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: P981595

Luminaire Tested: **FFX-CLB-30-AMB-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981595
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-AMB-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 1500K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	853.8 lumens
Efficiency:	N/A
Efficacy:	29.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B0 - U3 - G1

Input Watts (W):	28.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	13%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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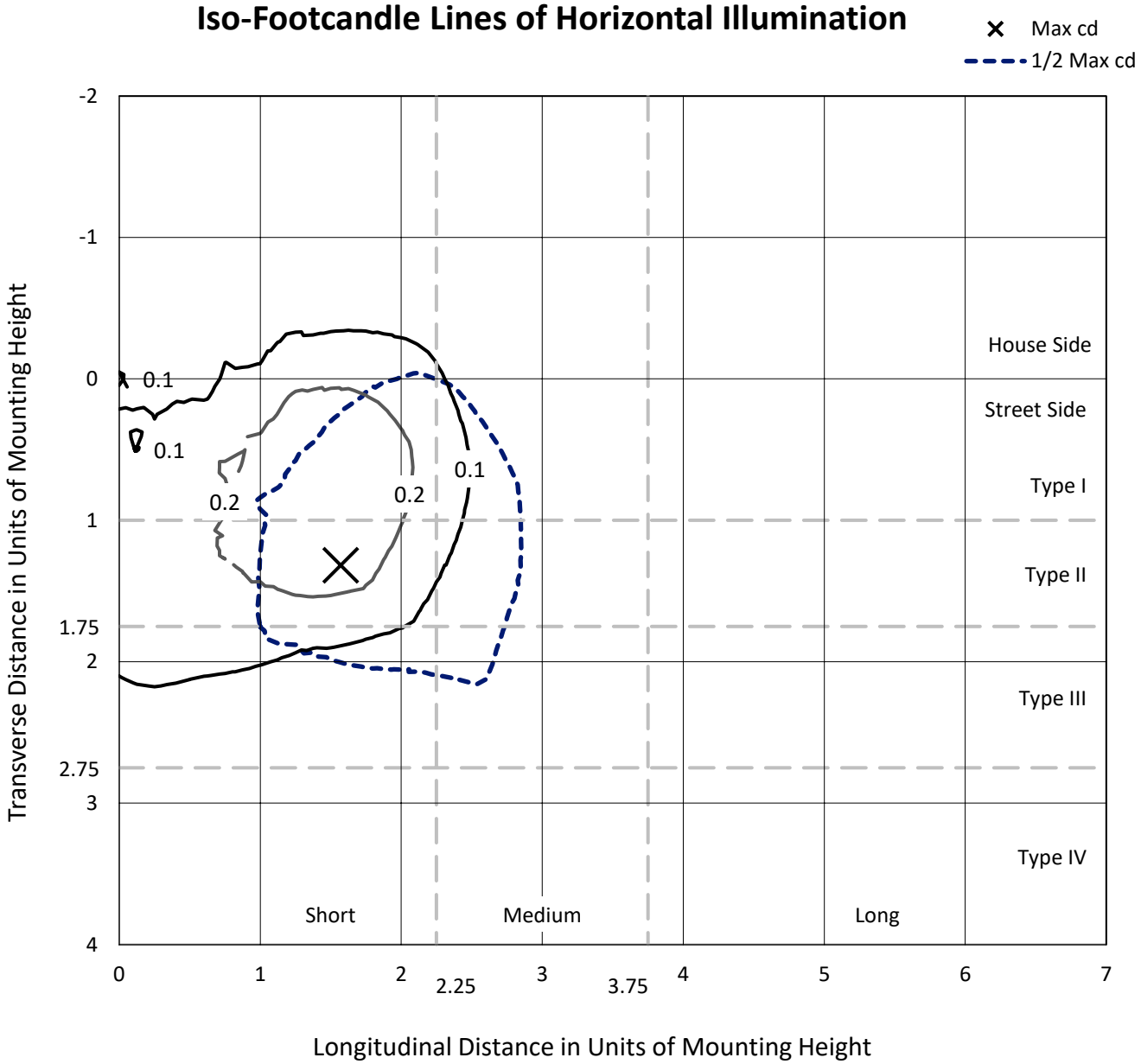
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 0.4 fc
Type III - Short - N/A

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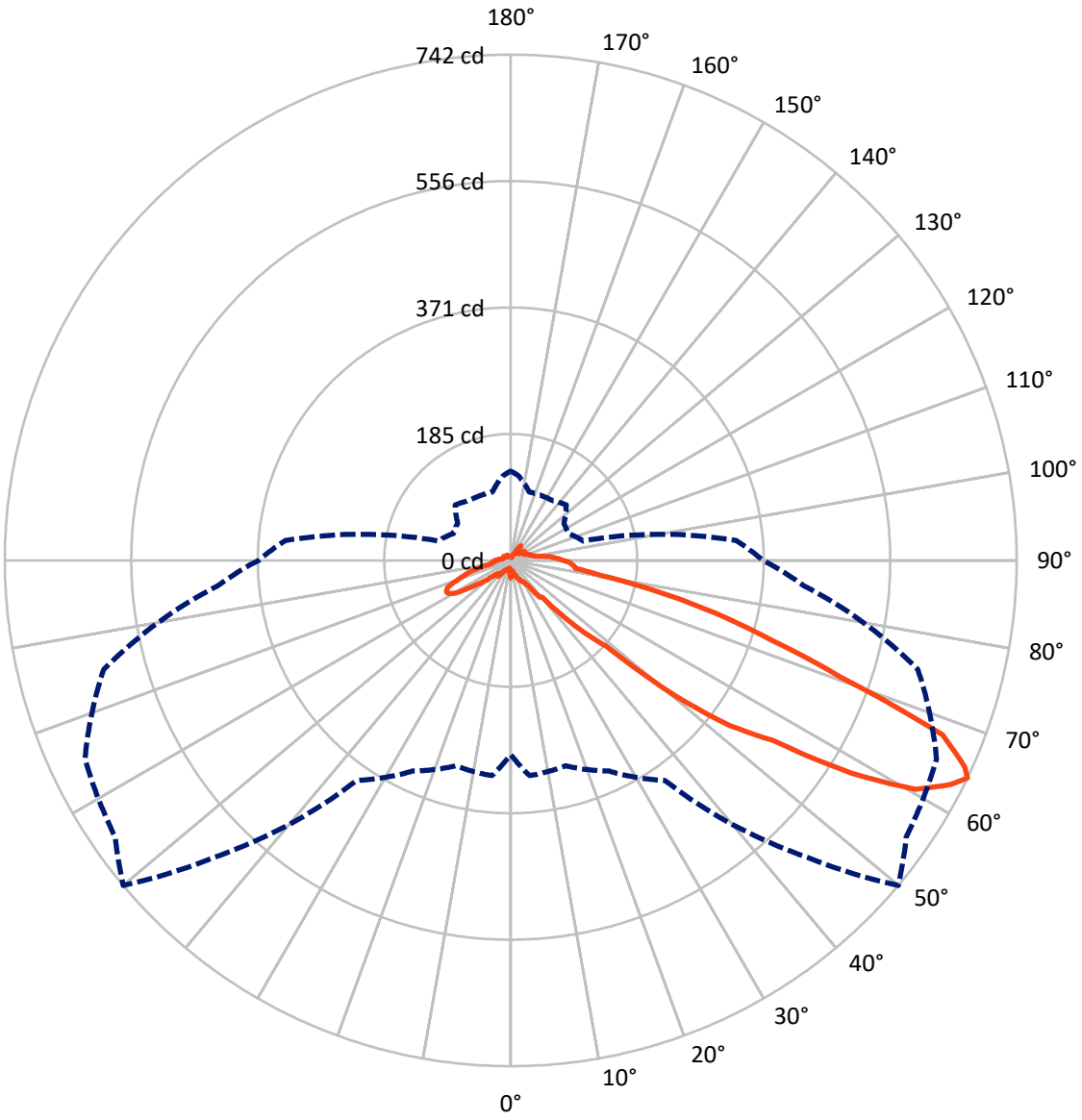
Luminous Intensity Polar Plot



