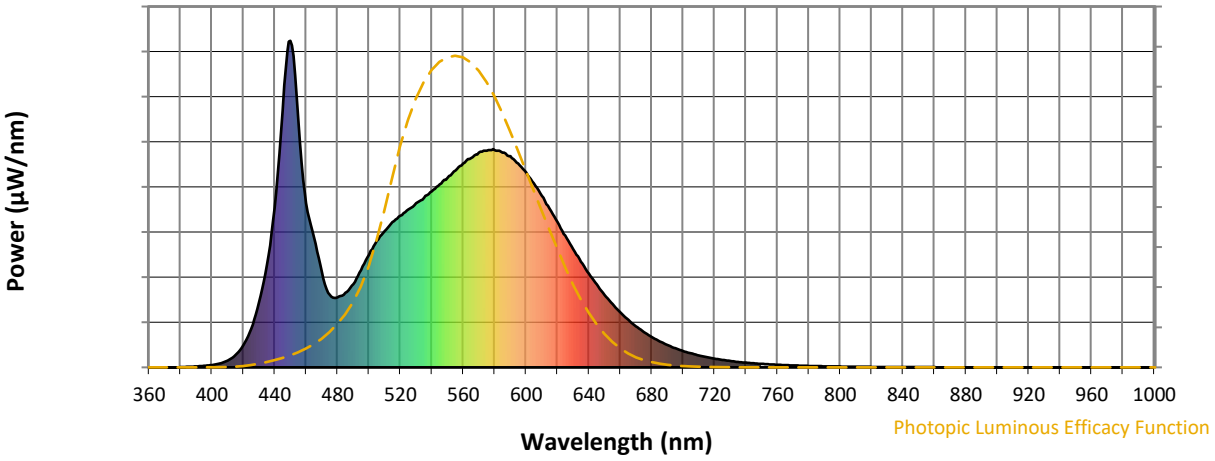


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

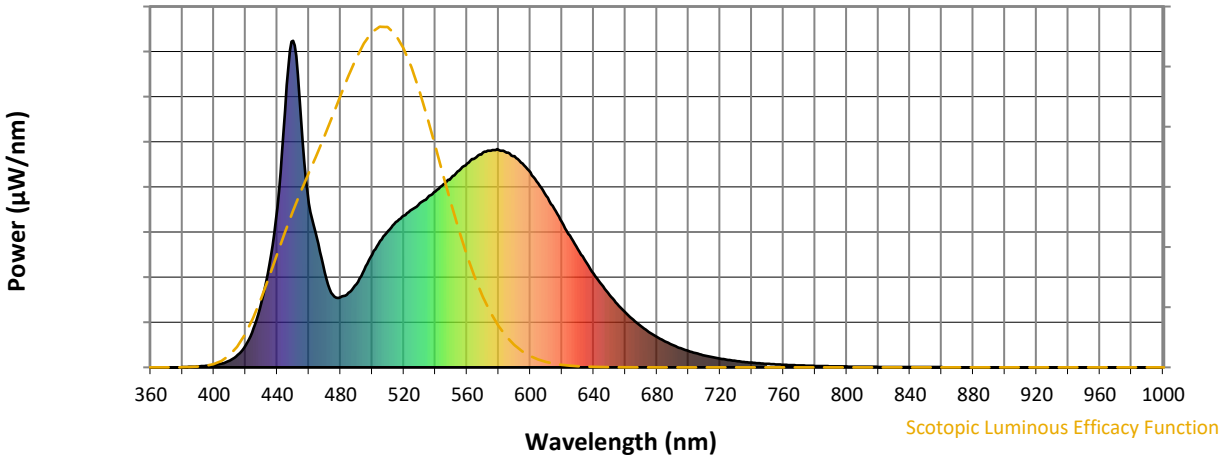


Photopic Lumens: NR

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

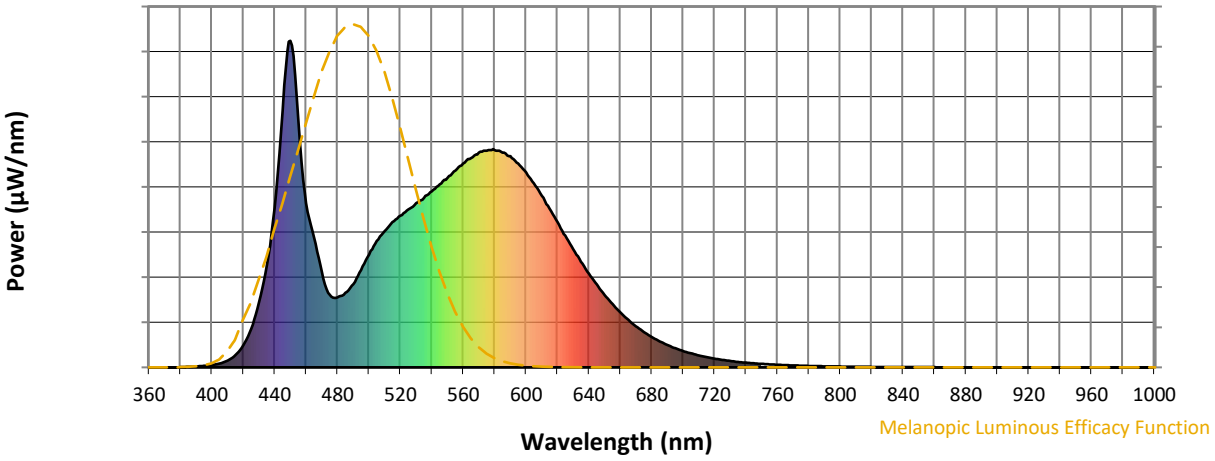


Scotopic Lumens: NR **S/P: 1.87**

