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: P981423

Luminaire Tested: **FFX-CLB-20-727-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981423
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3017.7 lumens
Efficiency:	N/A
Efficacy:	152.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U3 - G2

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

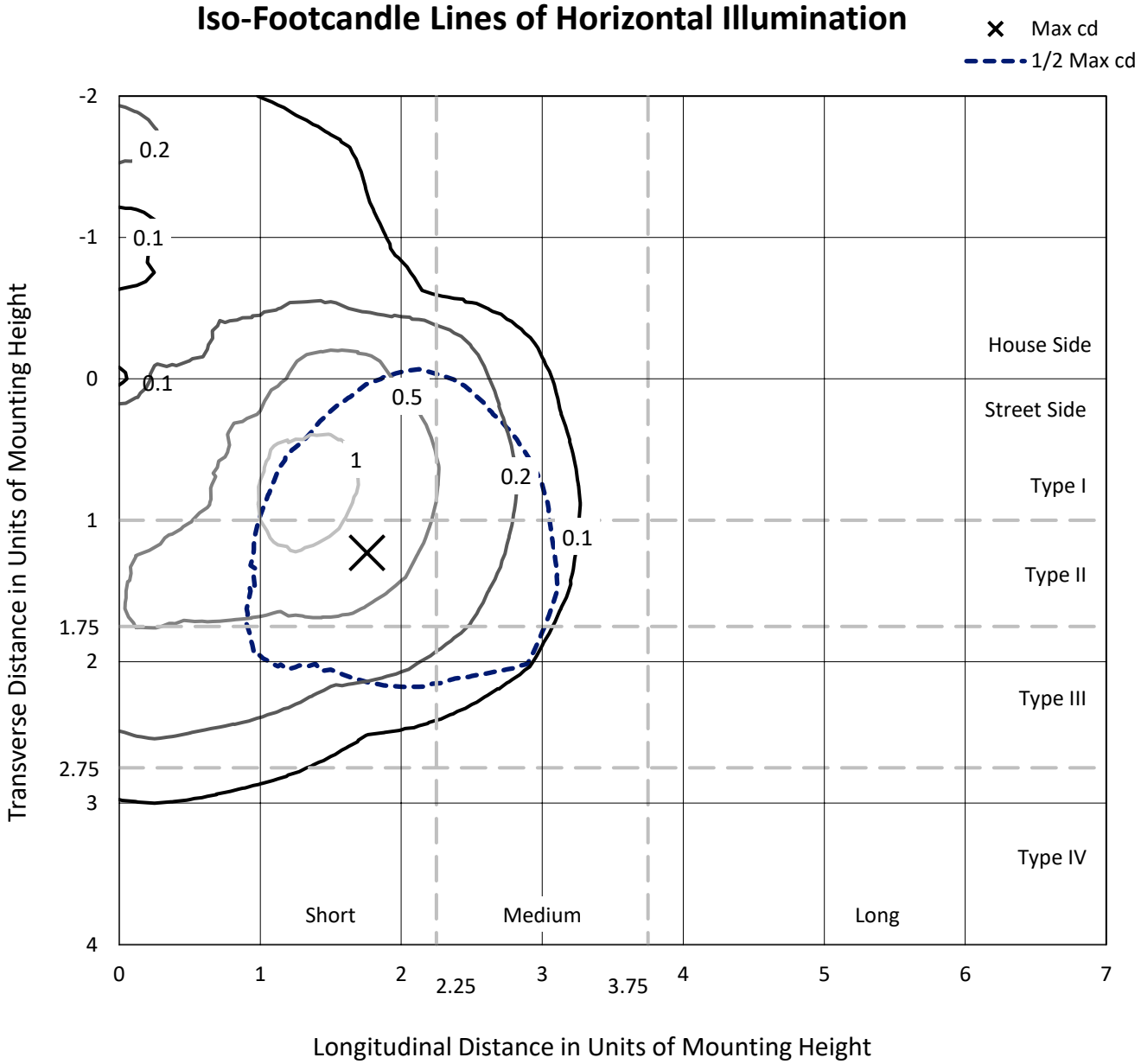


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Iso-Footcandle Lines of Horizontal Illumination



