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: P981441

Luminaire Tested: **FFX-CLB-20-740-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

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:	P981441
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-740-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3353 lumens
Efficiency:	N/A
Efficacy:	169.3 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

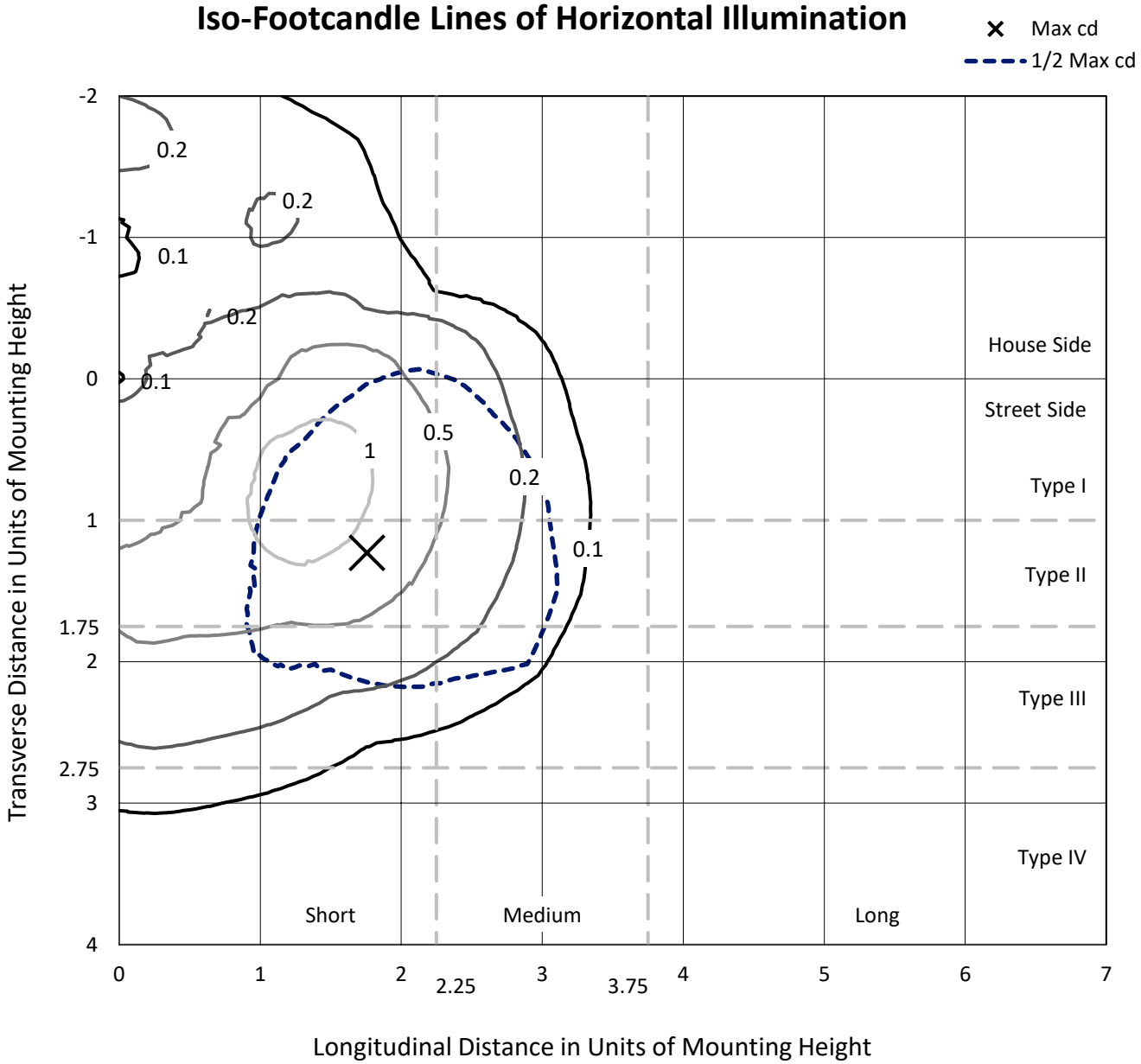


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Iso-Footcandle Lines of Horizontal Illumination