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			

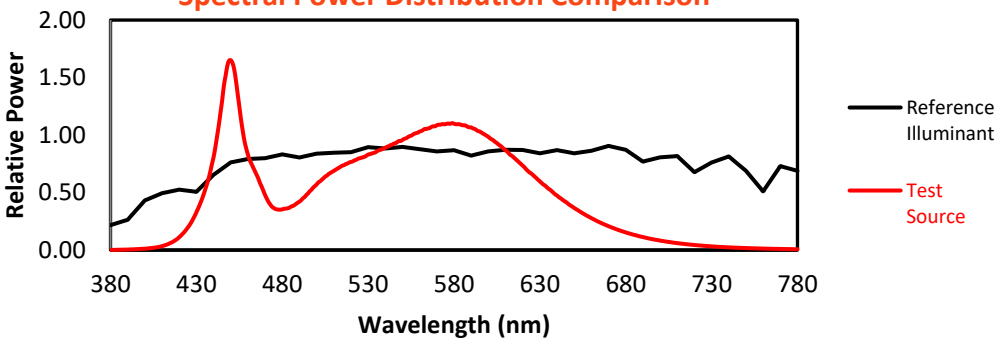
REPORT NUMBER: SP1-2501-332-5

TM-30-18

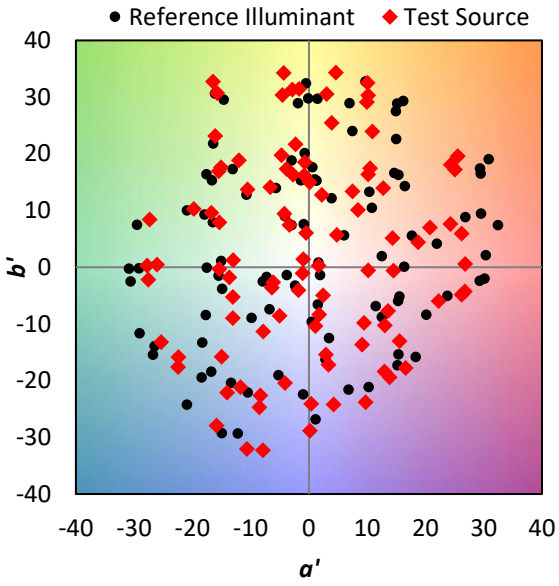
Summary

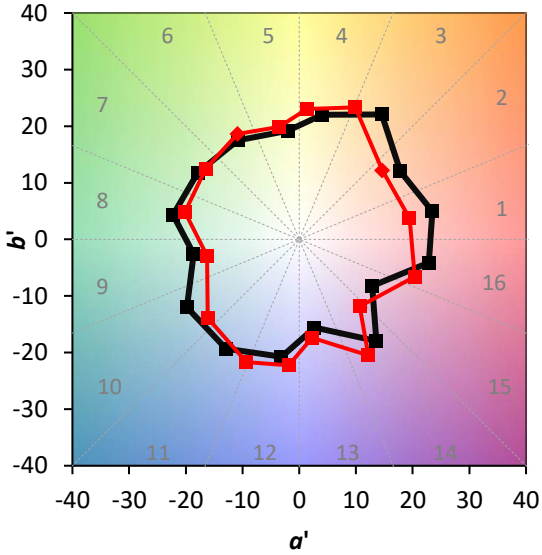
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R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