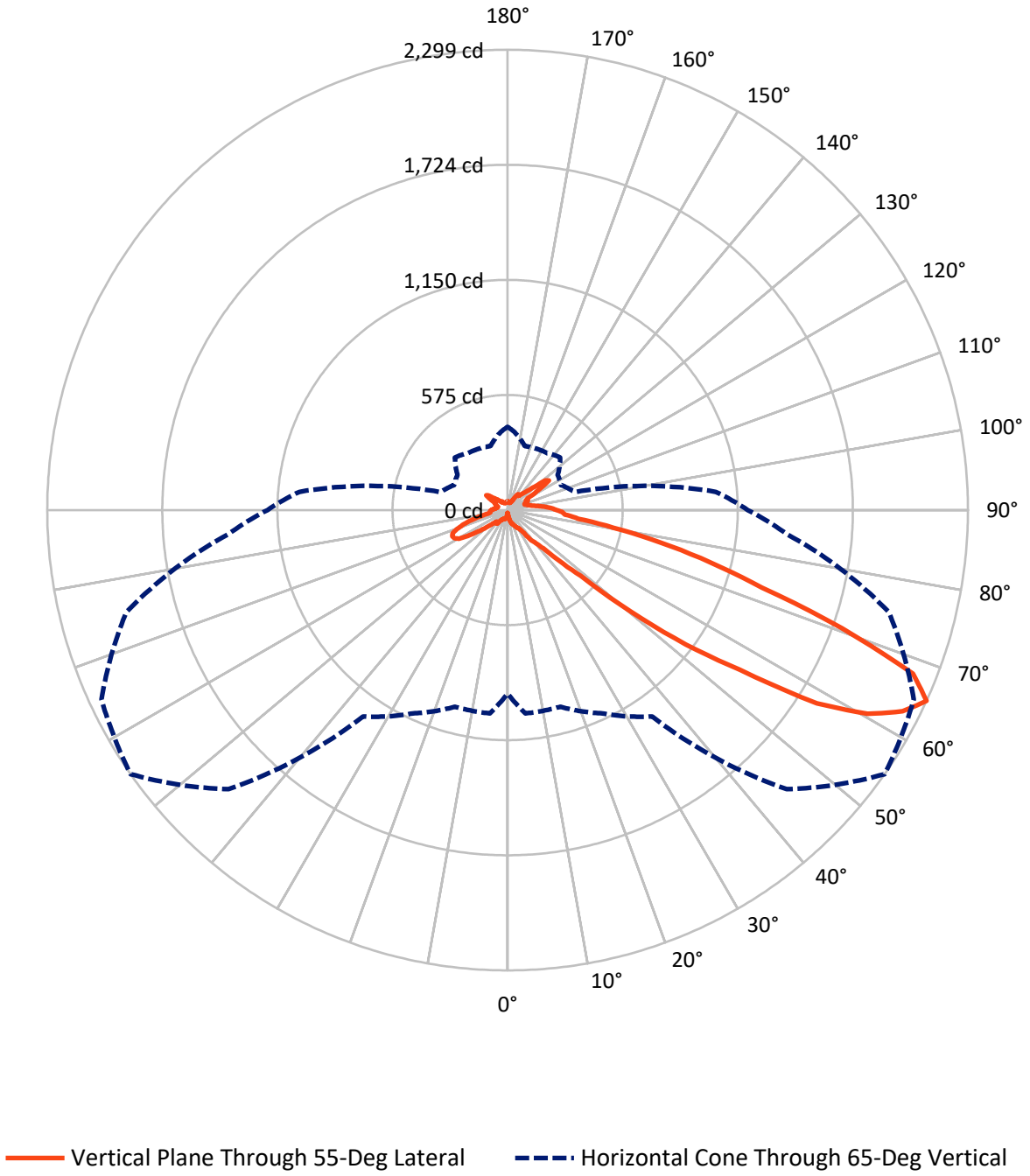
Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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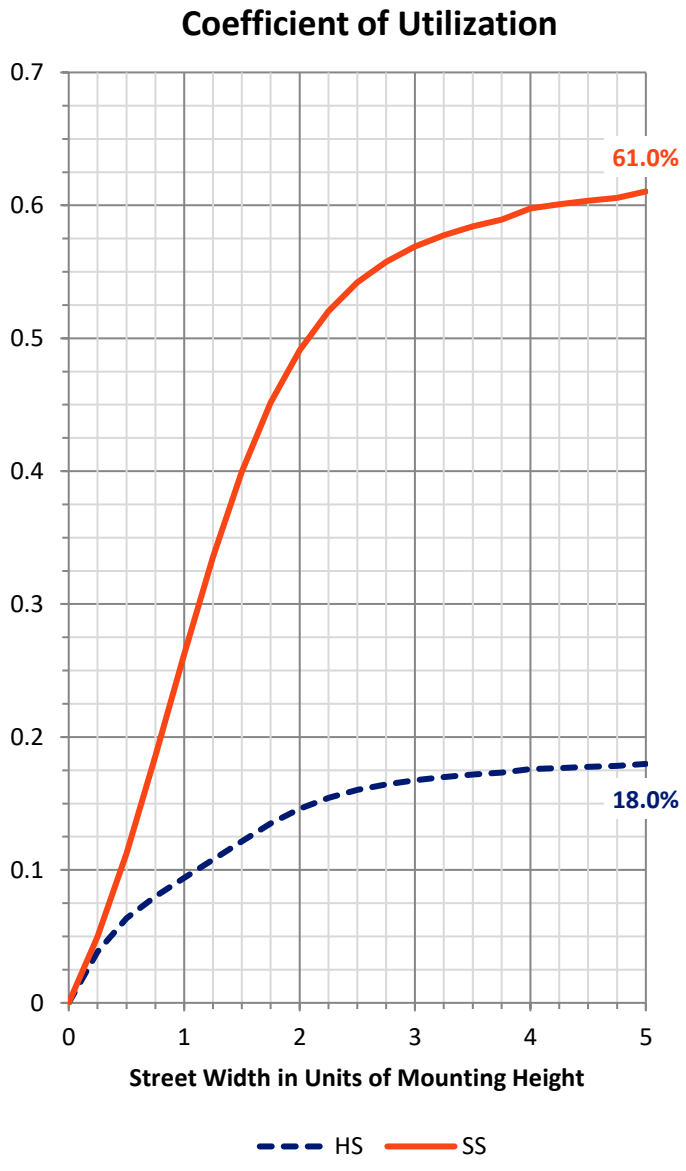
REPORT NUMBER: P981423
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	565.7	202.6	768.3
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	1901.8	347.6	2249.4
	% Fixture	63.0	11.5	74.5
Total	Lumens	2467.5	550.3	3017.7
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.1
10°-20°	15.3	0.5
20°-30°	31.5	1.0
30°-40°	66.0	2.2
40°-50°	174.2	5.8
50°-60°	579.7	19.2
60°-70°	935.2	31.0
70°-80°	490.6	16.3
80°-90°	172.1	5.7
90°-100°	111.1	3.7
100°-110°	72.1	2.4
110°-120°	79.0	2.6
120°-130°	132.9	4.4
130°-140°	77.9	2.6
140°-150°	41.7	1.4
150°-160°	20.7	0.7
160°-170°	10.9	0.4
170°-180°	3.9	0.1
0°-90°	2467.5	81.8
0°-180°	3017.7	100.0



