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: P1046442

Luminaire Tested: **FFX-CLB-20-740-U-FR-T4-UPLR**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046442
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-740-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3289.2 lumens
Efficiency:	N/A
Efficacy:	166.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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

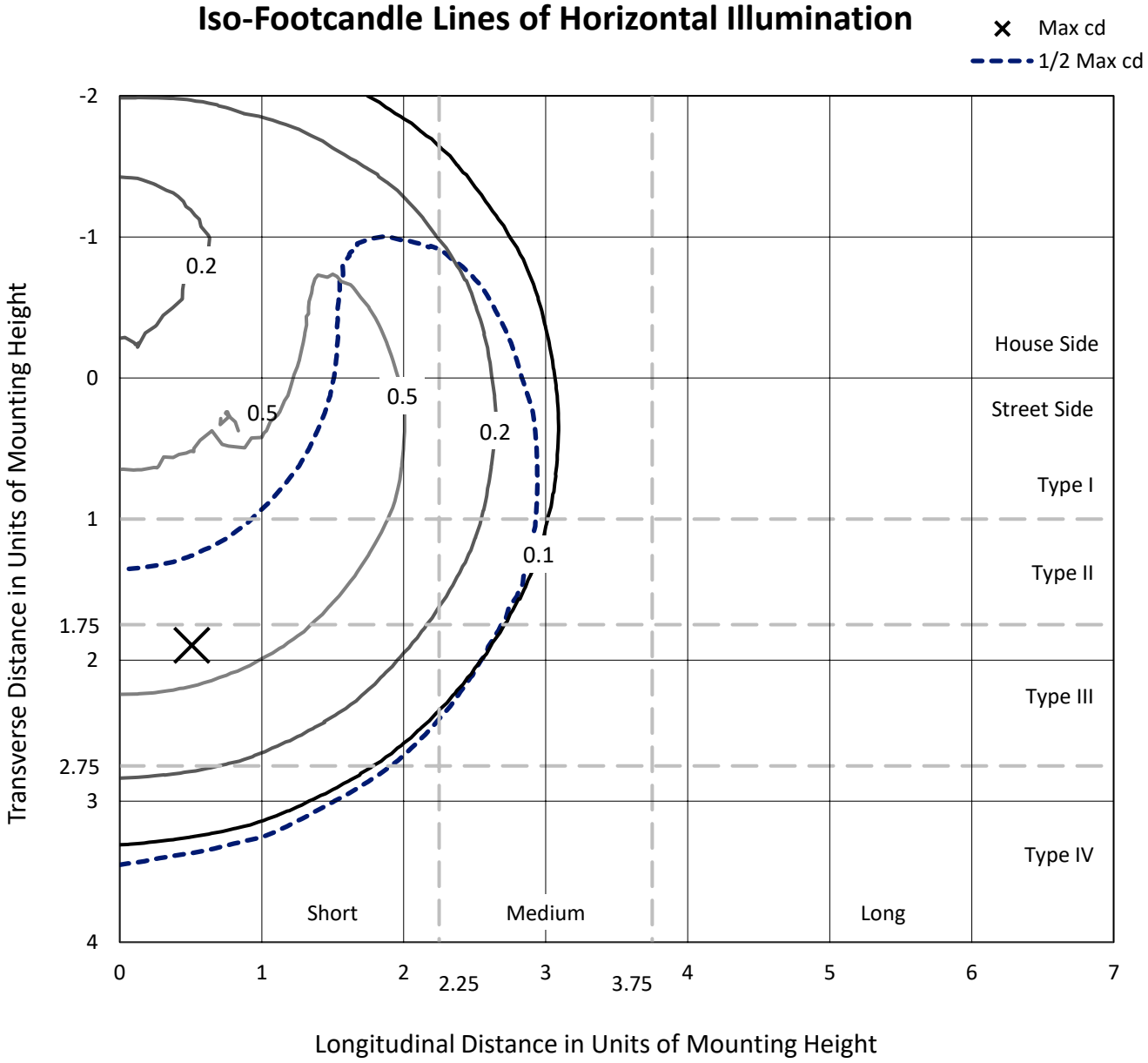


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Iso-Footcandle Lines of Horizontal Illumination