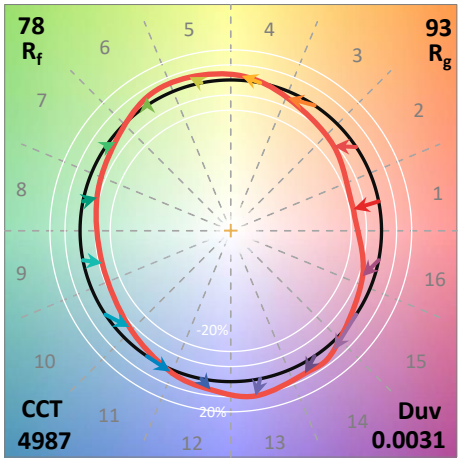
Spectral Power Distribution Comparison

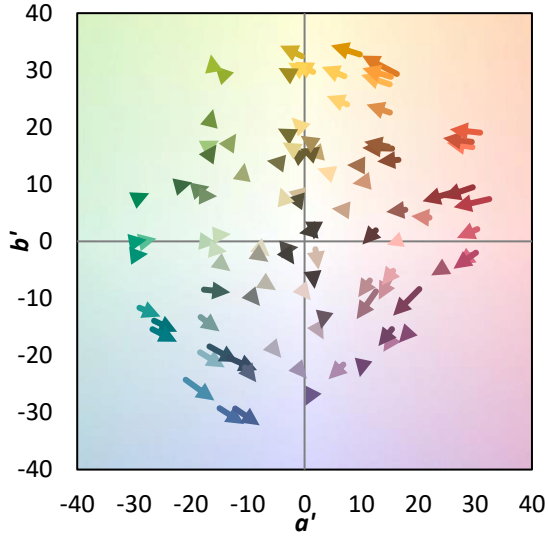


Color Vector Graphics







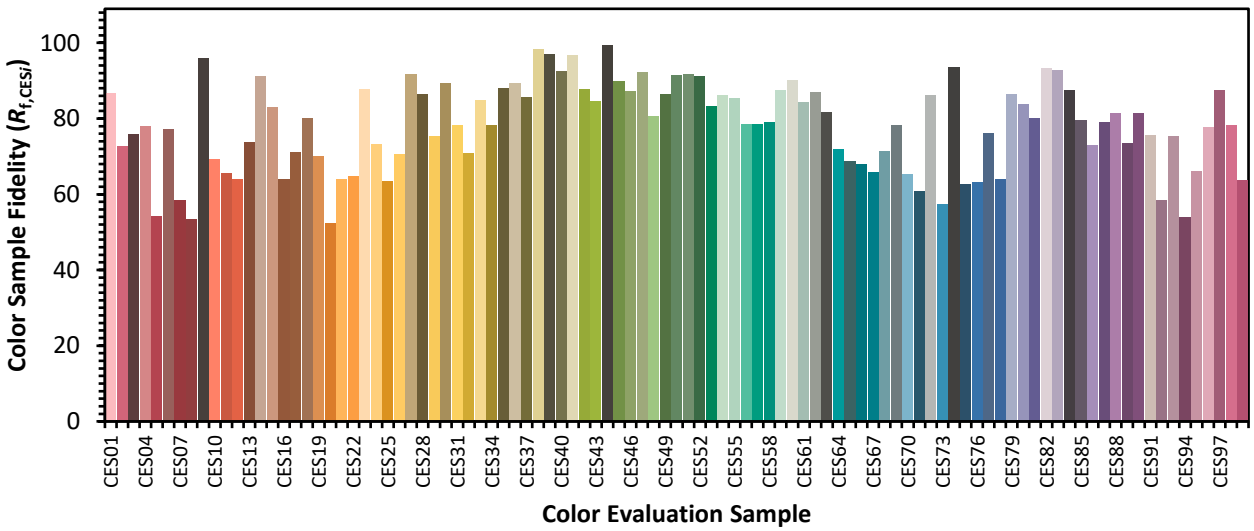


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

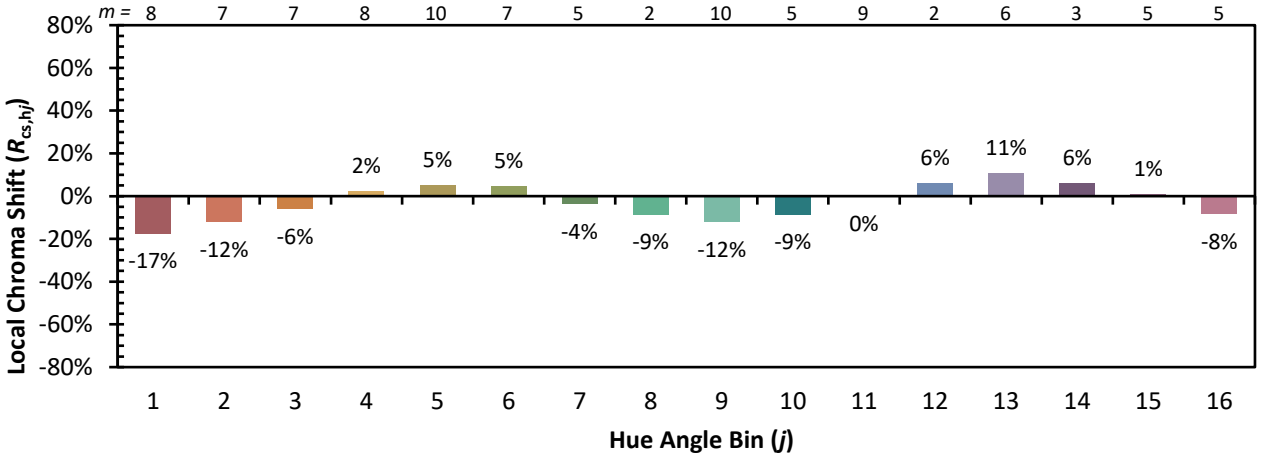
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CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 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	