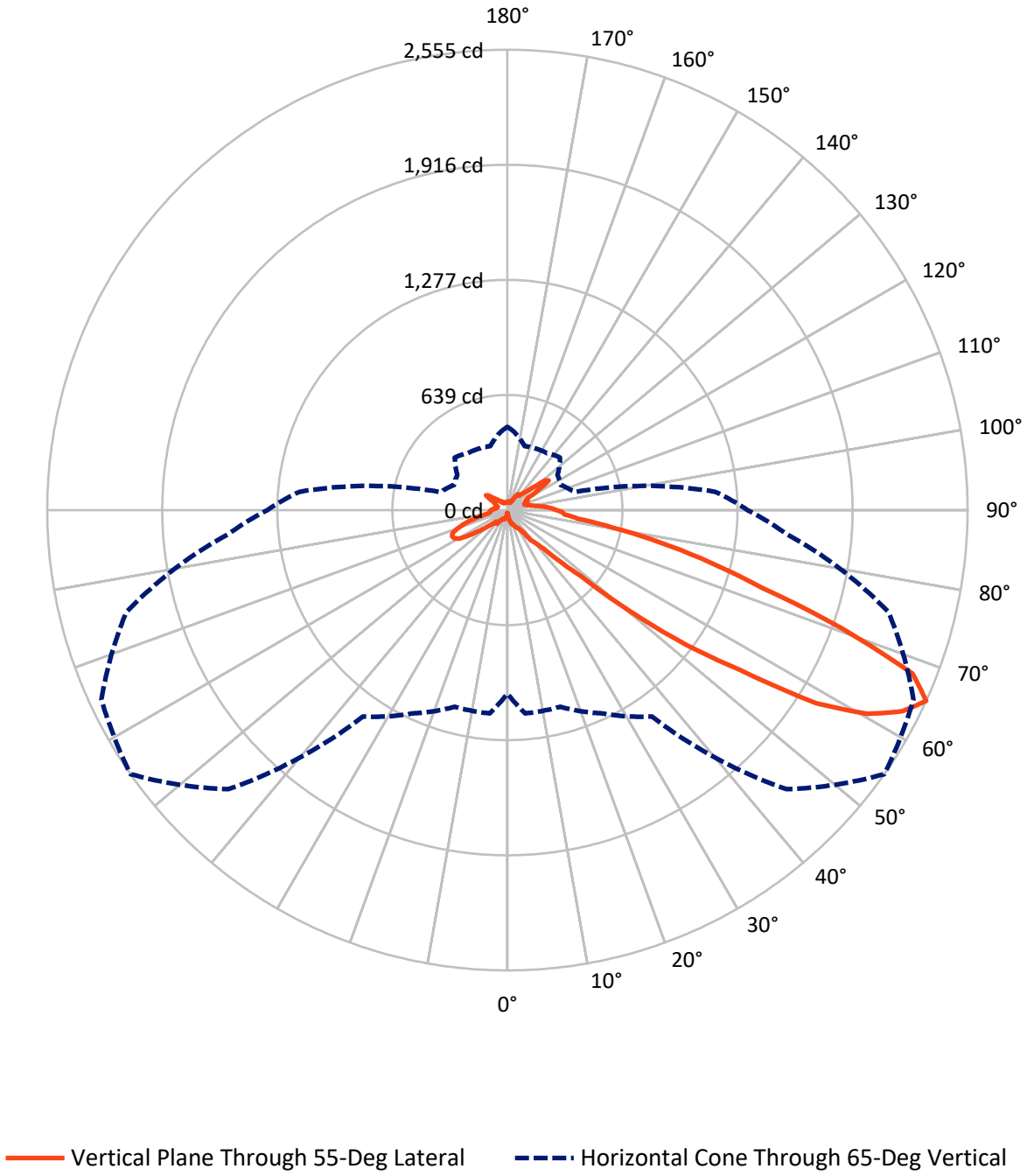
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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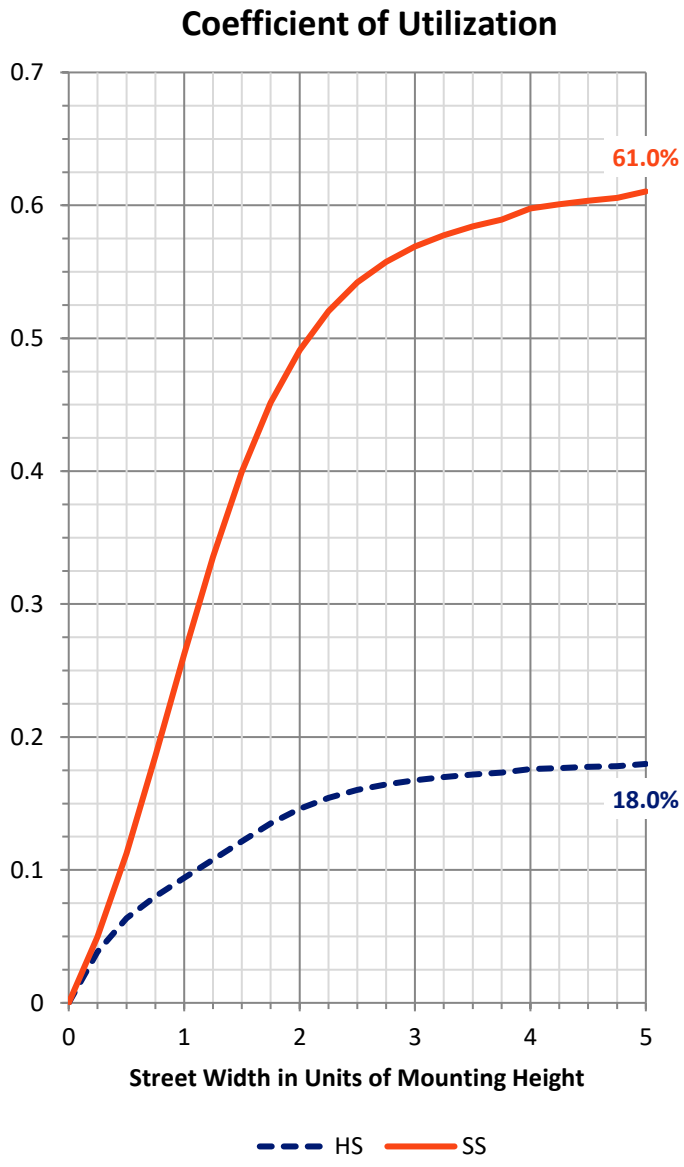
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.5	225.2	853.7
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	2113.1	386.3	2499.4
	% Fixture	63.0	11.5	74.5
Total	Lumens	2741.6	611.4	3353.0
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	17.0	0.5
20°-30°	35.0	1.0
30°-40°	73.3	2.2
40°-50°	193.6	5.8
50°-60°	644.2	19.2
60°-70°	1039.1	31.0
70°-80°	545.1	16.3
80°-90°	191.3	5.7
90°-100°	123.5	3.7
100°-110°	80.1	2.4
110°-120°	87.8	2.6
120°-130°	147.7	4.4
130°-140°	86.5	2.6
140°-150°	46.3	1.4
150°-160°	23.0	0.7
160°-170°	12.1	0.4
170°-180°	4.4	0.1
0°-90°	2741.6	81.8
0°-180°	3353.0	100.0