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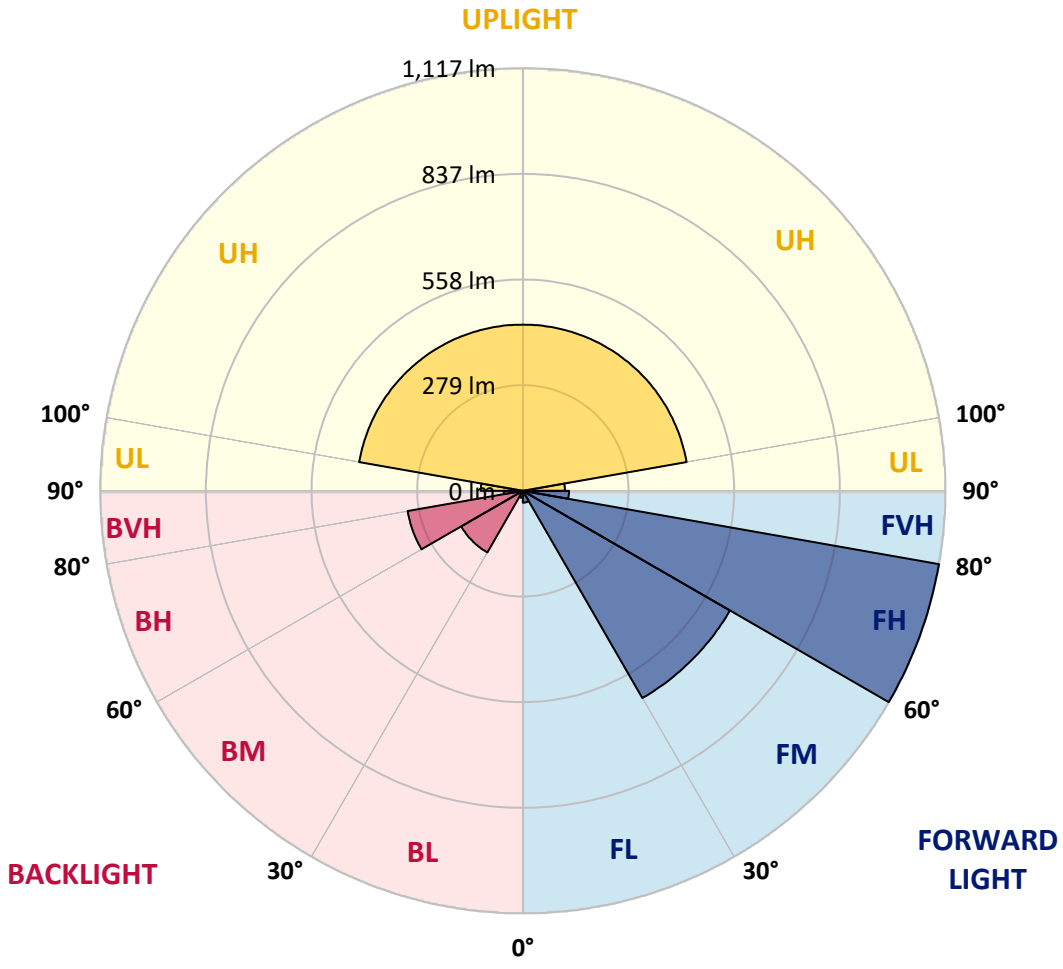
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	31.3	1.0			
FM	(30°-60°)	632.0	20.9			
FH	(60°-80°)	1116.6	37.0			G1/1800
FVH	(80°-90°)	121.9	4.0			G2/225
BL	(0°-30°)	18.3	0.6	B0/110		
BM	(30°-60°)	188.0	6.2	B0/220		
BH	(60°-80°)	309.1	10.2	B1/500		G1/500
BVH	(80°-90°)	50.3	1.7			G1/100
UL	(90°-100°)	111.1	3.7		U3/500	
UH	(100°-180°)	439.1	14.6		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2.5°	17.1	17.5	18.5	18.9	19.1	18.7	17.9	18.7	18.7	18.7	18.5
5°	24.8	24.8	24.8	25.4	25.6	26.0	25.6	24.6	23.8	23.1	22.9
7.5°	34.8	35.2	35.4	35.4	35.4	36.2	37.0	35.2	33.6	32.0	31.6
10°	49.9	48.9	47.9	48.3	47.5	45.9	46.7	45.3	41.7	40.5	40.5
12.5°	63.8	63.6	64.0	61.8	60.6	57.2	57.6	56.8	54.2	50.1	48.7
15°	71.5	72.1	71.9	72.7	70.9	66.2	65.0	65.4	63.0	59.0	57.0
17.5°	75.5	75.5	75.7	76.7	76.7	72.1	70.1	69.2	67.2	63.8	61.2
20°	77.5	77.5	77.3	78.7	81.5	78.9	76.1	74.5	72.7	67.4	63.4
22.5°	83.1	82.7	82.1	82.5	86.6	85.8	83.7	81.3	78.7	70.5	65.6
25°	88.8	89.0	87.2	87.8	92.0	93.2	91.4	89.0	86.0	73.7	68.8
27.5°	95.4	95.2	92.8	93.6	95.8	100.2	98.0	96.8	91.8	76.3	71.5
30°	101.3	100.4	98.0	100.0	100.0	106.9	104.9	105.5	99.4	81.1	75.9
32.5°	105.7	105.5	104.1	106.7	105.3	114.3	113.7	118.6	109.5	90.4	85.6
35°	115.7	115.9	121.6	126.6	124.2	137.3	140.1	146.5	135.3	113.7	108.5
37.5°	187.2	184.8	176.9	167.7	168.9	193.4	190.0	193.4	176.3	145.1	136.9
40°	197.1	197.7	188.6	181.6	180.6	211.8	217.0	244.4	208.7	173.9	157.8
42.5°	192.0	193.9	219.0	227.9	220.0	259.7	261.3	314.2	243.4	214.4	193.2
45°	243.4	243.8	249.0	254.8	255.7	354.7	360.3	418.7	309.6	270.1	234.1
47.5°	277.0	280.2	287.3	326.7	347.6	453.5	490.6	583.4	412.3	368.2	297.3
50°	391.7	400.4	435.8	469.6	502.2	672.5	797.4	908.1	619.4	539.7	432.0
52.5°	477.3	508.7	548.3	629.7	664.1	919.1	1115.4	1183.9	867.6	731.5	588.6
55°	551.6	609.3	652.0	785.3	850.7	1198.3	1407.7	1417.6	1164.3	892.8	754.7
57.5°	704.6	788.7	816.5	930.6	1021.6	1530.7	1821.6	1772.7	1467.1	1076.6	932.0
60°	848.7	945.5	935.2	1040.3	1160.7	1816.7	2066.6	2041.8	1750.9	1250.7	1087.0
62.5°	895.6	993.8	985.0	1095.5	1257.5	1950.0	2213.7	2172.6	1918.4	1359.6	1164.9
65°	916.1	1019.6	1017.2	1120.6	1258.7	1971.3	2299.3	2238.1	1971.1	1403.5	1199.1
67.5°	898.6	997.2	996.2	1091.3	1166.9	1817.1	2183.5	2093.3	1841.3	1300.2	1125.3
70°	775.4	843.9	839.8	898.2	937.7	1444.3	1771.9	1703.8	1486.0	1068.5	932.2
72.5°	632.3	652.6	661.3	694.7	705.2	1057.0	1328.8	1274.6	1108.0	800.2	706.8
75°	504.9	505.9	515.1	526.8	523.2	777.6	1046.6	1013.1	817.1	596.9	536.1
77.5°	334.2	331.7	371.8	376.6	353.7	495.4	781.5	757.9	584.8	435.0	392.1
80°	191.8	192.6	220.0	237.3	228.1	314.8	535.5	530.4	401.6	304.4	269.3
82.5°	143.1	149.8	164.5	173.7	170.1	236.7	356.3	366.0	285.4	219.0	200.1
85°	159.4	163.1	164.7	165.3	161.0	221.4	287.7	287.1	239.9	183.8	177.5
87.5°	155.2	158.4	159.8	160.6	156.2	211.6	271.8	267.9	230.1	176.7	167.3
90°	130.6	137.9	137.7	144.7	139.7	186.0	238.5	235.9	208.9	162.7	151.8
92.5°	109.5	113.7	116.4	126.0	121.6	163.7	214.4	208.5	187.0	148.0	136.3
95°	102.3	106.1	108.3	113.7	108.3	141.5	180.6	175.3	155.2	123.4	112.1
97.5°	86.2	87.4	89.4	93.0	89.4	114.7	146.3	141.1	124.6	100.7	92.8
100°	73.1	74.3	76.9	79.5	77.7	98.2	122.4	119.6	107.1	87.6	82.3
102.5°	69.2	69.9	73.3	74.9	72.7	90.2	108.1	108.1	97.0	80.9	76.5
105°	66.0	67.0	69.6	70.1	68.6	83.1	99.8	98.8	90.0	75.7	71.5
107.5°	62.8	64.0	66.2	65.2	64.4	76.5	89.6	91.2	83.7	71.9	69.2
110°	66.2	66.6	68.4	66.8	68.2	76.1	90.0	90.4	88.2	78.5	75.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.0	87.8	91.6	85.6	90.2	95.8	*104.5*	107.7	105.1	94.0	91.4
115°	98.6	100.2	104.1	98.2	101.1	107.9	*112.1*	112.7	109.7	102.5	101.5
117.5°	76.9	84.9	80.7	84.3	85.4	94.8	*104.3*	107.1	104.3	94.4	100.6
120°	98.4	104.7	90.4	86.0	92.0	108.3	*117.0*	119.4	111.9	112.1	115.9
122.5°	163.1	166.7	175.7	180.2	173.3	183.2	*186.2*	188.4	176.9	163.3	156.6
125°	247.6	245.0	243.8	242.6	240.8	251.4	*253.4*	247.8	236.3	217.4	206.9
127.5°	224.0	226.1	229.5	229.1	227.5	235.7	*240.6*	237.3	234.1	216.0	209.8
130°	161.2	162.2	168.1	178.8	177.7	184.2	*184.8*	188.2	193.5	185.6	179.2
132.5°	133.5	134.5	143.5	148.2	148.6	148.8	*146.1*	153.8	159.4	151.4	146.1
135°	116.4	116.4	118.4	116.6	117.2	122.4	*124.8*	131.7	133.1	129.4	124.0
137.5°	102.9	103.3	99.2	95.8	96.4	105.7	*111.1*	116.4	113.7	105.9	102.1
140°	89.6	87.4	81.7	80.7	85.1	94.0	*97.2*	100.9	101.7	91.8	86.8
142.5°	66.0	65.2	67.8	73.1	75.5	90.4	*88.0*	95.2	95.6	78.9	70.7
145°	73.7	73.5	73.3	74.3	79.9	101.5	*95.8*	104.9	109.3	83.9	68.6
147.5°	83.3	83.1	81.3	79.1	87.4	92.8	*87.6*	95.6	100.4	83.3	66.4
150°	64.4	64.8	63.8	63.2	72.3	71.3	*70.1*	72.3	74.3	69.0	60.4
152.5°	50.1	49.3	48.7	48.9	56.4	55.2	*55.2*	56.8	57.0	55.0	50.7
155°	45.1	44.9	44.5	45.3	49.9	48.7	*47.7*	47.3	46.3	45.7	45.1
157.5°	42.3	41.9	41.9	43.1	46.3	44.3	*43.9*	43.5	42.9	42.9	43.1
160°	39.5	39.3	39.3	41.1	42.1	40.3	*39.9*	39.7	39.5	39.9	40.3
162.5°	38.0	38.0	38.0	39.1	39.1	38.0	*37.6*	37.4	37.6	38.9	39.1
165°	37.4	37.2	37.4	38.0	37.8	37.0	*36.8*	36.8	37.4	38.6	38.7
167.5°	38.4	38.4	38.4	38.6	38.4	37.6	*37.4*	37.4	38.0	38.9	38.9
170°	39.9	39.7	39.7	39.7	39.5	38.7	*38.4*	38.6	38.7	39.3	39.3
172.5°	41.3	41.3	41.1	40.9	40.5	40.1	*39.7*	39.7	39.7	39.9	39.9
175°	42.9	42.9	42.9	42.7	42.7	42.1	*41.9*	41.7	41.5	41.3	41.1
177.5°	44.7	44.5	44.5	44.5	44.5	43.9	*43.5*	43.3	42.9	42.7	42.7
180°	43.9	43.9	43.9	43.9	43.9	43.9	*43.9*	43.9	43.9	43.9	43.9