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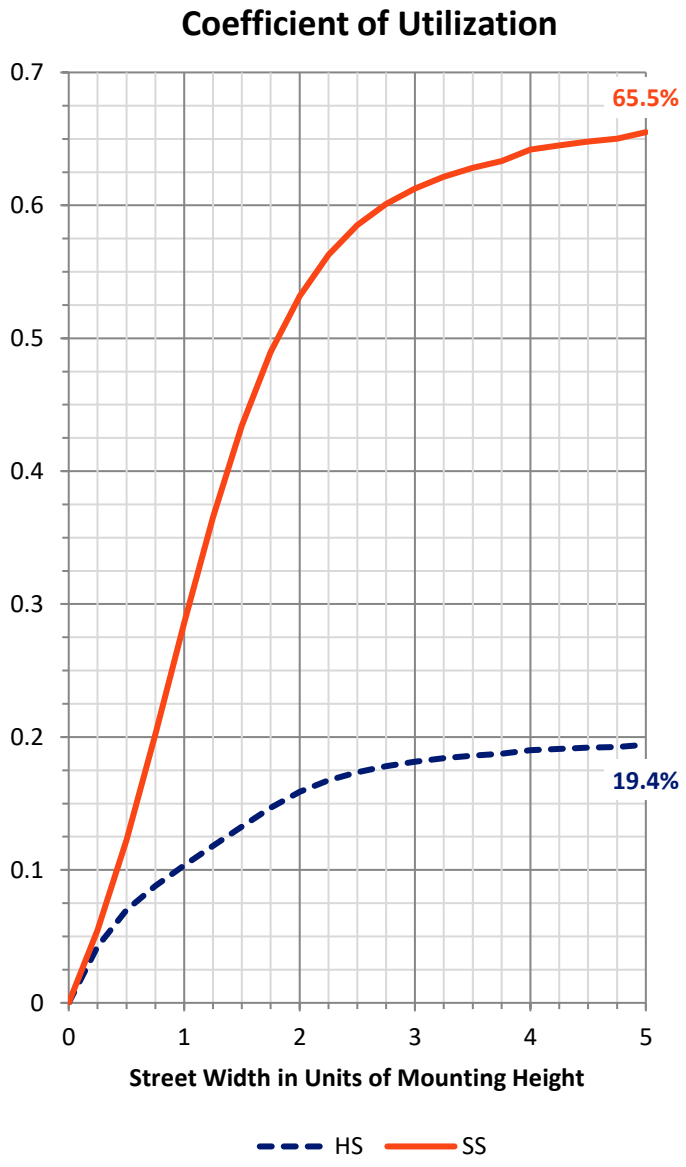
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	172.4	34.3	206.7
	% Fixture	20.2	4.0	24.2
Street Side	Lumens	578.6	68.6	647.1
	% Fixture	67.8	8.0	75.8
Total	Lumens	750.9	102.9	853.8
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.2
10°-20°	5.3	0.6
20°-30°	10.7	1.3
30°-40°	23.2	2.7
40°-50°	56.1	6.6
50°-60°	173.5	20.3
60°-70°	285.7	33.5
70°-80°	143.0	16.8
80°-90°	51.9	6.1
90°-100°	32.1	3.8
100°-110°	19.4	2.3
110°-120°	15.2	1.8
120°-130°	12.7	1.5
130°-140°	9.0	1.0
140°-150°	8.9	1.0
150°-160°	3.8	0.4
160°-170°	1.5	0.2
170°-180°	0.5	0.1
0°-90°	750.9	87.9
0°-180°	853.8	100.0



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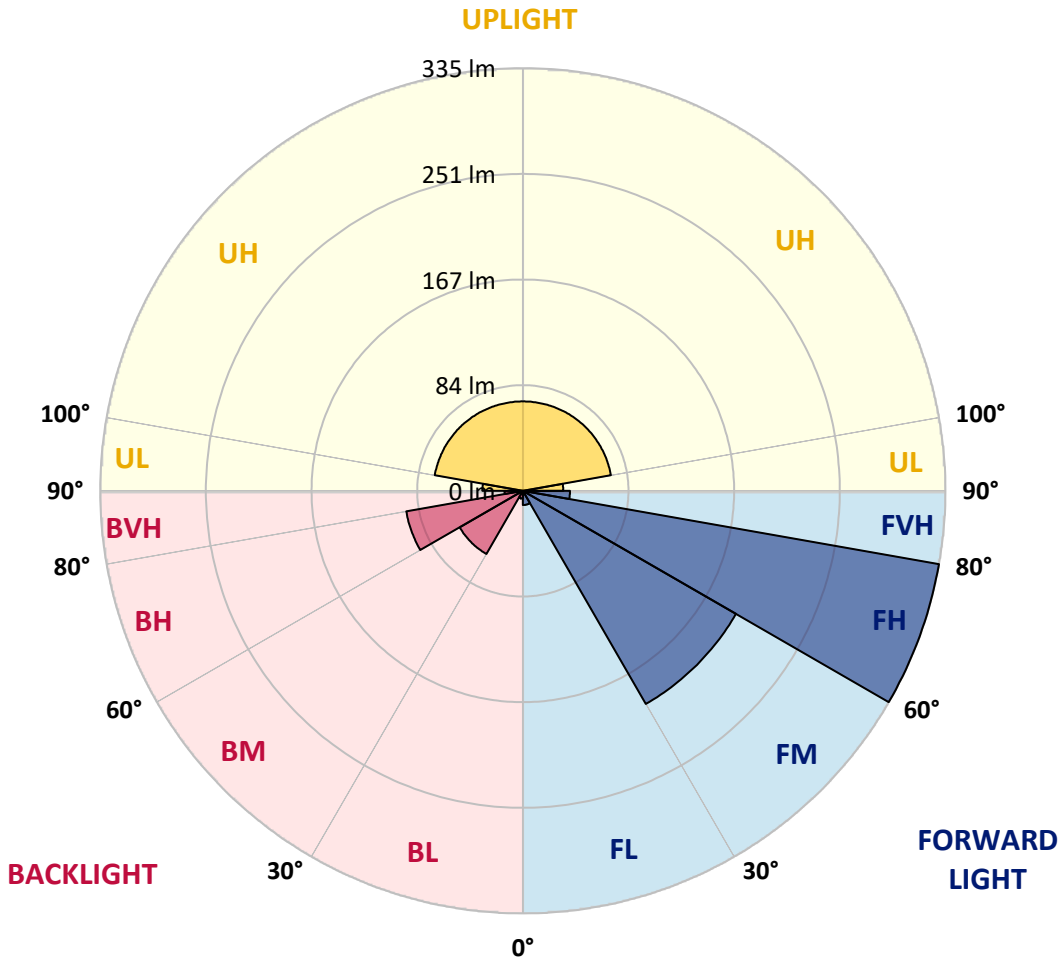
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	11.3	1.3			
FM	(30°-60°)	195.0	22.8			
FH	(60°-80°)	334.9	39.2			G0/660
FVH	(80°-90°)	37.4	4.4			G1/100
BL	(0°-30°)	6.2	0.7	B0/110		
BM	(30°-60°)	57.8	6.8	B0/220		
BH	(60°-80°)	93.8	11.0	B0/110		G0/110
BVH	(80°-90°)	14.5	1.7			G1/100
UL	(90°-100°)	32.1	3.8		U2/50	
UH	(100°-180°)	70.9	8.3		U3/500	