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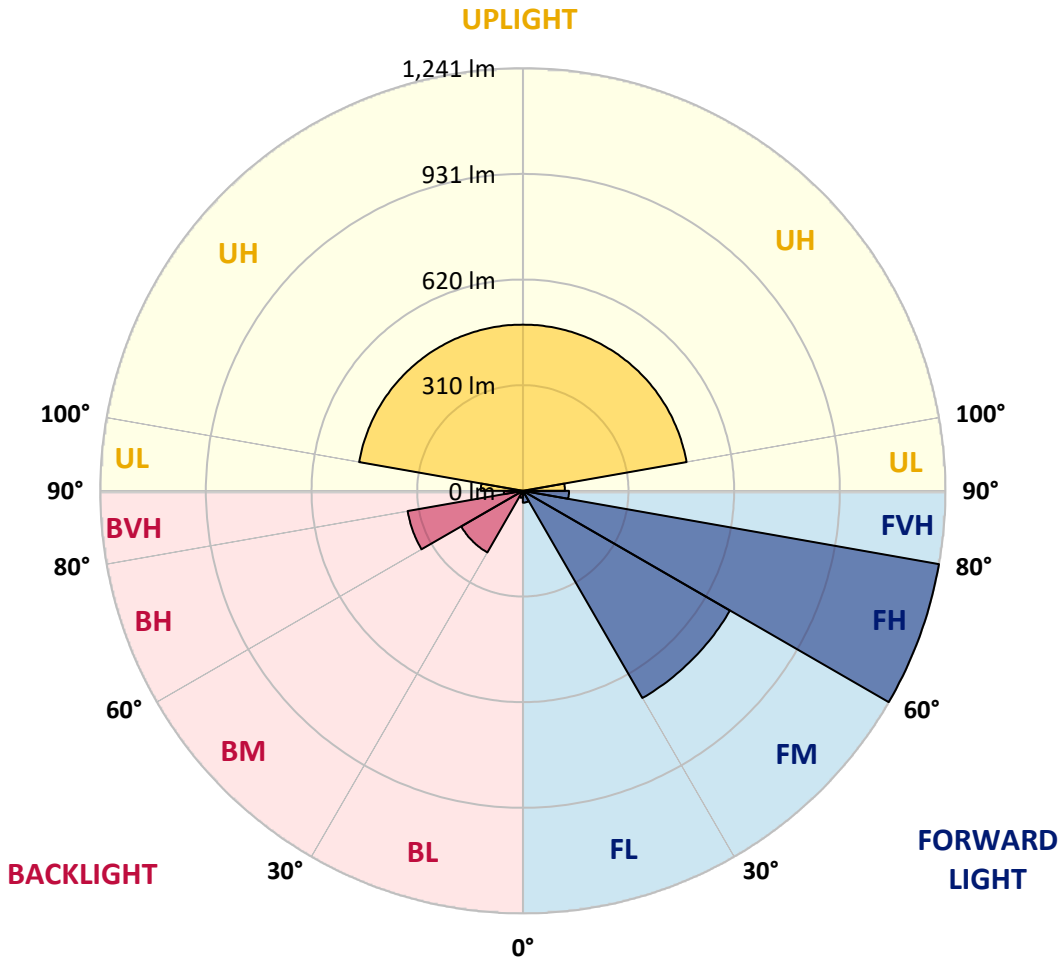
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	34.8	1.0			
FM	(30°-60°)	702.2	20.9			
FH	(60°-80°)	1240.7	37.0			G1/1800
FVH	(80°-90°)	135.4	4.0			G2/225
BL	(0°-30°)	20.4	0.6	B0/110		
BM	(30°-60°)	208.8	6.2	B0/220		
BH	(60°-80°)	343.4	10.2	B1/500		G1/500
BVH	(80°-90°)	55.8	1.7			G1/100
UL	(90°-100°)	123.5	3.7		U3/500	
UH	(100°-180°)	488.0	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°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	19.0	19.4	20.5	21.0	21.2	20.8	19.9	20.8	20.8	20.8	20.5
5°	27.6	27.6	27.6	28.3	28.5	28.9	28.5	27.4	26.5	25.6	25.4
7.5°	38.6	39.1	39.3	39.3	39.3	40.2	41.1	39.1	37.3	35.5	35.1
10°	55.4	54.3	53.2	53.7	52.8	51.0	51.9	50.3	46.4	45.0	45.0
12.5°	70.9	70.7	71.1	68.7	67.3	63.6	64.0	63.1	60.3	55.6	54.1
15°	79.5	80.1	79.9	80.8	78.8	73.5	72.2	72.6	70.0	65.6	63.4
17.5°	83.9	83.9	84.1	85.2	85.2	80.1	77.9	76.8	74.6	70.9	68.0
20°	86.1	86.1	85.9	87.4	90.5	87.7	84.6	82.8	80.8	74.8	70.4
22.5°	92.3	91.9	91.2	91.6	96.3	95.4	93.0	90.3	87.4	78.4	72.9
25°	98.7	98.9	96.9	97.6	102.2	103.6	101.6	98.9	95.6	81.9	76.4
27.5°	106.0	105.8	103.1	104.0	106.4	111.3	108.9	107.5	102.0	84.8	79.5
30°	112.6	111.5	108.9	111.1	111.1	118.8	116.6	117.2	110.4	90.1	84.3
32.5°	117.5	117.2	115.7	118.6	117.0	127.0	126.3	131.8	121.7	100.5	95.2
35°	128.5	128.7	135.1	140.6	138.0	152.6	155.7	162.7	150.4	126.3	120.6
37.5°	208.0	205.3	196.5	186.4	187.7	214.8	211.1	214.8	195.8	161.2	152.1
40°	219.0	219.7	209.5	201.8	200.7	235.4	241.1	271.6	231.8	193.2	175.3
42.5°	213.3	215.5	243.3	253.3	244.4	288.6	290.3	349.1	270.5	238.2	214.6
45°	270.5	270.9	276.7	283.1	284.2	394.1	400.3	465.2	344.0	300.1	260.1
47.5°	307.8	311.3	319.3	363.0	386.2	503.9	545.1	648.3	458.2	409.1	330.3
50°	435.2	444.9	484.2	521.7	558.0	747.2	886.1	1009.0	688.2	599.7	480.0
52.5°	530.4	565.2	609.2	699.7	737.9	1021.2	1239.3	1315.5	964.0	812.7	654.0
55°	612.9	677.0	724.4	872.6	945.2	1331.4	1564.1	1575.2	1293.6	992.0	838.6
57.5°	782.9	876.3	907.2	1034.0	1135.1	1700.8	2024.0	1969.7	1630.1	1196.3	1035.5
60°	943.0	1050.5	1039.1	1155.9	1289.7	2018.5	2296.3	2268.7	1945.4	1389.7	1207.8
62.5°	995.1	1104.2	1094.5	1217.2	1397.2	2166.7	2459.7	2414.0	2131.6	1510.7	1294.3
65°	1017.9	1132.9	1130.3	1245.1	1398.5	2190.3	2554.8	2486.8	2190.1	1559.5	1332.3
67.5°	998.4	1108.0	1106.8	1212.6	1296.5	2019.0	2426.1	2325.9	2045.9	1444.7	1250.4
70°	861.5	937.7	933.1	998.0	1041.9	1604.7	1968.8	1893.1	1651.1	1187.2	1035.8
72.5°	702.6	725.1	734.8	771.9	783.6	1174.4	1476.5	1416.2	1231.2	889.1	785.4
75°	561.0	562.1	572.3	585.3	581.4	864.0	1162.9	1125.6	907.9	663.3	595.7
77.5°	371.4	368.5	413.1	418.4	393.0	550.4	868.4	842.1	649.8	483.3	435.6
80°	213.1	214.0	244.4	263.6	253.5	349.7	595.0	589.3	446.2	338.3	299.2
82.5°	159.0	166.5	182.8	193.0	189.0	263.0	395.9	406.7	317.1	243.3	222.3
85°	177.1	181.3	183.0	183.7	178.8	246.0	319.7	319.0	266.5	204.2	197.2
87.5°	172.4	176.0	177.5	178.4	173.5	235.1	302.0	297.6	255.7	196.3	185.9
90°	145.1	153.2	153.0	160.7	155.2	206.7	265.0	262.1	232.1	180.8	168.7
92.5°	121.7	126.3	129.4	140.0	135.1	181.9	238.2	231.6	207.8	164.5	151.5
95°	113.7	117.9	120.3	126.3	120.3	157.2	200.7	194.7	172.4	137.1	124.5
97.5°	95.8	97.2	99.4	103.3	99.4	127.4	162.5	156.8	138.4	111.9	103.1
100°	81.3	82.6	85.4	88.3	86.3	109.1	136.0	132.9	119.0	97.4	91.4
102.5°	76.8	77.7	81.5	83.2	80.8	100.2	120.1	120.1	107.7	89.9	85.0
105°	73.3	74.4	77.3	77.9	76.2	92.3	110.8	109.7	100.0	84.1	79.5
107.5°	69.8	71.1	73.5	72.4	71.5	85.0	99.6	101.3	93.0	79.9	76.8
110°	73.5	74.0	76.0	74.2	75.7	84.6	100.0	100.5	98.0	87.2	83.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	100.0	97.6	101.8	95.2	100.2	106.4	*116.1*	119.7	116.8	104.4	101.6
115°	109.5	111.3	115.7	109.1	112.4	119.9	*124.5*	125.2	121.9	113.9	112.8
117.5°	85.4	94.3	89.6	93.6	94.9	105.3	*115.9*	119.0	115.9	104.9	111.7
120°	109.3	116.4	100.5	95.6	102.2	120.3	*130.0*	132.7	124.3	124.5	128.7
122.5°	181.3	185.2	195.2	200.3	192.5	203.6	*206.9*	209.3	196.5	181.5	174.0
125°	275.1	272.2	270.9	269.6	267.6	279.3	*281.5*	275.3	262.5	241.6	229.8