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2.5°	18.5	17.9	16.9	15.1	14.5	13.9	13.3	12.1	11.5	11.1
5°	22.7	21.9	21.7	20.7	19.3	18.1	17.9	17.5	17.3	16.7
7.5°	32.4	32.8	33.8	32.0	28.0	25.8	26.4	28.6	27.8	27.6
10°	40.7	43.3	45.3	40.7	33.6	29.0	29.2	33.6	34.0	34.8
12.5°	47.7	49.9	49.5	43.7	37.0	32.6	31.2	33.6	35.8	36.0
15°	55.2	51.5	50.1	45.3	40.5	37.2	36.6	37.2	37.2	36.8
17.5°	58.4	51.9	47.9	43.9	40.5	38.2	37.4	36.4	35.0	35.0
20°	59.2	53.5	48.9	44.7	41.3	38.7	36.6	35.4	35.0	35.0
22.5°	61.6	56.4	51.7	46.7	43.1	39.7	37.2	36.0	36.0	36.2
25°	65.0	60.2	54.2	49.1	45.3	41.7	38.4	36.6	36.4	36.6
27.5°	69.2	64.2	57.6	52.1	47.7	43.7	39.5	37.4	36.6	36.6
30°	73.9	68.2	60.8	54.6	49.9	46.3	41.1	38.2	37.2	36.8
32.5°	82.5	75.9	64.8	58.0	52.7	48.7	43.5	39.7	37.8	37.4
35°	103.5	93.4	78.9	66.6	58.4	51.5	45.3	40.7	38.2	37.8
37.5°	126.4	111.1	97.4	83.7	71.7	60.4	48.7	42.3	39.1	38.6
40°	140.7	120.6	108.5	88.0	86.4	77.1	59.8	46.7	41.1	40.3
42.5°	170.1	140.1	120.8	77.7	84.5	86.4	75.5	58.6	46.5	45.1
45°	204.9	164.7	135.5	83.1	87.0	84.7	77.3	68.0	58.0	55.2
47.5°	265.5	188.0	140.7	96.4	99.6	93.0	82.1	72.3	65.0	64.0
50°	383.1	256.3	158.4	118.4	128.0	109.7	95.6	88.0	78.1	76.9
52.5°	534.5	308.6	177.9	153.2	174.9	152.2	129.4	114.1	111.9	112.7
55°	698.7	324.7	203.5	189.4	227.3	206.1	179.8	165.1	179.6	184.2
57.5°	861.4	348.9	240.6	236.3	284.6	252.2	231.5	237.9	298.3	312.8
60°	989.6	369.6	272.0	281.4	341.2	306.0	297.3	306.6	410.3	448.9
62.5°	1039.9	360.3	288.3	300.5	367.8	343.8	340.8	349.7	437.2	475.1
65°	*1043.7*	*346.0*	*294.7*	*305.6*	*372.0*	*346.4*	*338.2*	*330.7*	*391.5*	*415.5*
67.5°	965.8	317.3	286.9	298.3	353.5	319.5	302.6	285.6	316.8	330.1
70°	778.6	281.4	262.7	269.3	297.3	265.9	242.8	231.1	242.2	241.2
72.5°	589.8	247.8	236.1	229.5	242.8	217.4	192.0	180.6	190.6	188.0
75°	450.5	221.2	210.2	188.4	201.3	166.9	138.9	131.2	135.9	134.1
77.5°	325.1	177.3	162.7	138.7	155.4	121.4	93.2	87.6	88.8	85.1
80°	234.1	132.1	118.0	100.9	114.3	86.8	69.2	68.0	68.6	64.6
82.5°	183.8	105.9	96.6	87.4	91.6	78.5	66.6	65.4	66.0	61.6
85°	171.3	103.7	94.0	88.0	89.4	77.3	64.6	64.2	65.2	60.4
87.5°	161.6	102.7	95.0	86.4	83.1	70.9	59.8	61.6	64.4	59.4
90°	142.5	95.8	89.0	81.3	77.7	66.6	59.8	62.4	62.2	58.6
92.5°	125.6	85.4	80.1	75.7	74.9	67.8	62.6	65.0	65.8	62.2
95°	102.9	72.1	69.6	68.2	69.4	62.4	58.0	59.2	58.4	56.4
97.5°	87.6	65.8	64.0	62.0	60.8	55.8	52.1	53.7	54.4	52.7
100°	79.3	62.6	61.2	59.0	58.8	55.4	53.5	56.6	59.0	58.0
102.5°	74.1	59.4	57.6	55.6	55.0	52.3	50.7	52.7	54.8	52.9
105°	70.3	56.4	53.7	51.9	50.9	48.9	46.9	47.7	50.1	49.1
107.5°	66.8	56.2	51.9	50.5	50.5	47.9	45.1	45.3	46.5	46.3
110°	72.3	62.4	54.4	52.5	51.9	51.1	49.1	47.1	45.5	45.5