BUG Rating: B0-U3-G1
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	26.0	26.0	26.0	26.0	26.0	26.0	*26.0*	26.0	26.0	26.0	26.0
2.5°	12.0	12.0	16.0	20.0	22.0	20.0	*19.0*	17.0	19.0	25.0	29.0
5°	15.0	15.0	15.0	15.0	18.0	22.0	*22.0*	21.0	16.0	12.0	11.0
7.5°	17.0	17.0	17.0	16.0	14.0	14.0	*15.0*	17.0	17.0	14.0	13.0
10°	19.0	20.0	19.0	19.0	19.0	19.0	*18.0*	17.0	16.0	15.0	14.0
12.5°	25.0	25.0	25.0	25.0	23.0	21.0	*21.0*	22.0	21.0	18.0	17.0
15°	29.0	29.0	29.0	28.0	25.0	23.0	*22.0*	22.0	21.0	21.0	20.0
17.5°	30.0	30.0	29.0	27.0	26.0	25.0	*24.0*	24.0	24.0	23.0	21.0
20°	28.0	28.0	27.0	27.0	28.0	27.0	*27.0*	27.0	26.0	25.0	23.0
22.5°	28.0	28.0	28.0	28.0	30.0	30.0	*30.0*	30.0	29.0	27.0	24.0
25°	31.0	31.0	30.0	30.0	31.0	32.0	*32.0*	32.0	32.0	29.0	25.0
27.5°	33.0	33.0	32.0	33.0	33.0	35.0	*34.0*	35.0	35.0	32.0	26.0
30°	36.0	35.0	35.0	36.0	36.0	38.0	*37.0*	38.0	39.0	35.0	28.0
32.5°	39.0	39.0	39.0	40.0	40.0	42.0	*41.0*	42.0	44.0	39.0	32.0
35°	44.0	45.0	47.0	49.0	49.0	49.0	*48.0*	48.0	50.0	46.0	40.0
37.5°	69.0	68.0	64.0	61.0	60.0	69.0	*68.0*	70.0	71.0	63.0	52.0
40°	61.0	63.0	65.0	62.0	60.0	66.0	*71.0*	67.0	74.9	65.0	54.0
42.5°	67.0	69.0	74.9	77.9	74.9	84.9	*108.9*	85.9	98.9	78.9	72.9
45°	78.9	80.9	80.9	82.9	82.9	108.9	*150.9*	112.9	127.9	96.9	85.9
47.5°	93.9	93.9	98.9	109.9	117.9	138.9	*187.9*	146.9	163.9	121.9	113.9
50°	129.9	131.9	139.9	151.9	156.9	197.9	*311.8*	244.8	271.8	191.9	169.9
52.5°	145.9	158.9	166.9	196.9	197.9	264.8	*402.7*	320.8	338.8	259.8	213.8
55°	161.9	179.9	192.9	229.8	247.8	337.8	*465.7*	393.7	395.7	322.8	251.8
57.5°	213.8	237.8	236.8	267.8	298.8	434.7	*588.6*	542.6	525.6	432.7	307.8
60°	252.8	293.8	282.8	311.8	360.7	545.6	*681.5*	622.6	612.6	541.6	375.7
62.5°	277.8	310.8	299.8	329.8	389.7	611.6	*723.5*	686.5	663.5	587.6	427.7
64°	*284.8*	*316.8*	*311.8*	*340.8*	*393.7*	*616.6*	*741.5*	*707.5*	*688.5*	*617.6*	*431.7*
65°	282.8	317.8	313.8	342.8	385.7	610.6	*731.5*	725.5	688.5	613.6	438.7
67.5°	260.8	297.8	292.8	321.8	346.8	527.6	*682.5*	648.5	633.6	543.6	393.7
70°	216.8	232.8	234.8	253.8	270.8	405.7	*512.6*	494.7	457.7	412.7	300.8
72.5°	187.9	188.9	184.9	195.9	208.9	299.8	*399.7*	379.7	357.7	306.8	227.8
75°	150.9	144.9	148.9	151.9	150.9	219.8	*310.8*	302.8	292.8	238.8	177.9
77.5°	97.9	90.9	101.9	108.9	104.9	140.9	*219.8*	223.8	222.8	170.9	133.9
80°	56.0	56.0	63.0	66.0	64.0	88.9	*132.9*	149.9	149.9	114.9	88.9
82.5°	45.0	47.0	50.0	54.0	52.0	71.0	*95.9*	94.9	97.9	80.9	62.0
85°	53.0	53.0	52.0	52.0	51.0	70.0	*91.9*	91.9	91.9	74.9	56.0
87.5°	51.0	52.0	51.0	51.0	50.0	68.0	*85.9*	87.9	86.9	72.9	56.0
90°	40.0	42.0	44.0	46.0	44.0	58.0	*74.9*	75.9	74.9	65.0	52.0
92.5°	37.0	38.0	38.0	40.0	38.0	51.0	*66.0*	67.0	65.0	56.0	43.0
95°	32.0	33.0	33.0	35.0	33.0	43.0	*57.0*	58.0	55.0	48.0	37.0
97.5°	26.0	27.0	27.0	28.0	26.0	34.0	*43.0*	44.0	41.0	35.0	28.0
100°	23.0	23.0	24.0	24.0	23.0	29.0	*35.0*	36.0	34.0	30.0	24.0
102.5°	21.0	22.0	22.0	22.0	21.0	26.0	*32.0*	32.0	32.0	27.0	22.0
105°	21.0	21.0	22.0	21.0	21.0	25.0	*30.0*	30.0	29.0	26.0	21.0
107.5°	20.0	20.0	21.0	21.0	21.0	24.0	*27.0*	28.0	27.0	24.0	20.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
110°	19.0	19.0	21.0	20.0	20.0	23.0	*26.0*	26.0	25.0	23.0	20.0
112.5°	18.0	18.0	19.0	19.0	19.0	21.0	*23.0*	23.0	23.0	21.0	19.0
115°	17.0	17.0	18.0	17.0	17.0	20.0	*21.0*	22.0	22.0	20.0	18.0
117.5°	16.0	17.0	17.0	18.0	18.0	19.0	*21.0*	21.0	21.0	20.0	18.0
120°	20.0	19.0	19.0	20.0	20.0	22.0	*24.0*	24.0	24.0	22.0	18.0
122.5°	21.0	20.0	21.0	20.0	20.0	23.0	*24.0*	25.0	26.0	24.0	18.0
125°	16.0	16.0	16.0	16.0	16.0	18.0	*19.0*	19.0	20.0	19.0	17.0
127.5°	13.0	13.0	13.0	13.0	14.0	16.0	*16.0*	16.0	17.0	16.0	14.0
130°	13.0	13.0	14.0	14.0	15.0	16.0	*17.0*	17.0	17.0	17.0	14.0
132.5°	13.0	13.0	14.0	16.0	17.0	16.0	*16.0*	15.0	16.0	17.0	16.0
135°	12.0	12.0	12.0	13.0	14.0	15.0	*14.0*	14.0	15.0	16.0	14.0