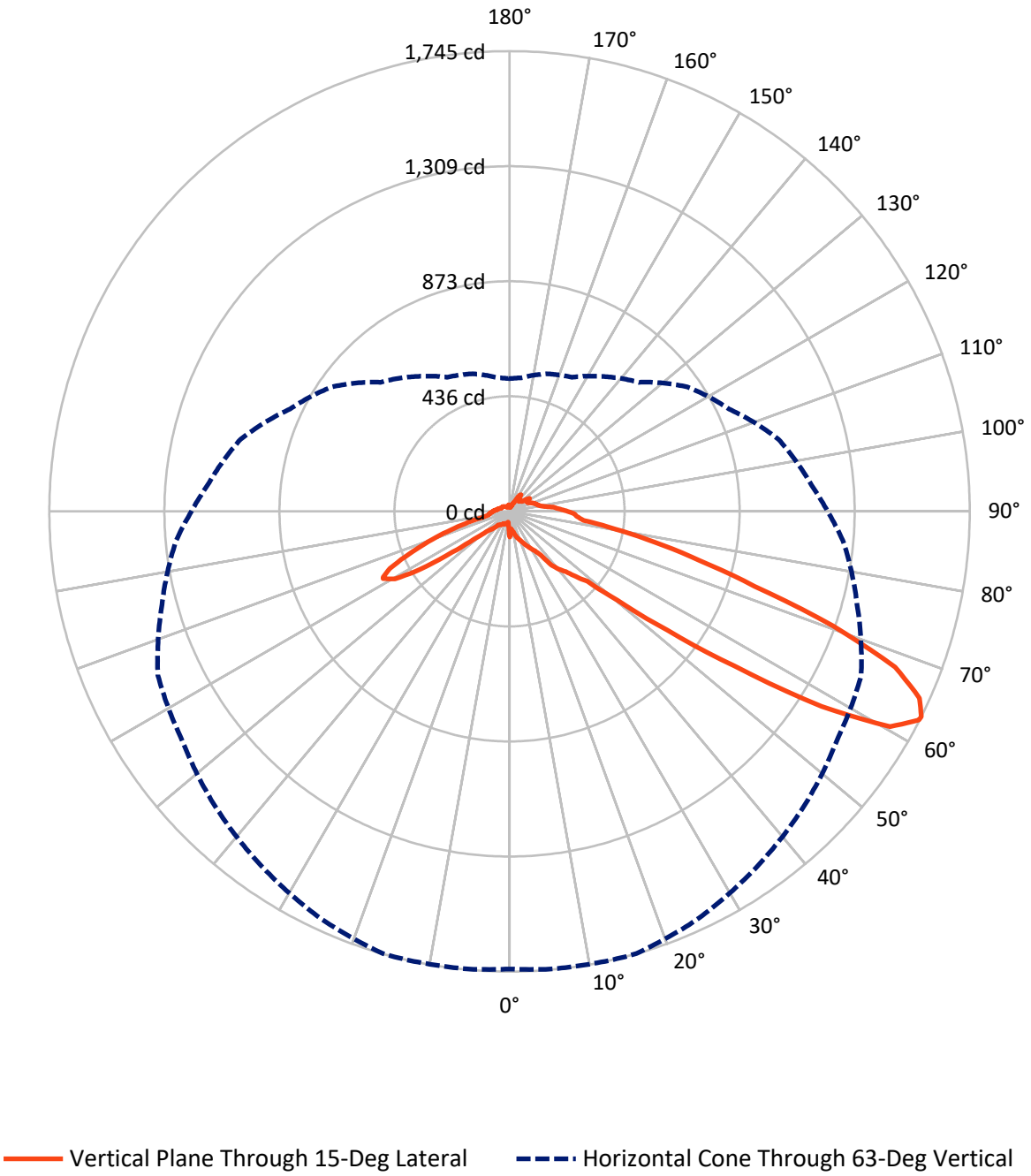
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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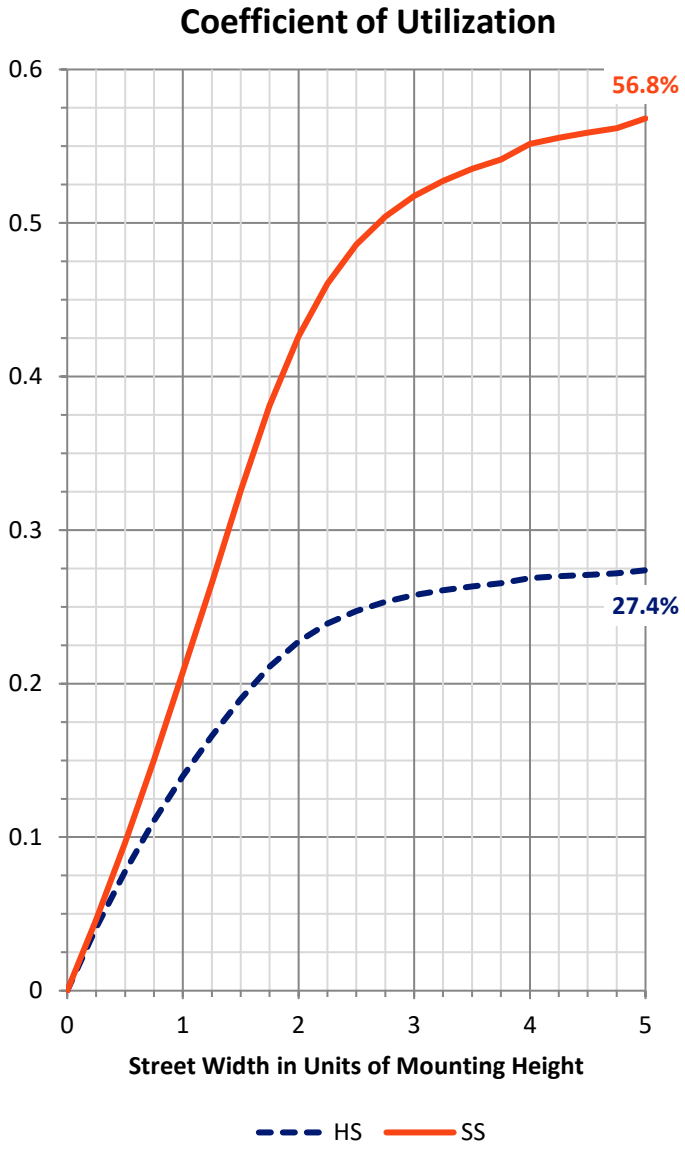
REPORT NUMBER: P1046442
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.2	151.6	1081.8
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	1947.8	259.6	2207.4
	% Fixture	59.2	7.9	67.1
Total	Lumens	2878.1	411.2	3289.2
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.2
10°-20°	21.5	0.7
20°-30°	46.7	1.4
30°-40°	95.9	2.9