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

Scaled Data Report

REPORT NUMBER: P981423
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	86.6	76.5	68.4	62.0	59.4	56.4	52.3	49.3	47.1	46.5
115°	93.0	82.1	74.3	67.4	61.4	55.6	52.1	49.9	48.7	49.9
117.5°	87.6	72.5	71.5	64.4	58.8	54.2	53.3	49.7	51.7	51.7
120°	98.6	84.3	82.1	71.7	64.0	58.2	57.6	57.0	54.8	53.9
122.5°	144.1	125.4	116.4	101.1	87.8	75.9	69.2	59.8	53.3	51.9
125°	195.7	171.1	149.6	129.4	109.3	88.0	70.1	56.2	49.5	48.5
127.5°	196.3	171.3	147.6	123.0	101.1	78.9	63.0	53.3	48.5	48.3
130°	172.7	150.8	124.8	100.4	82.7	68.0	56.4	48.5	45.1	44.1
132.5°	137.5	118.0	101.3	86.2	72.7	60.2	49.9	44.3	42.3	42.1
135°	115.7	98.8	87.0	75.9	65.4	54.2	44.7	41.9	40.9	40.5
137.5°	94.4	84.3	77.1	68.2	58.0	48.9	42.5	41.3	40.9	40.1
140°	81.9	75.1	67.4	57.4	49.7	42.1	38.7	39.7	40.7	40.5
142.5°	66.8	61.8	56.0	49.5	44.1	40.7	39.3	39.9	39.9	40.1
145°	63.4	56.8	53.7	49.7	46.1	43.5	40.1	38.9	38.7	38.7
147.5°	58.8	56.2	54.2	51.5	46.1	41.3	37.6	37.0	37.8	37.6
150°	55.0	53.3	50.9	46.5	41.1	38.0	36.0	36.2	37.6	37.8
152.5°	46.7	45.7	44.1	41.3	37.6	36.0	35.0	35.8	36.8	37.0
155°	41.5	40.9	40.5	38.7	36.4	35.4	35.0	35.6	36.6	36.8
157.5°	41.1	39.7	39.1	38.0	36.2	35.2	35.2	35.8	36.4	36.6
160°	39.9	38.2	38.0	36.8	36.4	35.8	36.2	36.4	37.0	36.8
162.5°	38.9	37.8	37.6	36.8	37.2	37.8	37.8	38.0	38.4	38.2
165°	38.6	37.6	37.4	37.4	38.6	39.5	39.7	39.5	39.5	39.5
167.5°	38.9	38.4	38.2	38.6	39.5	40.7	40.9	40.5	40.1	39.9
170°	39.5	39.3	39.5	39.7	40.3	41.1	41.1	40.7	40.7	40.7
172.5°	40.1	40.5	40.7	40.7	41.3	41.7	41.9	41.7	41.7	41.7
175°	41.3	41.5	41.5	41.7	42.3	42.7	43.1	43.1	43.1	43.1
177.5°	42.7	42.7	42.7	42.9	43.1	43.7	43.9	44.3	44.5	44.5
180°	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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

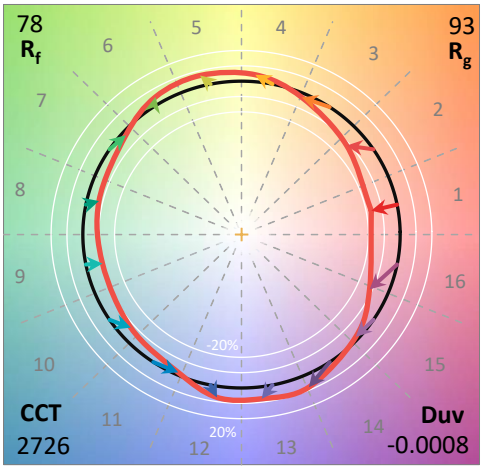
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

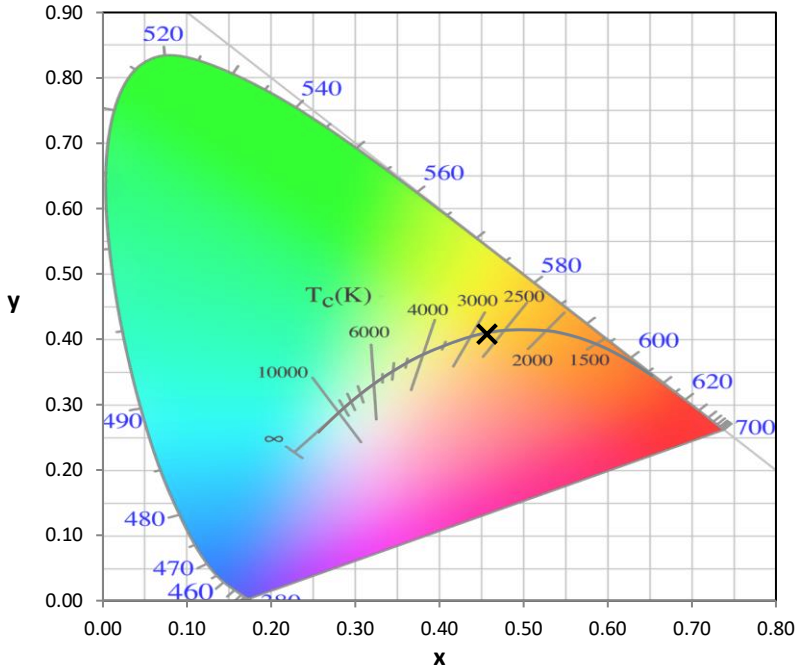
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

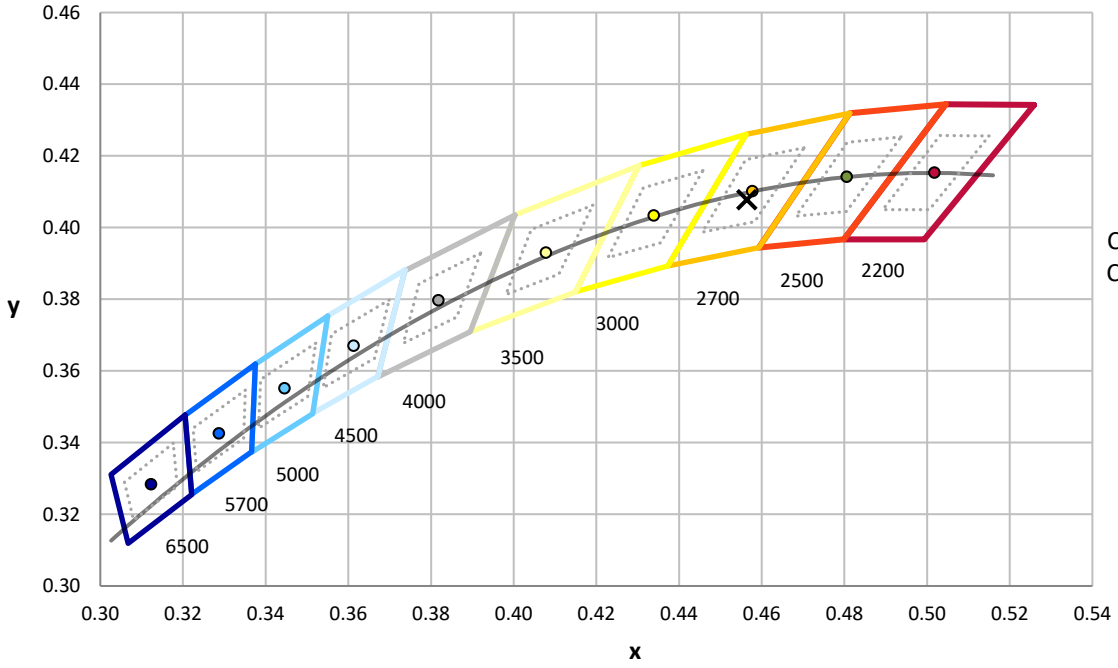
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