137.5°	13.0	13.0	12.0	12.0	13.0	15.0	*15.0*	15.0	16.0	15.0	13.0
140°	13.0	13.0	12.0	12.0	13.0	15.0	*16.0*	17.0	17.0	16.0	13.0
142.5°	14.0	14.0	15.0	16.0	16.0	24.0	*23.0*	23.0	26.0	25.0	15.0
145°	22.0	22.0	22.0	21.0	24.0	28.0	*26.0*	26.0	29.0	29.0	19.0
147.5°	21.0	21.0	20.0	20.0	22.0	23.0	*22.0*	22.0	24.0	24.0	20.0
150°	15.0	15.0	14.0	15.0	17.0	18.0	*17.0*	17.0	18.0	19.0	16.0
152.5°	11.0	11.0	11.0	11.0	12.0	11.0	*11.0*	11.0	11.0	11.0	11.0
155°	10.0	10.0	10.0	10.0	11.0	10.0	*10.0*	10.0	10.0	10.0	9.0
157.5°	7.0	7.0	7.0	8.0	9.0	8.0	*8.0*	8.0	8.0	8.0	8.0
160°	6.0	6.0	6.0	7.0	7.0	7.0	*6.0*	6.0	6.0	6.0	7.0
162.5°	5.0	5.0	5.0	6.0	6.0	6.0	*6.0*	6.0	6.0	6.0	6.0
165°	4.0	4.0	5.0	5.0	5.0	5.0	*5.0*	5.0	5.0	5.0	6.0
167.5°	4.0	4.0	4.0	4.0	5.0	4.0	*5.0*	5.0	5.0	5.0	6.0
170°	4.0	4.0	4.0	4.0	4.0	4.0	*5.0*	5.0	5.0	5.0	5.0
172.5°	4.0	4.0	4.0	4.0	5.0	5.0	*5.0*	5.0	5.0	5.0	5.0
175°	4.0	5.0	5.0	5.0	5.0	5.0	*5.0*	5.0	5.0	5.0	5.0
177.5°	4.0	4.0	4.0	4.0	5.0	4.0	*4.0*	4.0	4.0	5.0	5.0
180°	4.0	4.0	4.0	4.0	4.0	4.0	*4.0*	4.0	4.0	4.0	4.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	30.0	29.0	24.0	18.0	17.0	27.0	31.0	31.0	23.0	13.0	10.0
5°	12.0	13.0	17.0	20.0	19.0	16.0	12.0	12.0	17.0	21.0	21.0
7.5°	12.0	11.0	10.0	15.0	13.0	10.0	10.0	10.0	11.0	16.0	17.0
10°	14.0	14.0	14.0	13.0	12.0	13.0	13.0	12.0	12.0	11.0	11.0
12.5°	16.0	16.0	15.0	16.0	17.0	13.0	11.0	11.0	12.0	15.0	16.0
15°	19.0	18.0	16.0	14.0	13.0	13.0	12.0	11.0	11.0	10.0	10.0
17.5°	20.0	19.0	17.0	15.0	14.0	13.0	12.0	11.0	10.0	11.0	10.0
20°	21.0	20.0	17.0	16.0	14.0	13.0	12.0	11.0	10.0	11.0	11.0
22.5°	22.0	21.0	19.0	17.0	15.0	13.0	12.0	11.0	11.0	11.0	11.0
25°	24.0	22.0	20.0	18.0	16.0	14.0	13.0	12.0	11.0	11.0	11.0
27.5°	25.0	24.0	22.0	19.0	17.0	15.0	14.0	12.0	12.0	11.0	11.0
30°	27.0	26.0	23.0	20.0	18.0	16.0	15.0	13.0	12.0	12.0	12.0
32.5°	31.0	30.0	26.0	22.0	20.0	18.0	16.0	14.0	13.0	12.0	12.0
35°	39.0	38.0	32.0	26.0	22.0	20.0	17.0	15.0	13.0	12.0	12.0
37.5°	50.0	48.0	42.0	36.0	31.0	25.0	20.0	16.0	14.0	13.0	13.0
40°	51.0	45.0	38.0	34.0	30.0	30.0	27.0	20.0	15.0	13.0	13.0
42.5°	66.0	59.0	50.0	41.0	25.0	27.0	28.0	25.0	19.0	15.0	14.0
45°	71.0	64.0	54.0	45.0	28.0	29.0	27.0	24.0	22.0	18.0	18.0
47.5°	89.9	80.9	58.0	43.0	30.0	32.0	29.0	26.0	22.0	20.0	20.0
50°	135.9	120.9	81.9	51.0	37.0	39.0	33.0	29.0	27.0	24.0	23.0
52.5°	172.9	156.9	96.9	54.0	47.0	55.0	46.0	37.0	33.0	33.0	33.0
55°	214.8	196.9	92.9	60.0	55.0	67.0	60.0	53.0	48.0	53.0	52.0
57.5°	273.8	257.8	108.9	72.9	70.0	81.9	71.0	66.0	68.0	86.9	93.9
60°	330.8	300.8	112.9	83.9	85.9	103.9	90.9	85.9	88.9	121.9	133.9
62.5°	361.7	322.8	110.9	89.9	92.9	112.9	103.9	103.9	104.9	130.9	137.9
64°	*369.7*	*331.8*	*109.9*	*92.9*	*94.9*	*114.9*	*106.9*	*104.9*	*103.9*	*124.9*	*130.9*
65°	375.7	327.8	107.9	92.9	94.9	113.9	105.9	102.9	98.9	116.9	123.9
67.5°	344.8	298.8	99.9	87.9	91.9	107.9	96.9	87.9	82.9	91.9	97.9
70°	264.8	223.8	84.9	76.9	80.9	88.9	78.9	72.9	67.0	71.0	71.9
72.5°	199.9	170.9	74.9	71.9	71.9	71.9	65.0	58.0	55.0	57.0	57.0
75°	160.9	133.9	71.9	68.0	60.0	62.0	51.0	41.0	39.0	40.0	39.0
77.5°	121.9	101.9	58.0	52.0	44.0	49.0	37.0	27.0	25.0	25.0	24.0
80°	76.9	67.0	38.0	33.0	30.0	35.0	25.0	19.0	19.0	19.0	18.0
82.5°	59.0	55.0	32.0	28.0	25.0	26.0	22.0	19.0	18.0	18.0	17.0
85°	54.0	52.0	30.0	28.0	26.0	27.0	22.0	18.0	18.0	18.0	16.0
87.5°	53.0	49.0	32.0	30.0	26.0	25.0	20.0	16.0	16.0	17.0	15.0
90°	48.0	44.0	29.0	26.0	23.0	21.0	17.0	14.0	15.0	15.0	14.0
92.5°	40.0	35.0	22.0	20.0	19.0	19.0	16.0	14.0	14.0	14.0	14.0
95°	34.0	31.0	19.0	18.0	18.0	18.0	15.0	13.0	13.0	13.0	12.0
97.5°	26.0	24.0	17.0	16.0	15.0	15.0	13.0	11.0	12.0	12.0	11.0
100°	22.0	21.0	15.0	14.0	13.0	13.0	12.0	11.0	11.0	11.0	11.0
102.5°	21.0	20.0	15.0	14.0	13.0	12.0	11.0	10.0	11.0	11.0	11.0
105°	20.0	19.0	15.0	13.0	12.0	12.0	10.0	9.0	10.0	10.0	10.0
107.5°	19.0	18.0	15.0	13.0	12.0	11.0	10.0	9.0	9.0	9.0	9.0