127.5°	248.8	251.3	255.0	254.6	252.8	261.9	*267.4*	263.6	260.1	240.0	233.2
130°	179.1	180.2	186.8	198.7	197.4	204.7	*205.3*	209.1	215.1	206.2	199.2
132.5°	148.4	149.5	159.4	164.7	165.2	165.4	*162.3*	170.9	177.1	168.2	162.3
135°	129.4	129.4	131.6	129.6	130.3	136.0	*138.7*	146.4	147.9	143.7	137.8
137.5°	114.4	114.8	110.2	106.4	107.1	117.5	*123.4*	129.4	126.3	117.7	113.5
140°	99.6	97.2	90.7	89.6	94.5	104.4	*108.0*	112.2	113.0	102.0	96.5
142.5°	73.3	72.4	75.3	81.3	83.9	100.5	*97.8*	105.8	106.2	87.7	78.6
145°	81.9	81.7	81.5	82.6	88.8	112.8	*106.4*	116.6	121.4	93.2	76.2
147.5°	92.5	92.3	90.3	87.9	97.2	103.1	*97.4*	106.2	111.5	92.5	73.7
150°	71.5	72.0	70.9	70.2	80.4	79.3	*77.9*	80.4	82.6	76.6	67.1
152.5°	55.6	54.8	54.1	54.3	62.7	61.4	*61.4*	63.1	63.4	61.2	56.3
155°	50.1	49.9	49.5	50.3	55.4	54.1	*53.0*	52.5	51.4	50.8	50.1
157.5°	47.0	46.6	46.6	47.9	51.4	49.2	*48.8*	48.4	47.7	47.7	47.9
160°	43.9	43.7	43.7	45.7	46.8	44.8	*44.4*	44.2	43.9	44.4	44.8
162.5°	42.2	42.2	42.2	43.5	43.5	42.2	*41.7*	41.5	41.7	43.3	43.5
165°	41.5	41.3	41.5	42.2	42.0	41.1	*40.8*	40.8	41.5	42.8	43.1
167.5°	42.6	42.6	42.6	42.8	42.6	41.7	*41.5*	41.5	42.2	43.3	43.3
170°	44.4	44.2	44.2	44.2	43.9	43.1	*42.6*	42.8	43.1	43.7	43.7
172.5°	45.9	45.9	45.7	45.5	45.0	44.6	*44.2*	44.2	44.2	44.4	44.4
175°	47.7	47.7	47.7	47.5	47.5	46.8	*46.6*	46.4	46.1	45.9	45.7
177.5°	49.7	49.5	49.5	49.5	49.5	48.8	*48.4*	48.1	47.7	47.5	47.5
180°	48.8	48.8	48.8	48.8	48.8	48.8	*48.8*	48.8	48.8	48.8	48.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	20.5	19.9	18.8	16.8	16.1	15.5	14.8	13.5	12.8	12.4
5°	25.2	24.3	24.1	23.0	21.4	20.1	19.9	19.4	19.2	18.5
7.5°	36.0	36.4	37.5	35.5	31.1	28.7	29.4	31.8	30.9	30.7
10°	45.3	48.1	50.3	45.3	37.3	32.2	32.5	37.3	37.8	38.6
12.5°	53.0	55.4	55.0	48.6	41.1	36.2	34.7	37.3	39.7	40.0
15°	61.4	57.2	55.6	50.3	45.0	41.3	40.6	41.3	41.3	40.8
17.5°	64.9	57.6	53.2	48.8	45.0	42.4	41.5	40.4	38.9	38.9
20°	65.8	59.4	54.3	49.7	45.9	43.1	40.6	39.3	38.9	38.9
22.5°	68.4	62.7	57.4	51.9	47.9	44.2	41.3	40.0	40.0	40.2
25°	72.2	66.9	60.3	54.5	50.3	46.4	42.6	40.6	40.4	40.6
27.5°	76.8	71.3	64.0	57.8	53.0	48.6	43.9	41.5	40.6	40.6
30°	82.1	75.7	67.6	60.7	55.4	51.4	45.7	42.4	41.3	40.8
32.5°	91.6	84.3	72.0	64.5	58.5	54.1	48.4	44.2	42.0	41.5
35°	115.0	103.8	87.7	74.0	64.9	57.2	50.3	45.3	42.4	42.0
37.5°	140.4	123.4	108.2	93.0	79.7	67.1	54.1	47.0	43.5	42.8
40°	156.3	134.0	120.6	97.8	96.0	85.7	66.5	51.9	45.7	44.8
42.5°	189.0	155.7	134.2	86.3	93.8	96.0	83.9	65.1	51.7	50.1
45°	227.6	183.0	150.6	92.3	96.7	94.1	85.9	75.5	64.5	61.4
47.5°	295.0	208.9	156.3	107.1	110.6	103.3	91.2	80.4	72.2	71.1
50°	425.7	284.8	176.0	131.6	142.2	121.9	106.2	97.8	86.8	85.4
52.5°	593.9	342.9	197.6	170.2	194.3	169.1	143.7	126.7	124.3	125.2
55°	776.3	360.8	226.1	210.4	252.6	229.0	199.8	183.5	199.6	204.7
57.5°	957.1	387.7	267.4	262.5	316.2	280.2	257.2	264.3	331.4	347.5
60°	1099.6	410.7	302.3	312.6	379.1	340.0	330.3	340.7	455.9	498.8
62.5°	1155.4	400.3	320.4	333.8	408.7	382.0	378.7	388.6	485.8	527.9
65°	*1159.6*	*384.4*	*327.4*	*339.6*	*413.3*	*384.8*	*375.8*	*367.4*	*435.0*	*461.7*
67.5°	1073.1	352.6	318.8	331.4	392.8	355.0	336.3	317.3	351.9	366.7
70°	865.1	312.6	291.9	299.2	330.3	295.4	269.8	256.8	269.1	268.0
72.5°	655.3	275.3	262.3	255.0	269.8	241.6	213.3	200.7	211.7	208.9
75°	500.5	245.7	233.6	209.3	223.7	185.5	154.3	145.7	151.0	149.0
77.5°	361.2	196.9	180.8	154.1	172.7	134.9	103.6	97.4	98.7	94.5
80°	260.1	146.8	131.2	112.2	127.0	96.5	76.8	75.5	76.2	71.8
82.5°	204.2	117.7	107.3	97.2	101.8	87.2	74.0	72.6	73.3	68.4
85°	190.3	115.3	104.4	97.8	99.4	85.9	71.8	71.3	72.4	67.1
87.5°	179.5	114.2	105.5	96.0	92.3	78.8	66.5	68.4	71.5	66.0
90°	158.3	106.4	98.9	90.3	86.3	74.0	66.5	69.3	69.1	65.1
92.5°	139.5	94.9	89.0	84.1	83.2	75.3	69.6	72.2	73.1	69.1
95°	114.4	80.1	77.3	75.7	77.1	69.3	64.5	65.8	64.9	62.7
97.5°	97.4	73.1	71.1	68.9	67.6	62.0	57.8	59.6	60.5	58.5
100°	88.1	69.6	68.0	65.6	65.4	61.6	59.4	62.9	65.6	64.5
102.5°	82.4	66.0	64.0	61.8	61.2	58.1	56.3	58.5	60.9	58.7
105°	78.2	62.7	59.6	57.6	56.5	54.3	52.1	53.0	55.6	54.5
107.5°	74.2	62.5	57.6	56.1	56.1	53.2	50.1	50.3	51.7	51.4
110°	80.4	69.3	60.5	58.3	57.6	56.7	54.5	52.3	50.6	50.6