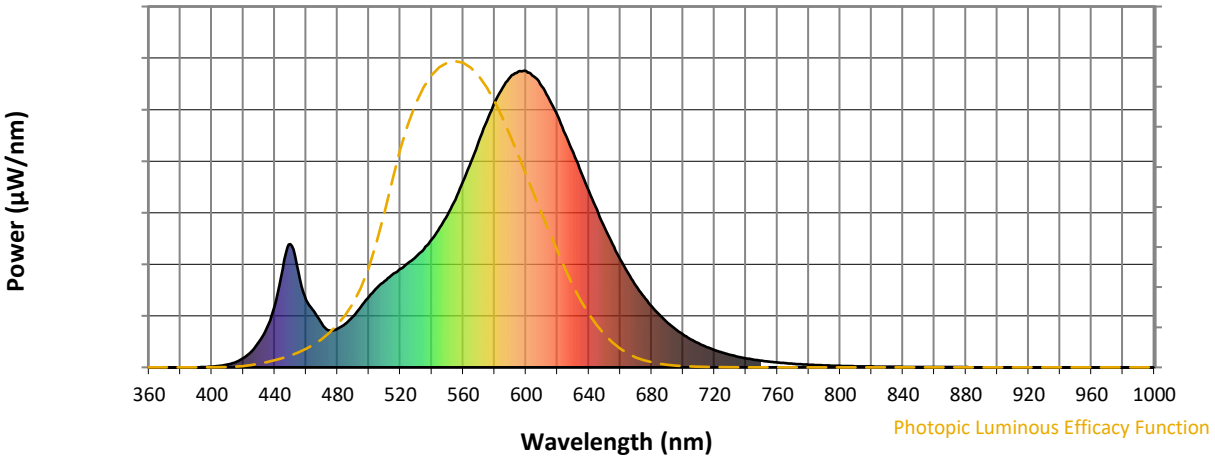


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

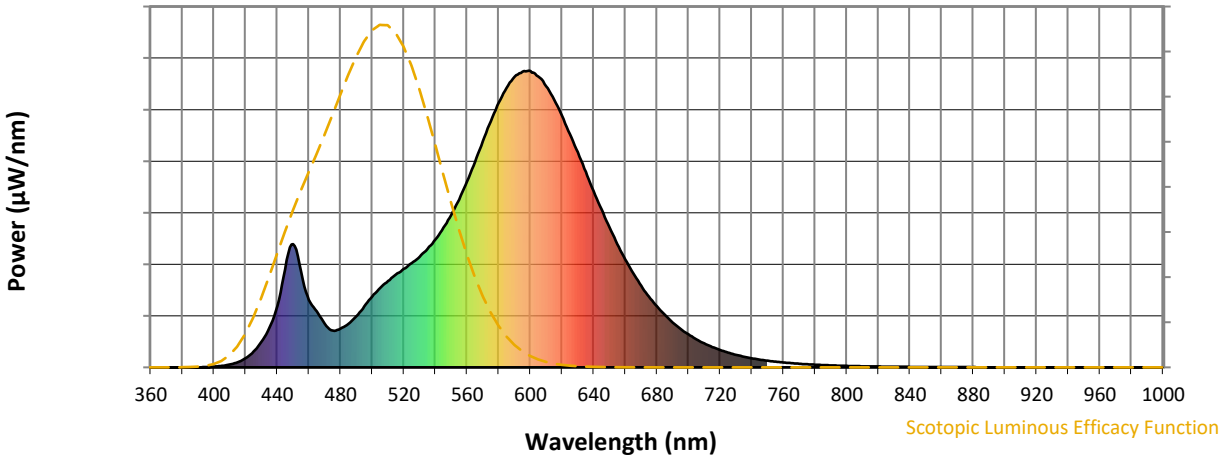


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

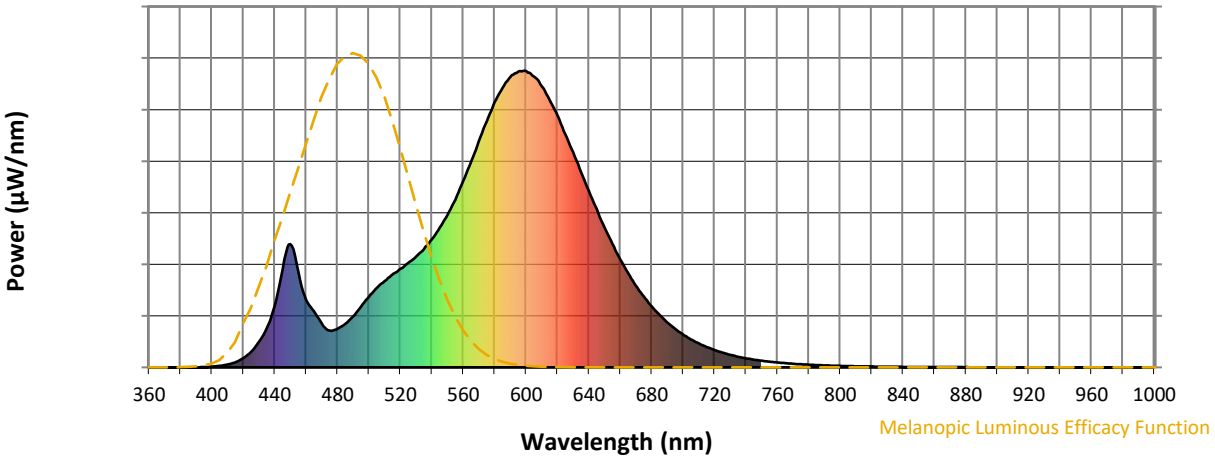


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

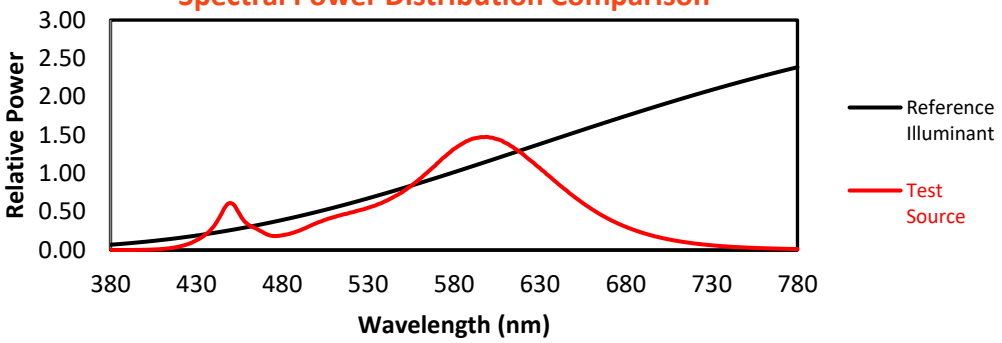
REPORT NUMBER: SP1-2501-332-3

TM-30-18

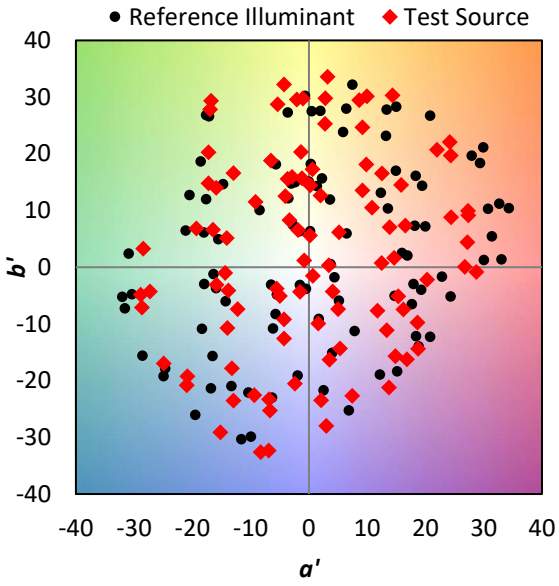
Summary