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

Scaled Data Report

REPORT NUMBER: P981595
CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.0	18.0	14.0	13.0	12.0	11.0	10.0	9.0	8.0	8.0	8.0
112.5°	18.0	17.0	14.0	12.0	11.0	10.0	10.0	9.0	8.0	8.0	8.0
115°	17.0	16.0	13.0	11.0	10.0	10.0	9.0	8.0	8.0	8.0	8.0
117.5°	17.0	15.0	12.0	11.0	10.0	10.0	9.0	9.0	8.0	8.0	8.0
120°	17.0	15.0	12.0	12.0	12.0	11.0	10.0	9.0	8.0	7.0	8.0
122.5°	16.0	16.0	15.0	13.0	12.0	12.0	10.0	8.0	7.0	7.0	7.0
125°	15.0	15.0	13.0	11.0	10.0	10.0	9.0	8.0	7.0	7.0	7.0
127.5°	13.0	12.0	11.0	10.0	10.0	9.0	9.0	8.0	8.0	7.0	7.0
130°	13.0	12.0	11.0	10.0	10.0	9.0	8.0	8.0	8.0	7.0	7.0
132.5°	15.0	13.0	11.0	10.0	9.0	9.0	8.0	8.0	7.0	7.0	7.0
135°	13.0	12.0	10.0	9.0	8.0	8.0	8.0	8.0	7.0	6.0	6.0
137.5°	12.0	10.0	9.0	8.0	8.0	9.0	9.0	8.0	7.0	6.0	6.0
140°	11.0	10.0	9.0	9.0	8.0	8.0	7.0	7.0	6.0	6.0	6.0
142.5°	12.0	11.0	9.0	8.0	8.0	8.0	8.0	7.0	6.0	6.0	5.0
145°	14.0	12.0	11.0	10.0	9.0	9.0	8.0	7.0	6.0	5.0	5.0
147.5°	16.0	14.0	13.0	11.0	10.0	9.0	7.0	6.0	5.0	5.0	5.0
150°	13.0	12.0	11.0	10.0	9.0	7.0	6.0	5.0	5.0	5.0	5.0
152.5°	9.0	8.0	8.0	7.0	7.0	6.0	5.0	5.0	5.0	5.0	5.0
155°	9.0	8.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0
157.5°	7.0	7.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0
160°	7.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0
162.5°	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
165°	6.0	6.0	5.0	5.0	5.0	5.0	6.0	5.0	5.0	5.0	5.0
167.5°	6.0	6.0	5.0	5.0	5.0	5.0	6.0	6.0	5.0	5.0	5.0
170°	5.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0
172.5°	5.0	5.0	5.0	6.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0
175°	5.0	5.0	6.0	6.0	5.0	5.0	5.0	6.0	6.0	7.0	7.0
177.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0
180°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

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: SP1-2501-332-6

Test Date: 03/28/2025

Luminaire Tested: FFX-CLB-AMB-U-FR-T5

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

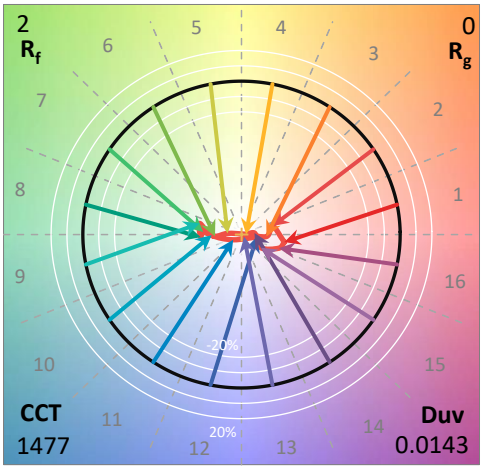
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-6
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-AMB-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR AMBER T5

Spectral Parameters

CCT (K):	1477	CRI (Ra):	-16.4		
CIE u':	0.3612	R1:	-26.9	R9:	-362.0
CIE v':	0.5457	R2:	55.7	R10:	34.1
Duv:	0.0143	R3:	19.5	R11:	-85.9
CIE x:	0.5980	R4:	-61.2	R12:	-0.3
CIE y:	0.4014	R5:	-34.3	R13:	-8.9
CIE z:	0.0006	R6:	47.8	R14:	48.3
Peak Wavelength (nm):	599	R7:	-4.8	R15:	-60.0
Dominant Wavelength (nm):	594	R8:	-127.3		
Purity:	99.99006				
Rf:	1.7				
Rg:	0.1				



Test Conditions

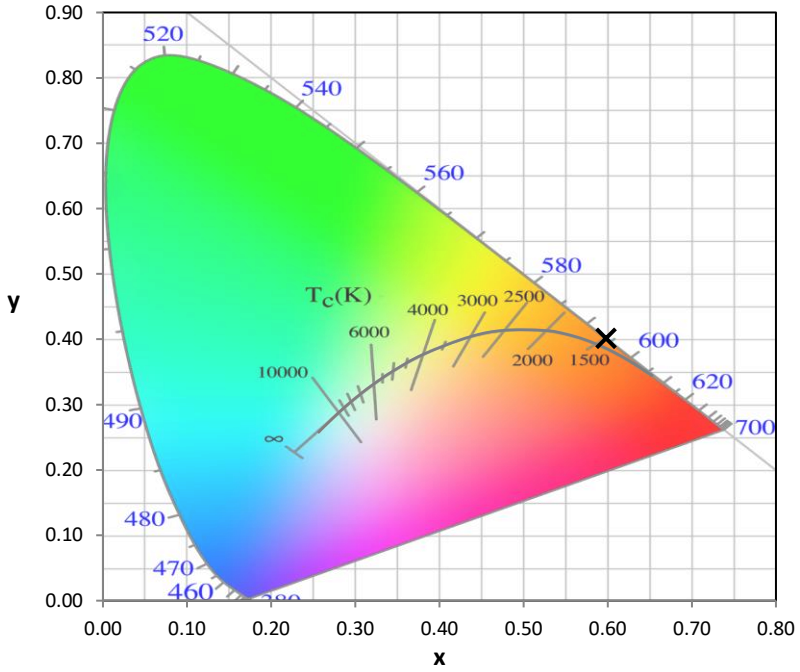
Stabilization Time:	152M
Operation Time:	3H 32M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-6

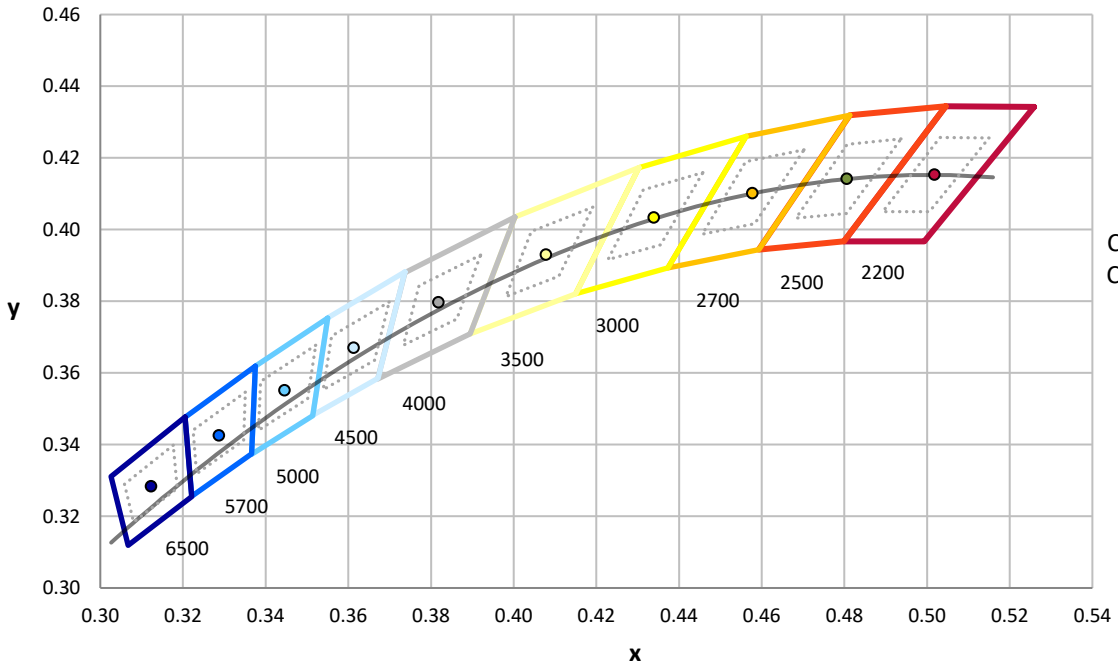
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-6