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

Scaled Data Report

REPORT NUMBER: P981441
CATALOG NUMBER: FFX-CLB-20-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	96.3	85.0	76.0	68.9	66.0	62.7	58.1	54.8	52.3	51.7
115°	103.3	91.2	82.6	74.8	68.2	61.8	57.8	55.4	54.1	55.4
117.5°	97.4	80.6	79.5	71.5	65.4	60.3	59.2	55.2	57.4	57.4
120°	109.5	93.6	91.2	79.7	71.1	64.7	64.0	63.4	60.9	59.8
122.5°	160.1	139.3	129.4	112.4	97.6	84.3	76.8	66.5	59.2	57.6
125°	217.5	190.1	166.3	143.7	121.4	97.8	77.9	62.5	55.0	53.9
127.5°	218.1	190.3	164.1	136.7	112.4	87.7	70.0	59.2	53.9	53.7
130°	191.9	167.6	138.7	111.5	91.9	75.5	62.7	53.9	50.1	49.0
132.5°	152.8	131.2	112.6	95.8	80.8	66.9	55.4	49.2	47.0	46.8
135°	128.5	109.7	96.7	84.3	72.6	60.3	49.7	46.6	45.5	45.0
137.5°	104.9	93.6	85.7	75.7	64.5	54.3	47.3	45.9	45.5	44.6
140°	91.0	83.5	74.8	63.8	55.2	46.8	43.1	44.2	45.3	45.0
142.5°	74.2	68.7	62.3	55.0	49.0	45.3	43.7	44.4	44.4	44.6
145°	70.4	63.1	59.6	55.2	51.2	48.4	44.6	43.3	43.1	43.1
147.5°	65.4	62.5	60.3	57.2	51.2	45.9	41.7	41.1	42.0	41.7
150°	61.2	59.2	56.5	51.7	45.7	42.2	40.0	40.2	41.7	42.0
152.5°	51.9	50.8	49.0	45.9	41.7	40.0	38.9	39.7	40.8	41.1
155°	46.1	45.5	45.0	43.1	40.4	39.3	38.9	39.5	40.6	40.8
157.5°	45.7	44.2	43.5	42.2	40.2	39.1	39.1	39.7	40.4	40.6
160°	44.4	42.4	42.2	40.8	40.4	39.7	40.2	40.4	41.1	40.8
162.5°	43.3	42.0	41.7	40.8	41.3	42.0	42.0	42.2	42.6	42.4
165°	42.8	41.7	41.5	41.5	42.8	43.9	44.2	43.9	43.9	43.9
167.5°	43.3	42.6	42.4	42.8	43.9	45.3	45.5	45.0	44.6	44.4
170°	43.9	43.7	43.9	44.2	44.8	45.7	45.7	45.3	45.3	45.3
172.5°	44.6	45.0	45.3	45.3	45.9	46.4	46.6	46.4	46.4	46.4
175°	45.9	46.1	46.1	46.4	47.0	47.5	47.9	47.9	47.9	47.9
177.5°	47.5	47.5	47.5	47.7	47.9	48.6	48.8	49.2	49.5	49.5
180°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8

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: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

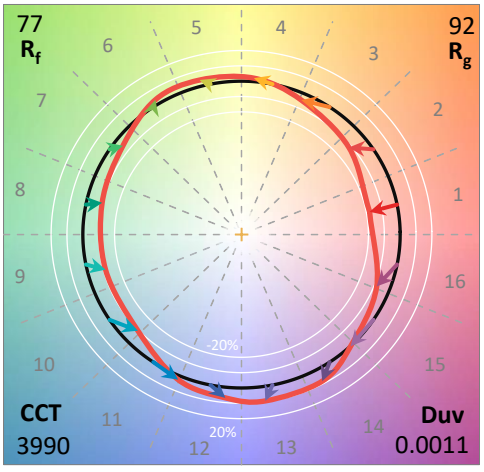
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3990	CRI (Ra):	73.9		
CIE u':	0.2247	R1:	69.6	R9:	-36.4
CIE v':	0.5031	R2:	83.0	R10:	60.9
Duv:	0.0011	R3:	93.1	R11:	66.8
CIE x:	0.3816	R4:	70.6	R12:	52.5
CIE y:	0.3798	R5:	70.6	R13:	72.5
CIE z:	0.2386	R6:	76.4	R14:	96.4
Peak Wavelength (nm):	450	R7:	79.8	R15:	61.3
Dominant Wavelength (nm):	578	R8:	48.1		
Purity:	28.50862				

Rf:	77.5
Rg:	91.9



Test Conditions

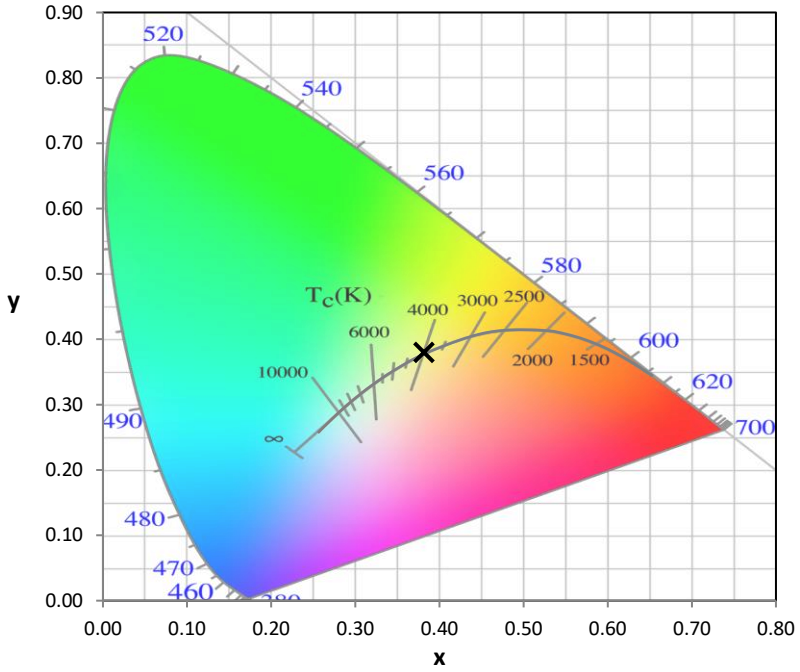
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