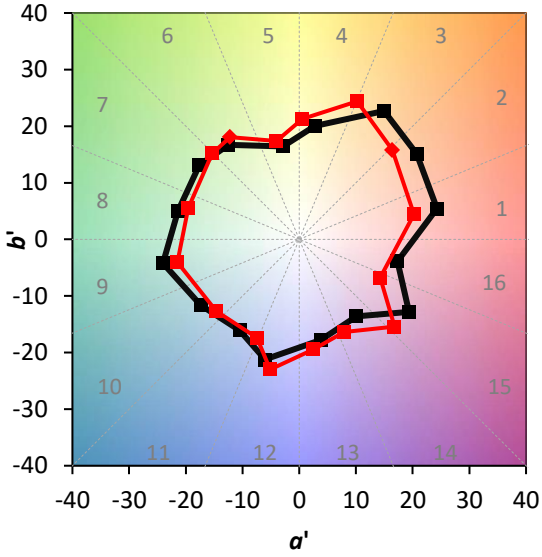
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

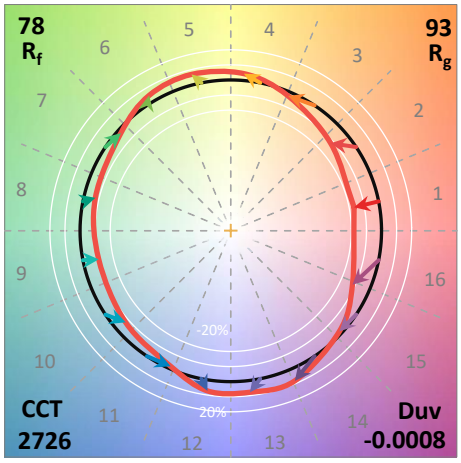
Spectral Power Distribution Comparison

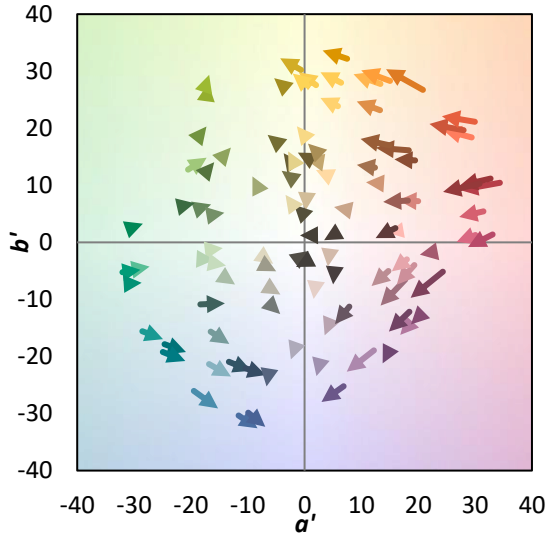


Color Vector Graphics







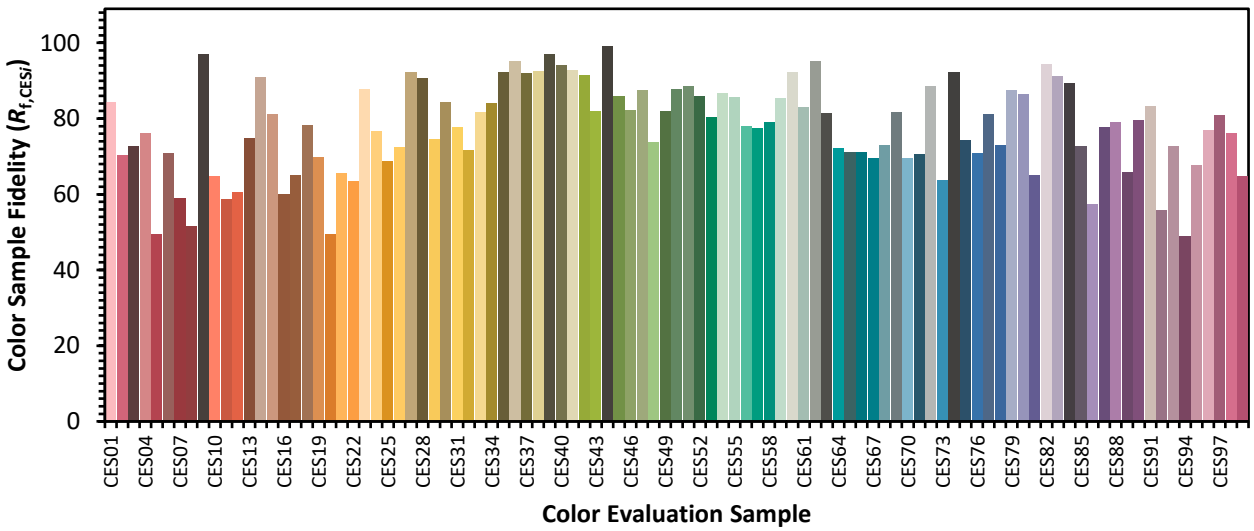


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

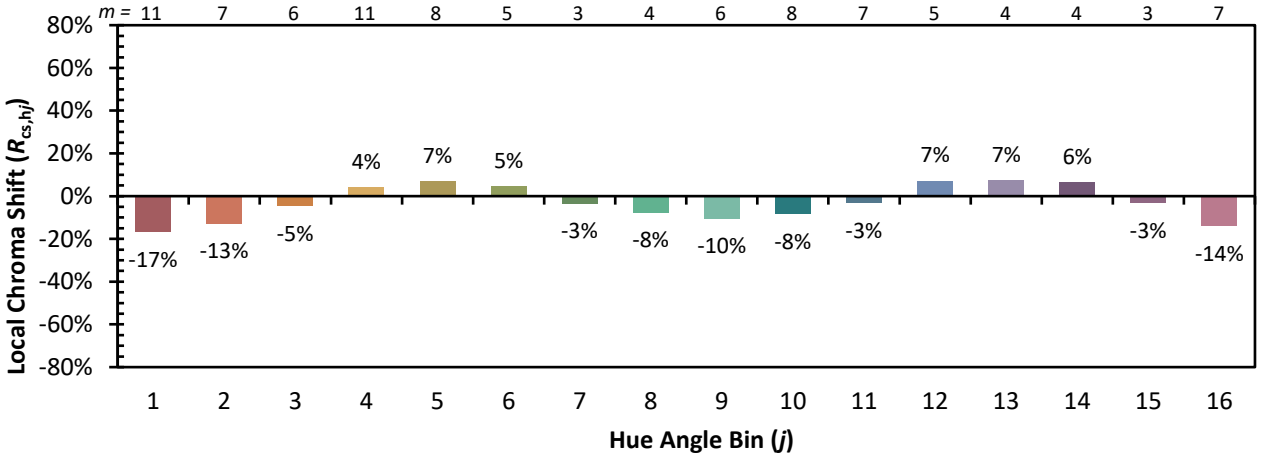
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