CIE 1931 Chromaticity Diagram



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

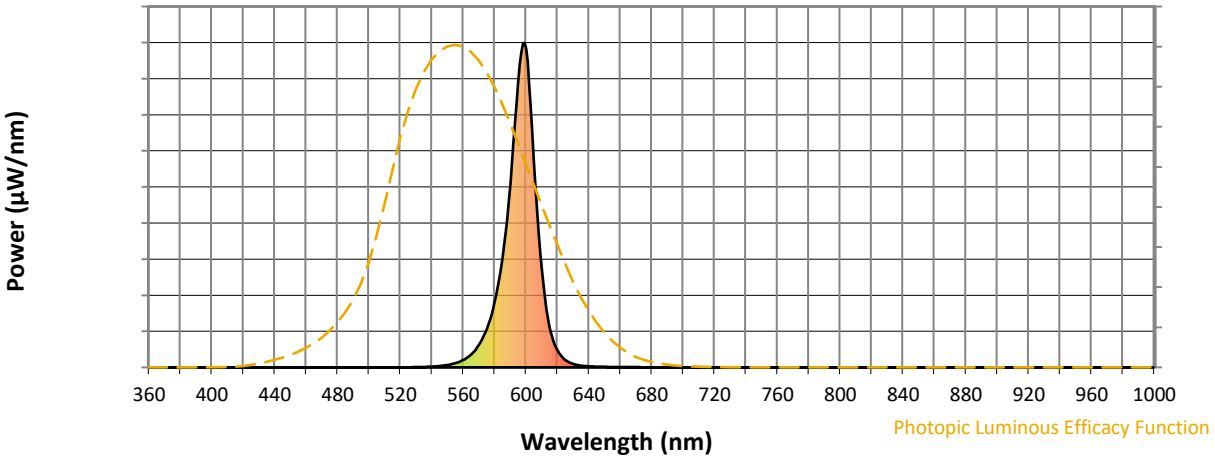


CCT = 1477K
CIE x = 0.5980
CIE y = 0.4014
Duv = 0.0143

Point lies outside the range

REPORT NUMBER: SP1-2501-332-6

Photopic Flux vs. Wavelength

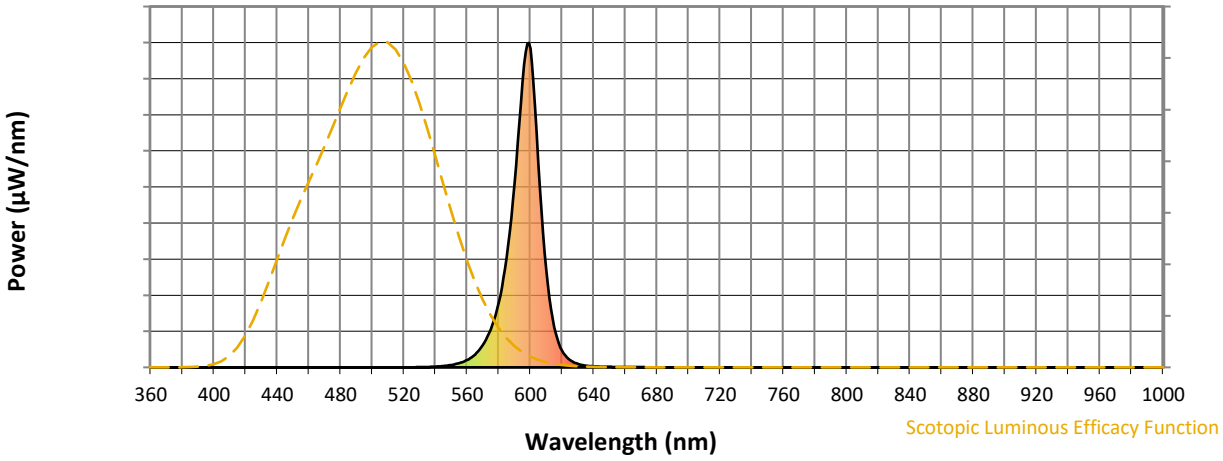


Photopic Lumens: NR

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	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-6

Scotopic Flux vs. Wavelength

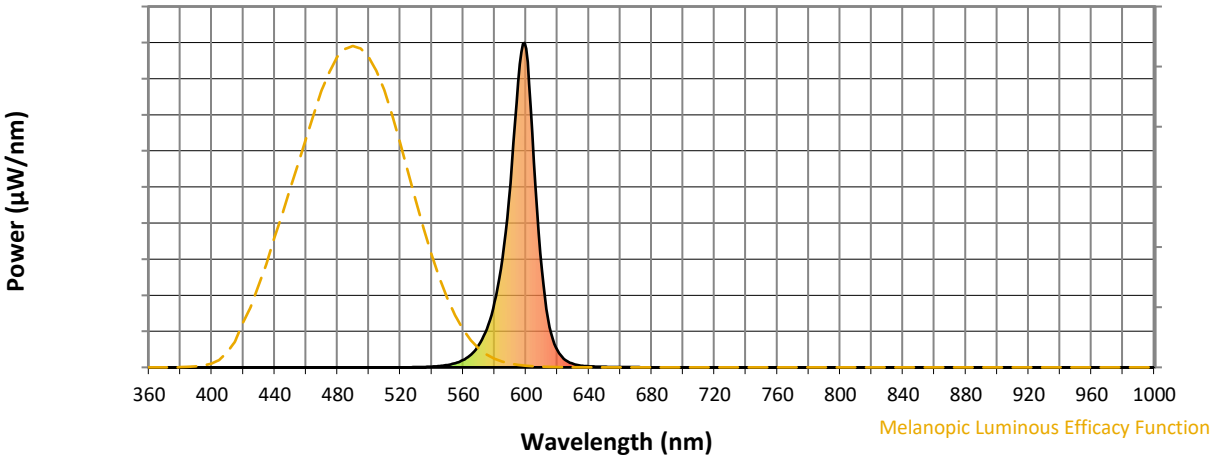


Scotopic Lumens: NR **S/P: 0.21**

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	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 0.11**

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	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