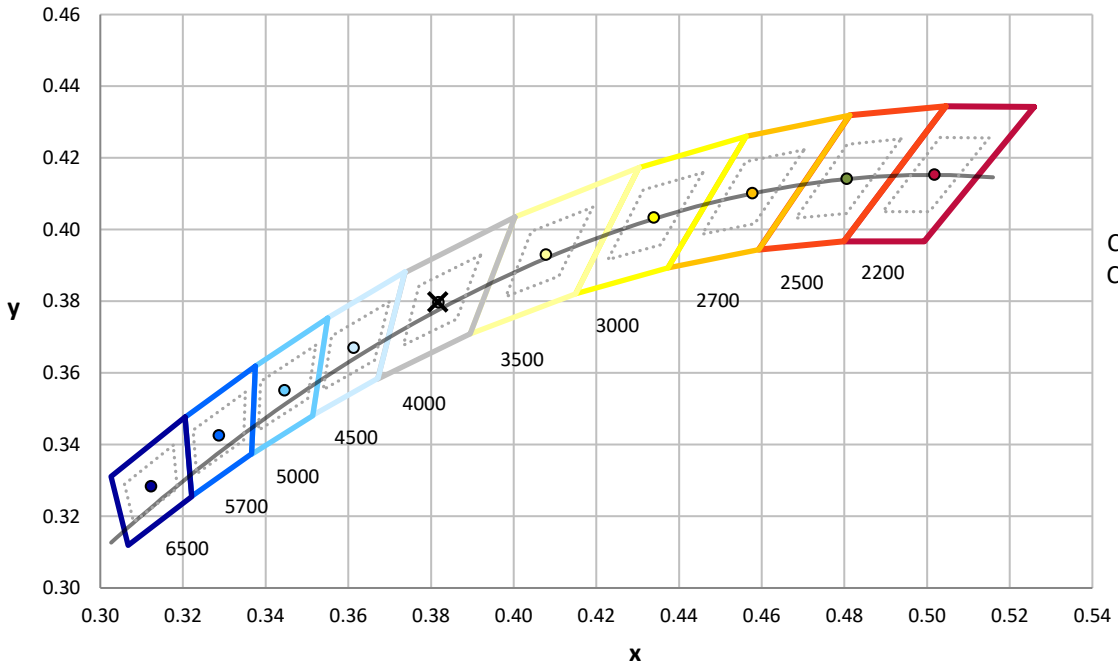
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

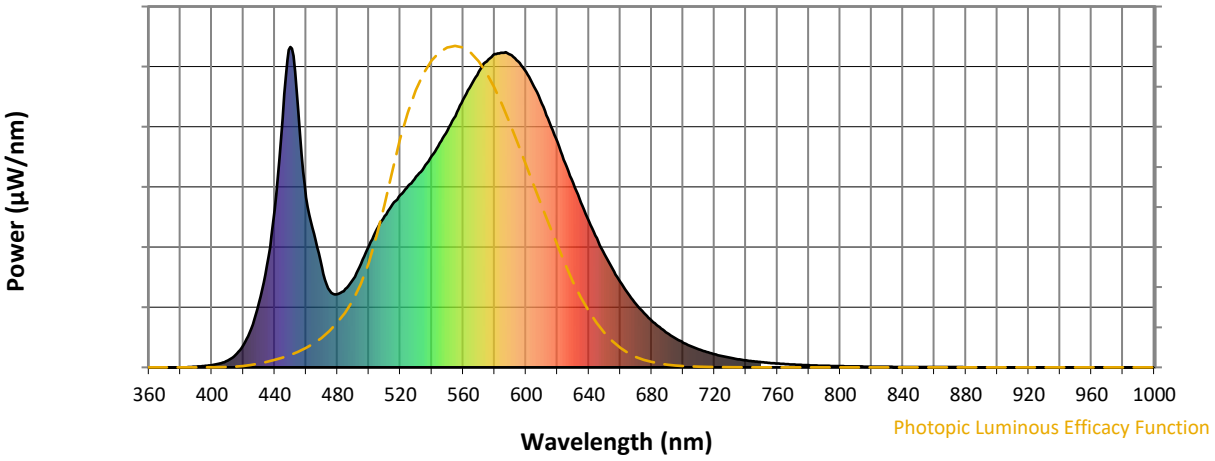


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

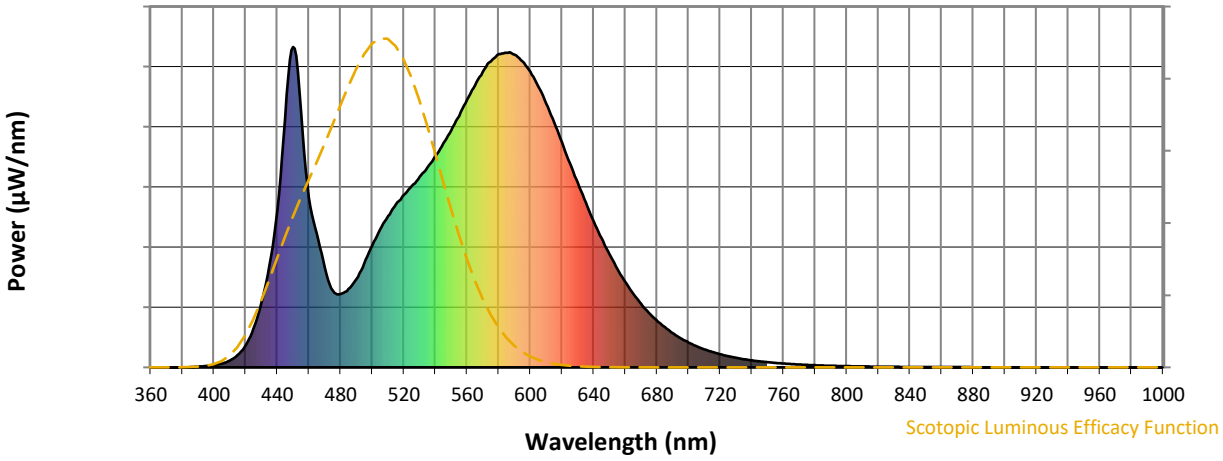


Photopic Lumens: NR

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

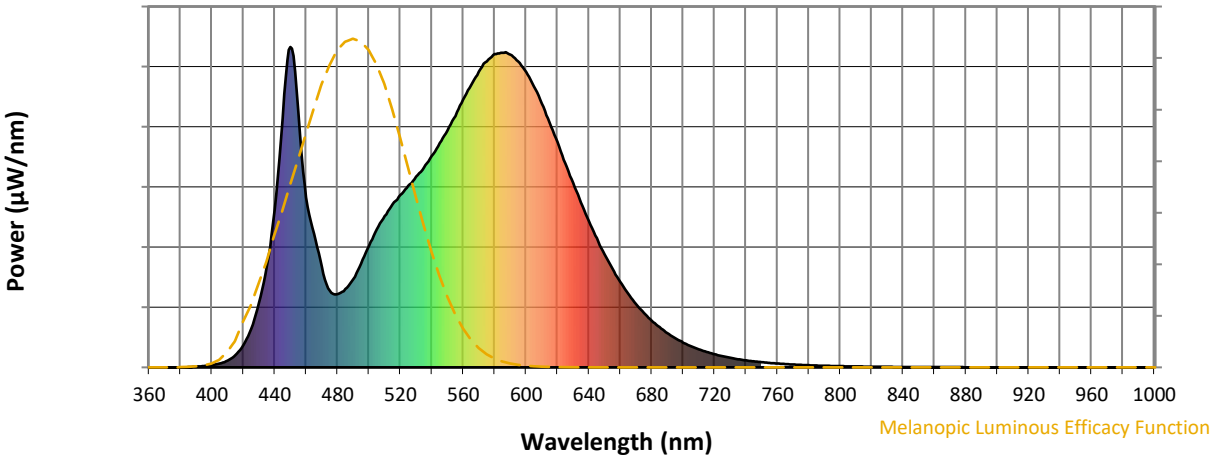


Scotopic Lumens: NR **S/P: 1.59**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.21**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