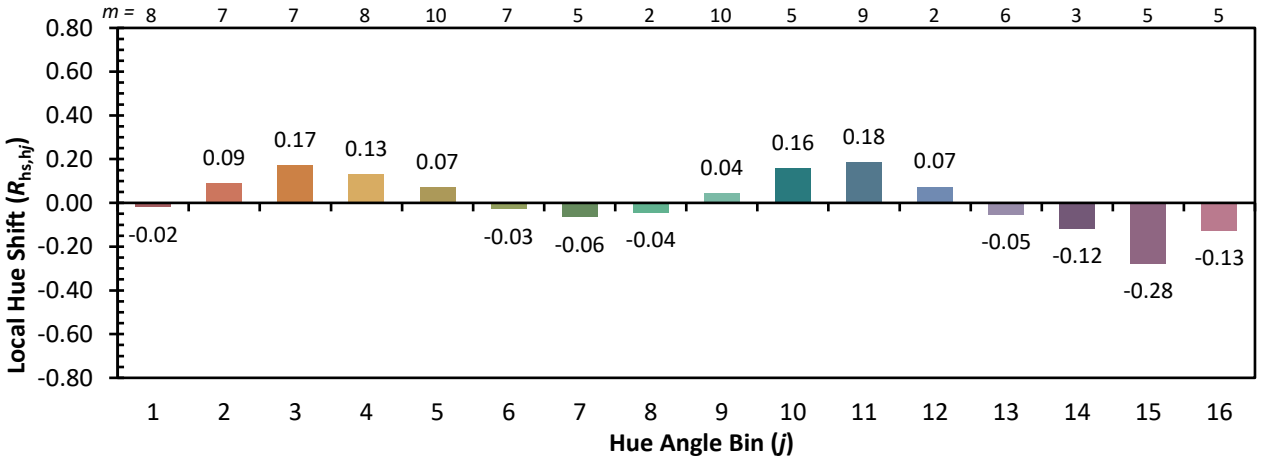


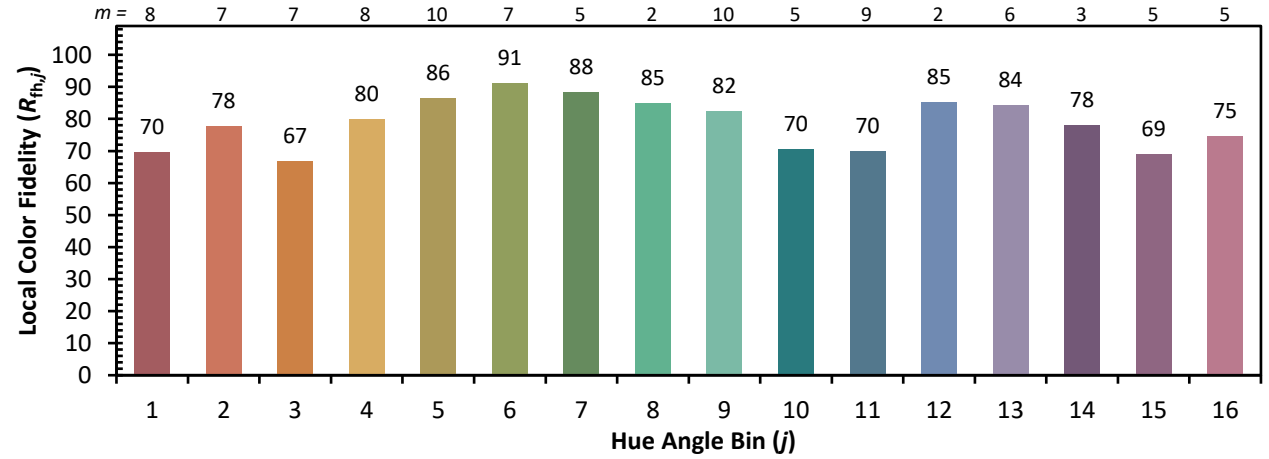
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



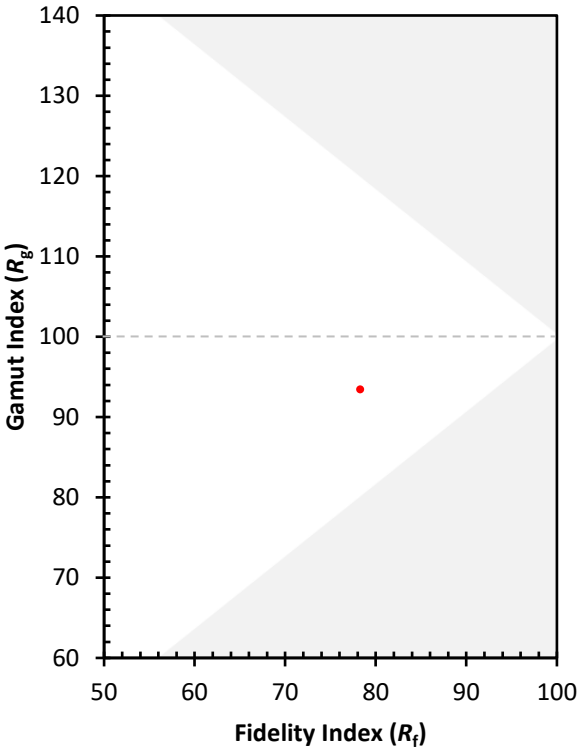