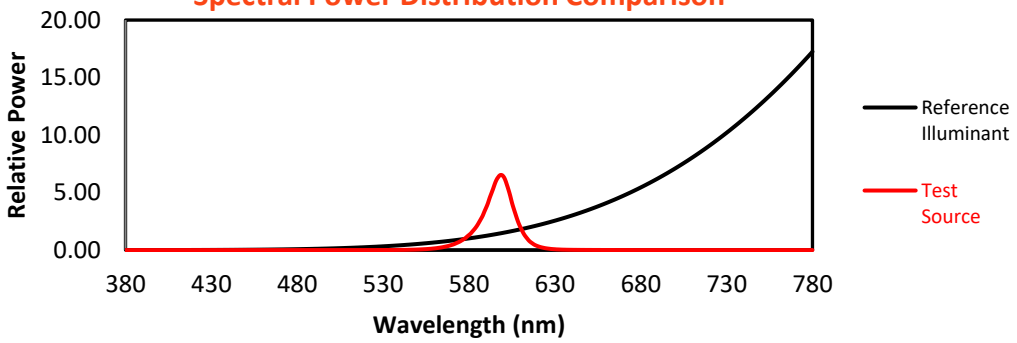
REPORT NUMBER: SP1-2501-332-6

TM-30-18

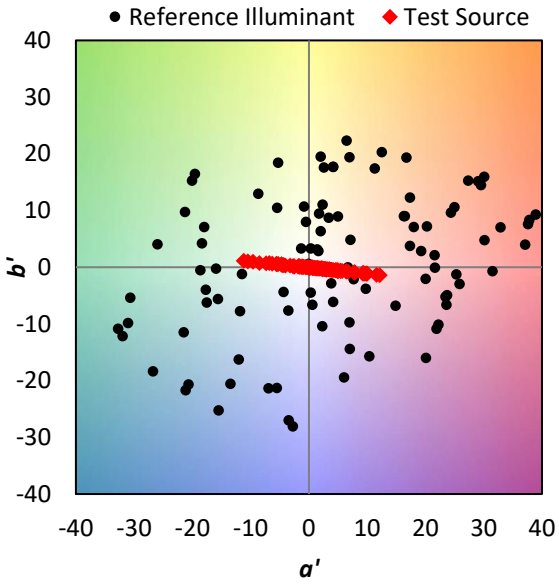
Summary

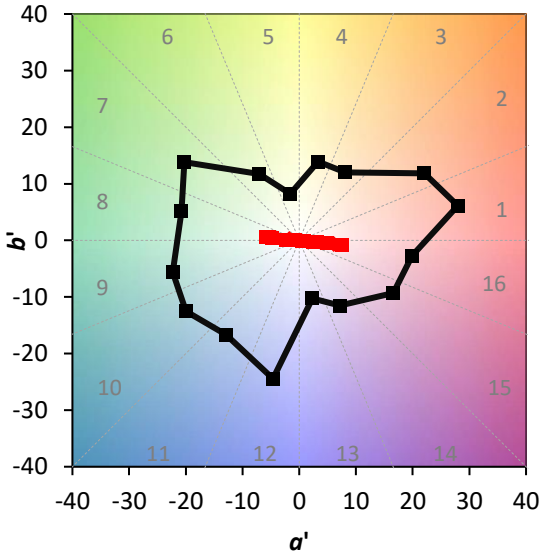
R_f = 1.7
R_g = 0.1
CIE R_a = -16.4
R_9 = -362.0

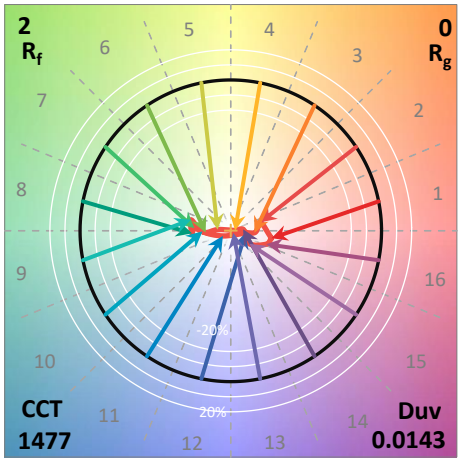
Spectral Power Distribution Comparison

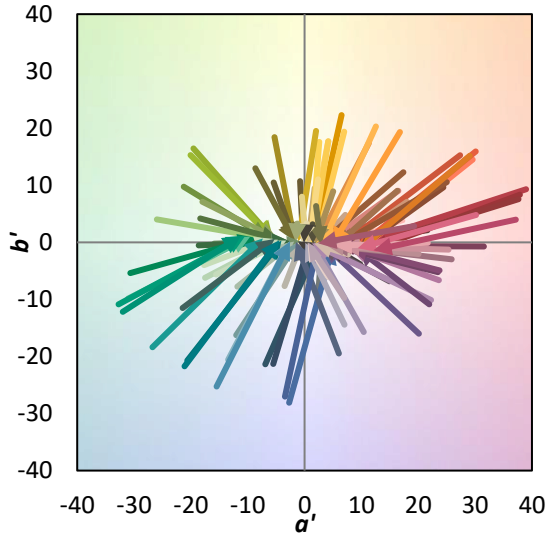


Color Vector Graphics







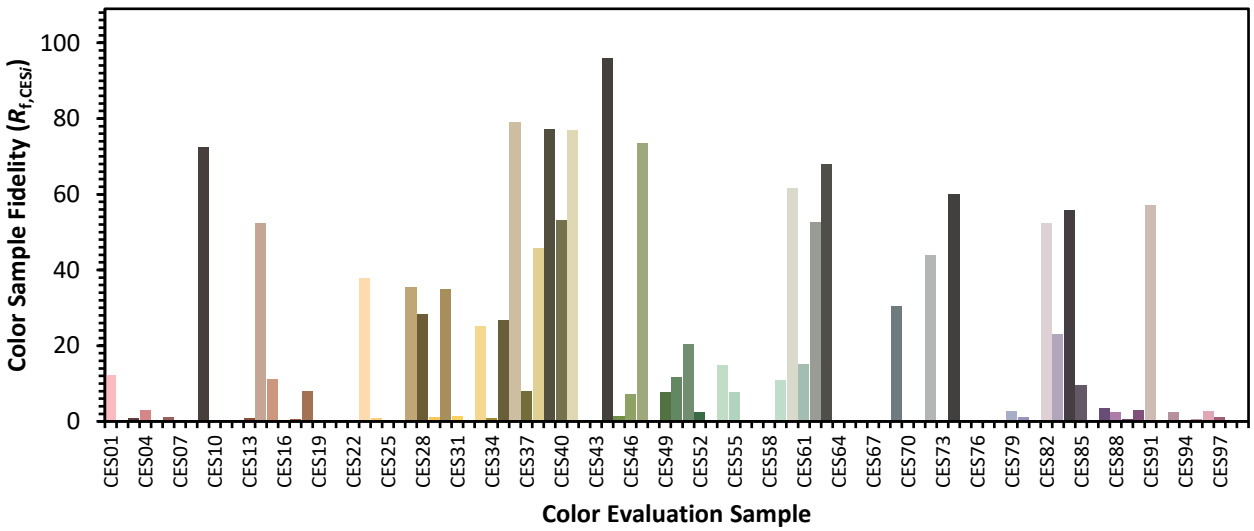


REPORT NUMBER: SP1-2501-332-6

TM-30-18

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

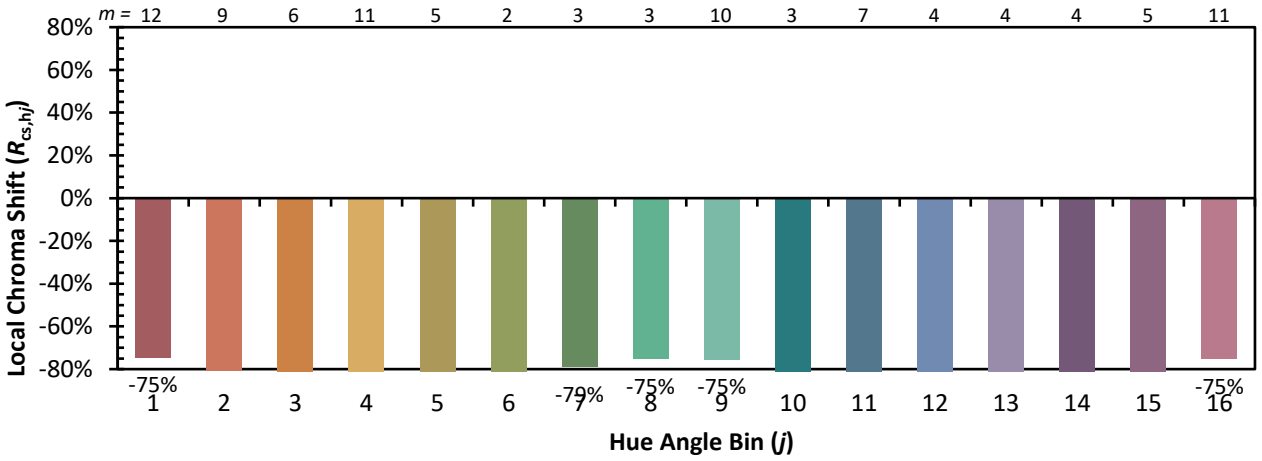
CES01 = 90	CES26 = 0	CES51 = 20	CES76 = 0
CES02 = 70	CES27 = 35	CES52 = 3	CES77 = 0
CES03 = 31	CES28 = 28	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 15	CES79 = 3
CES05 = 52	CES30 = 35	CES55 = 8	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 42	CES32 = 0	CES57 = 0	CES82 = 52
CES08 = 39	CES33 = 25	CES58 = 0	CES83 = 23
CES09 = 30	CES34 = 1	CES59 = 11	CES84 = 56
CES10 = 88	CES35 = 27	CES60 = 62	CES85 = 10
CES11 = 70	CES36 = 79	CES61 = 15	CES86 = 0
CES12 = 76	CES37 = 8	CES62 = 53	CES87 = 4
CES13 = 48	CES38 = 46	CES63 = 68	CES88 = 2
CES14 = 77	CES39 = 77	CES64 = 0	CES89 = 0
CES15 = 75	CES40 = 53	CES65 = 0	CES90 = 3
CES16 = 50	CES41 = 77	CES66 = 0	CES91 = 57
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 60	CES43 = 0	CES68 = 0	CES93 = 3
CES19 = 80	CES44 = 96	CES69 = 30	CES94 = 0
CES20 = 72	CES45 = 2	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 7	CES71 = 0	CES96 = 3
CES22 = 87	CES47 = 73	CES72 = 44	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 8	CES74 = 60	CES99 = 0
CES25 = 79	CES50 = 12	CES75 = 0	