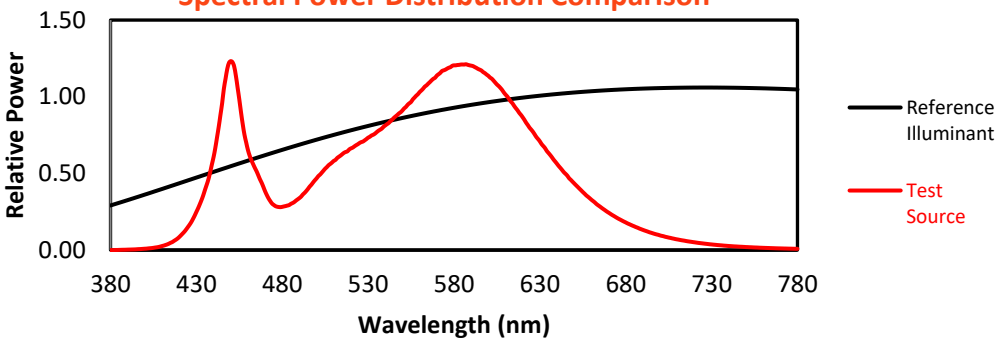
REPORT NUMBER: SP1-2501-332-1

TM-30-18

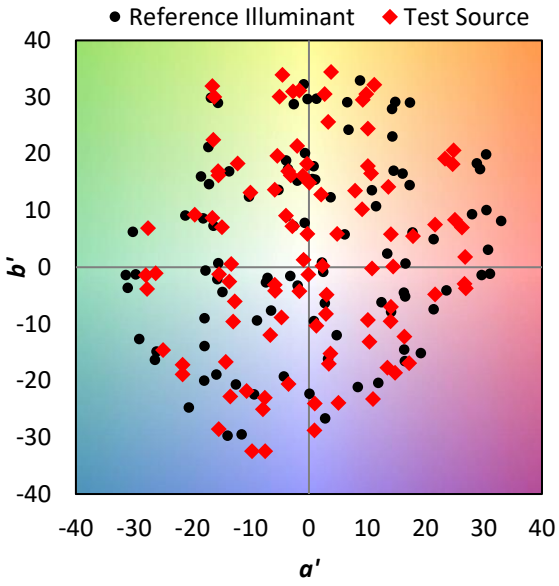
Summary

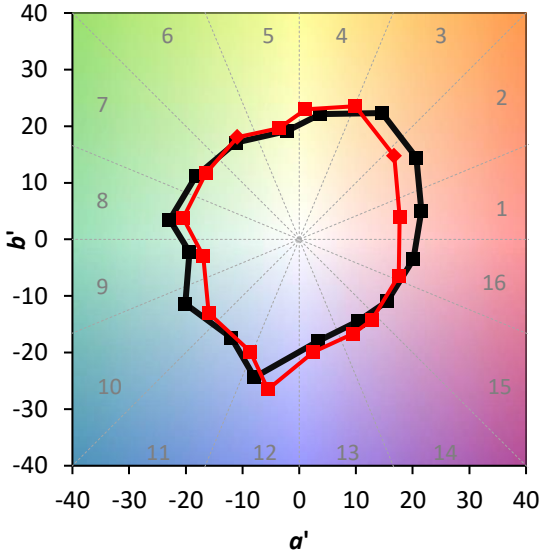
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

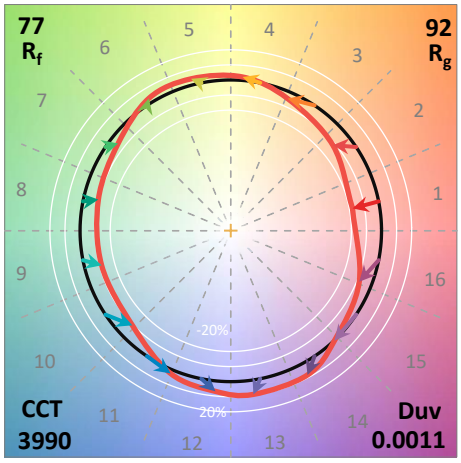
Spectral Power Distribution Comparison

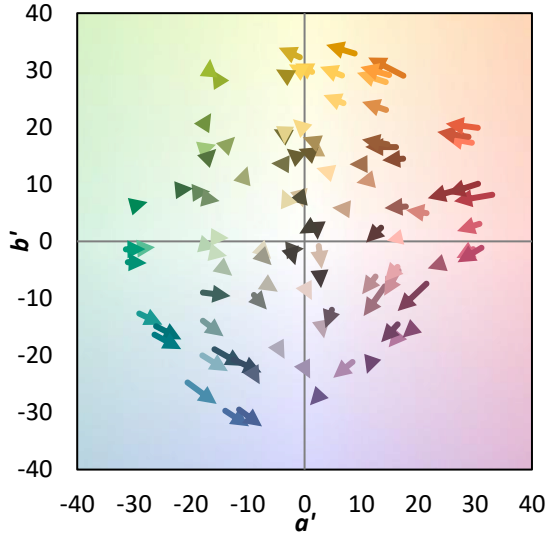


Color Vector Graphics







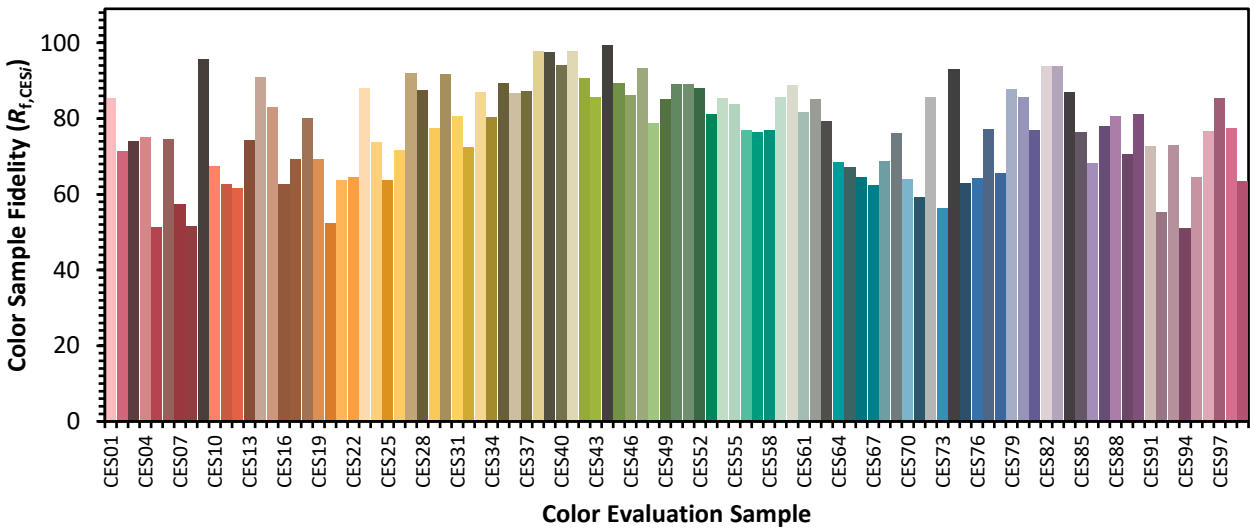


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Individual Sample Fidelity Index ($R_{f,i}$)