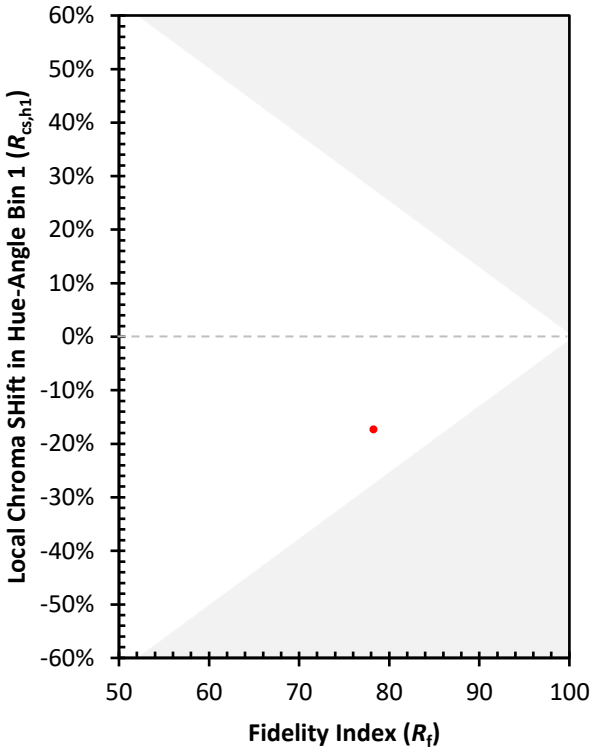


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TM-30-18

Measure Comparisons





(END OF REPORT)