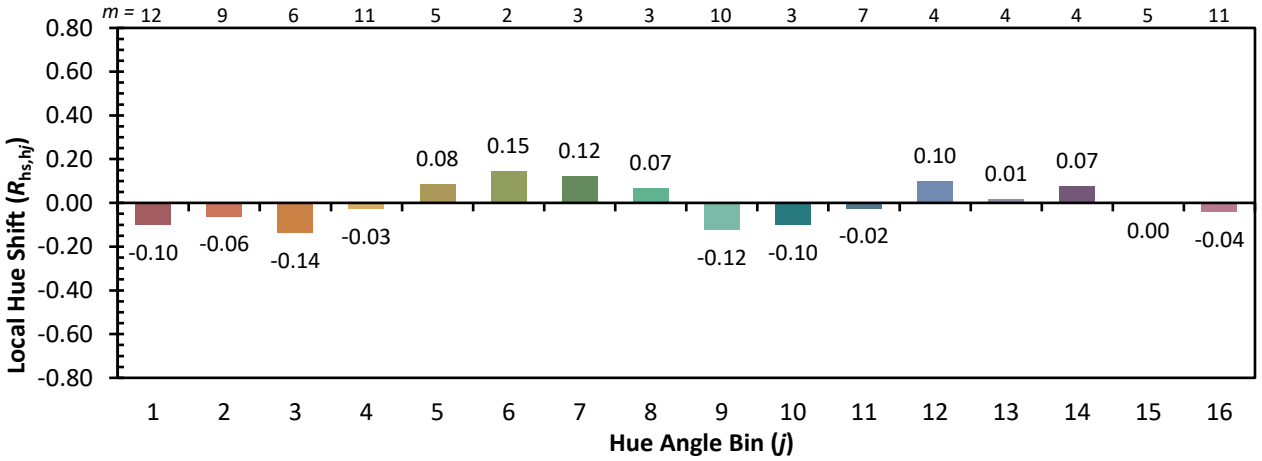


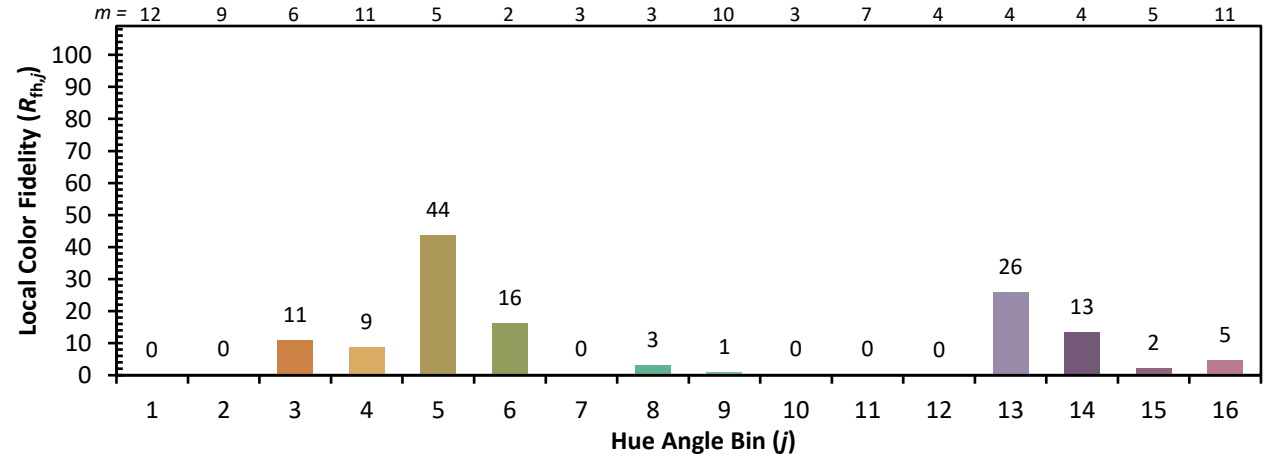
REPORT NUMBER: SP1-2501-332-6

TM-30-18

Color Rendition by Hue-Angle Bin







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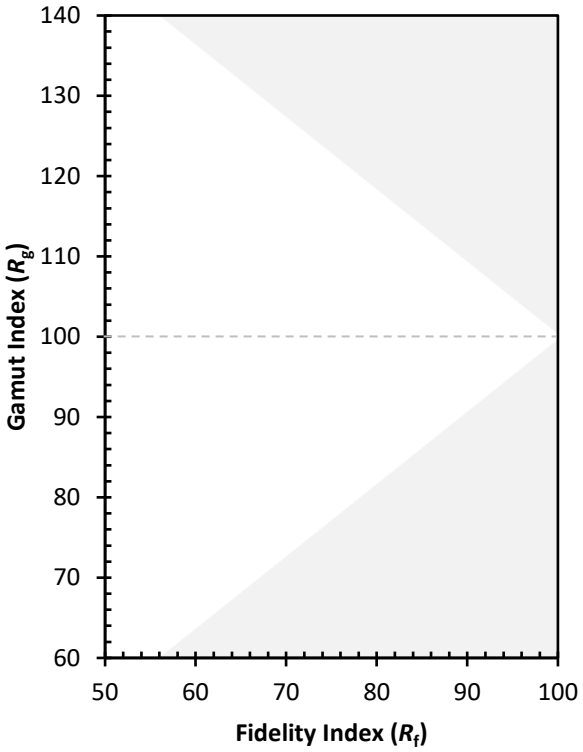
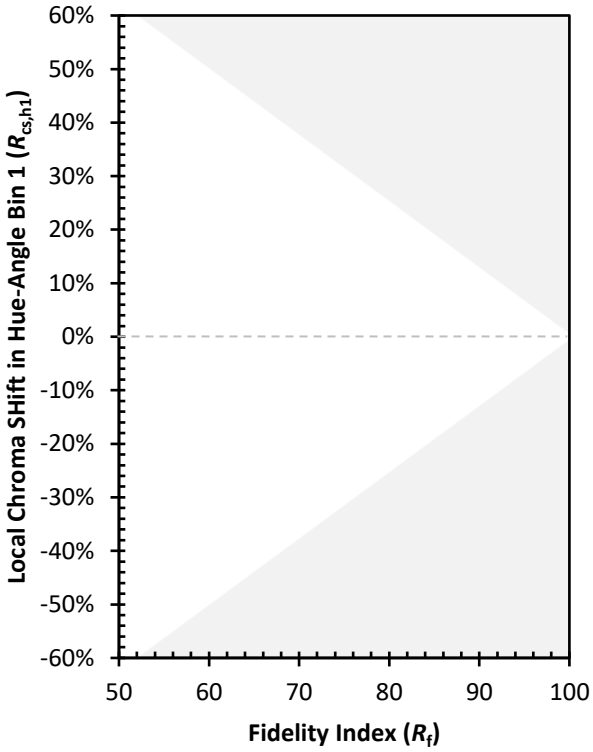
Measure Comparisons





(END OF REPORT)