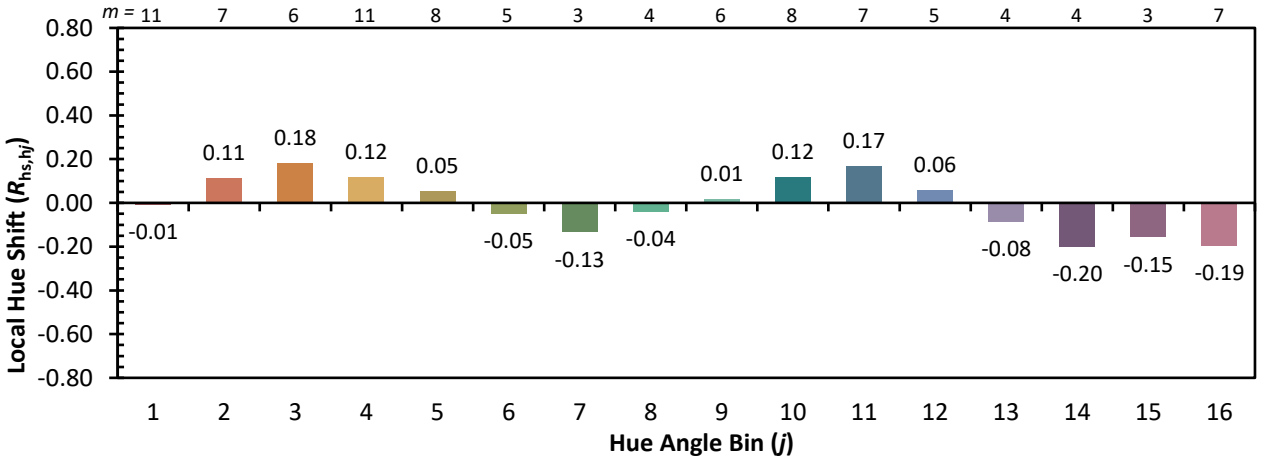


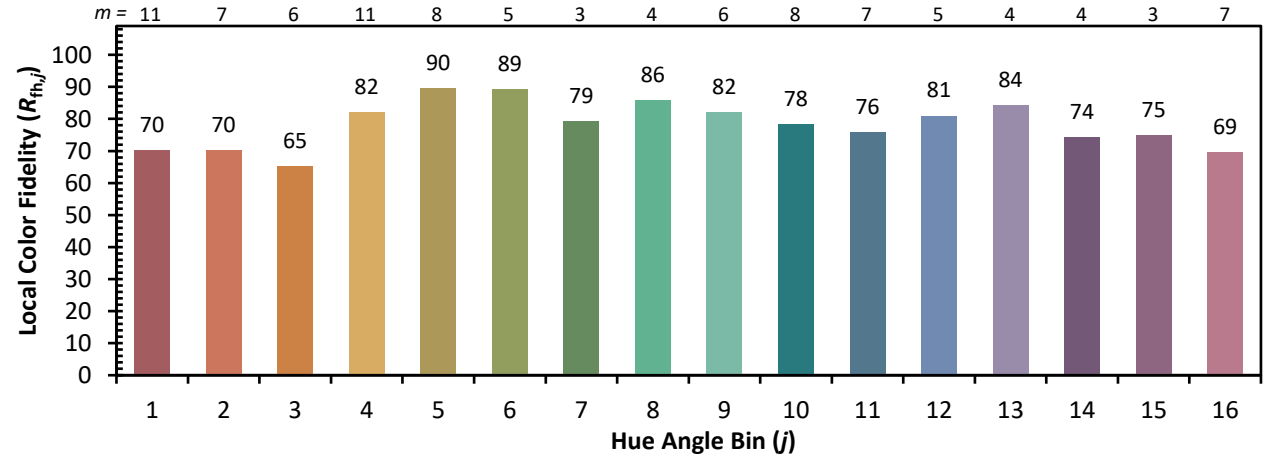
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



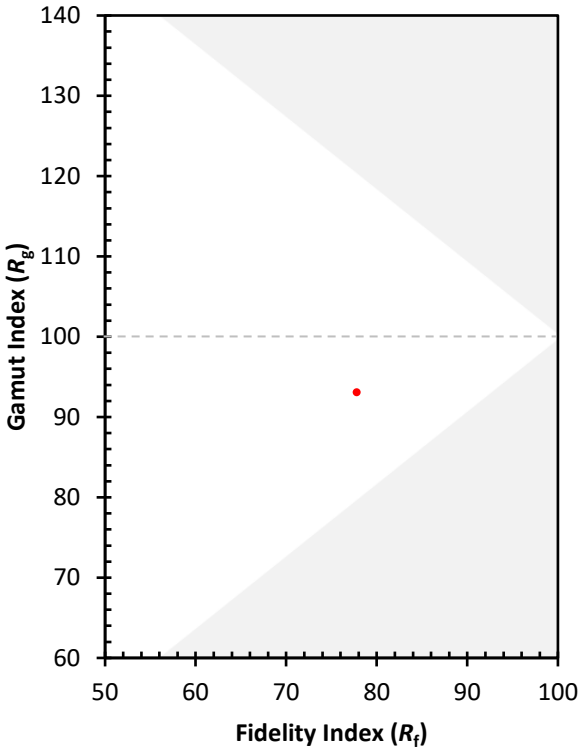


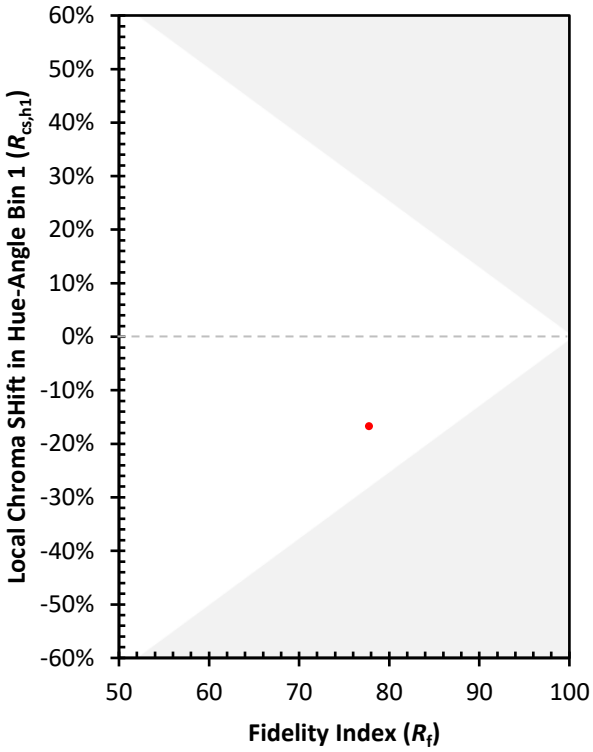


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TM-30-18

Measure Comparisons





(END OF REPORT)