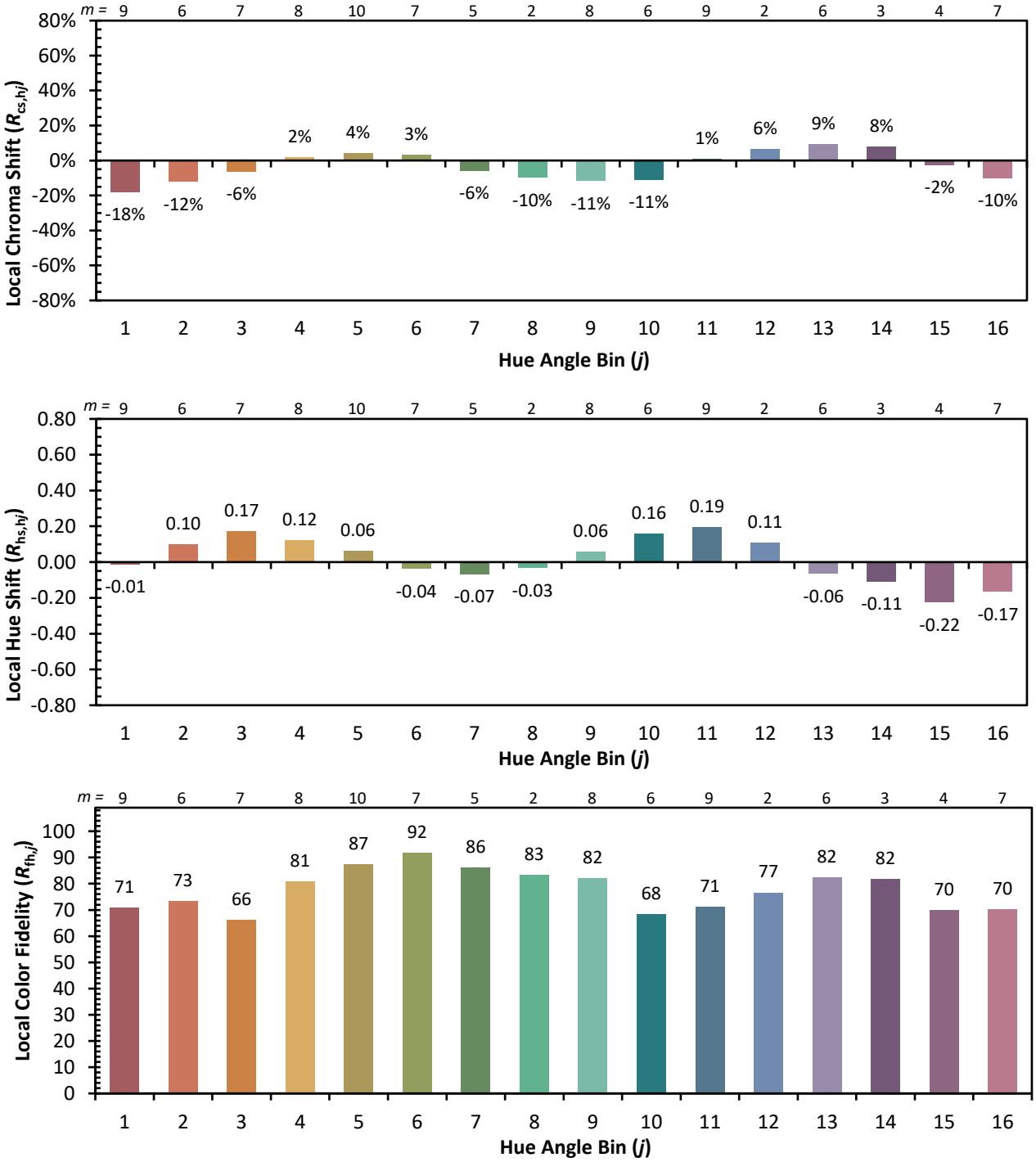
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



REPORT NUMBER: SP1-2501-332-1

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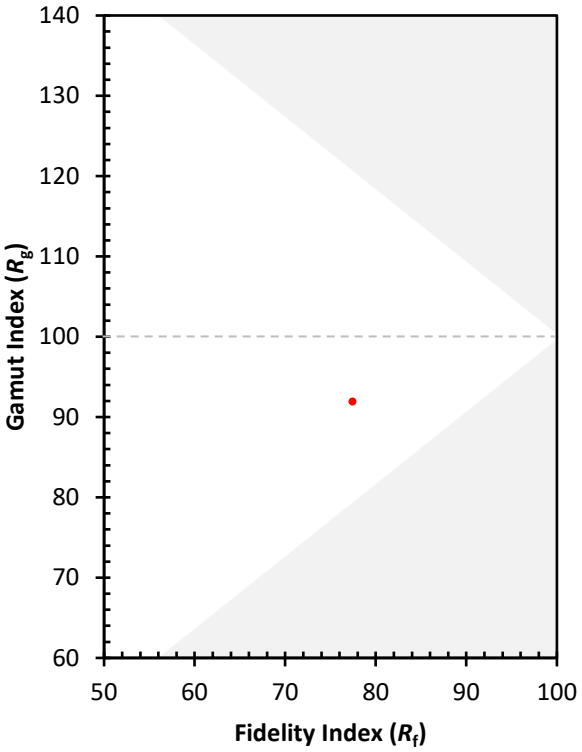
Color Rendition by Hue-Angle Bin

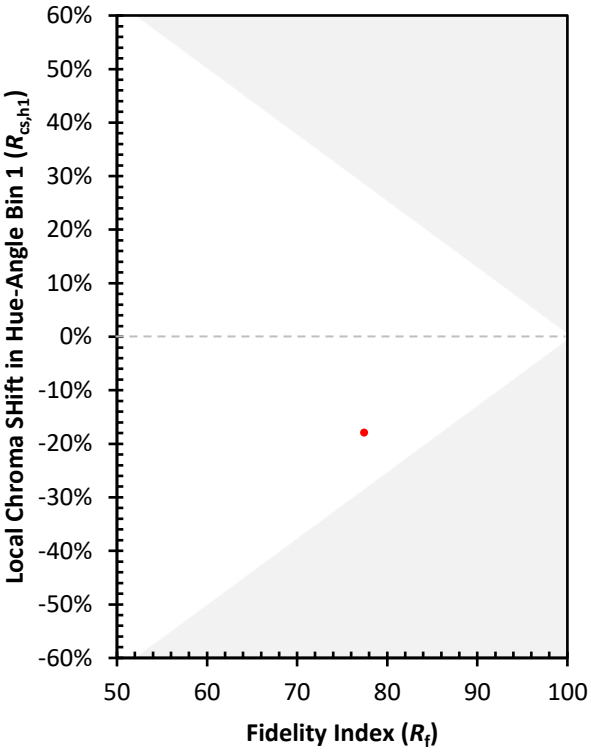


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)