40°-50°	197.8	6.0
50°-60°	650.7	19.8
60°-70°	1077.4	32.8
70°-80°	565.1	17.2
80°-90°	217.0	6.6
90°-100°	131.1	4.0
100°-110°	82.6	2.5
110°-120°	61.1	1.9
120°-130°	52.0	1.6
130°-140°	33.9	1.0
140°-150°	29.5	0.9
150°-160°	13.5	0.4
160°-170°	5.5	0.2
170°-180°	1.9	0.1
0°-90°	2878.1	87.5
0°-180°	3289.2	100.0



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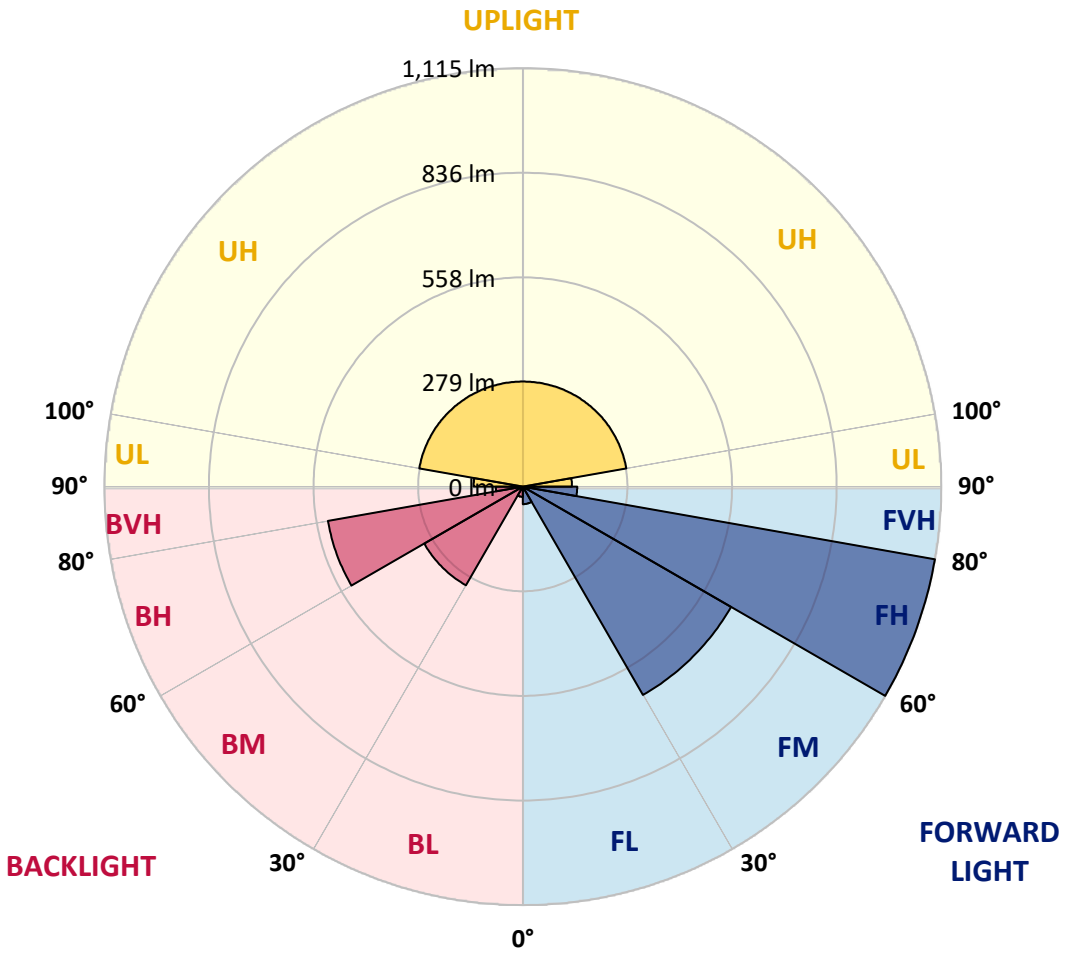
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	46.8	1.4			
FM	(30°-60°)	640.9	19.5			
FH	(60°-80°)	1115.1	33.9			G1/1800
FVH	(80°-90°)	145.0	4.4			G2/225
BL	(0°-30°)	27.4	0.8	B0/110		
BM	(30°-60°)	303.5	9.2	B1/1000		
BH	(60°-80°)	527.3	16.0	B2/1000		G2/1000
BVH	(80°-90°)	72.0	2.2			G1/100
UL	(90°-100°)	131.1	4.0		U3/500	
UH	(100°-180°)	280.1	8.5		U3/500	

BUG Rating: B2-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2.5°	59.8	59.8	68.4	69.9	78.1	80.7	76.2	72.7	81.2	98.4	101.2
5°	65.0	66.3	66.1	65.8	66.3	74.0	82.0	78.4	64.3	51.2	51.2
7.5°	73.6	74.0	73.8	73.6	70.8	66.3	64.3	70.2	73.8	62.8	52.7
10°	79.7	79.2	79.0	78.8	79.2	81.0	80.3	73.2	66.1	62.4	60.2
12.5°	91.1	91.3	90.7	90.2	89.8	89.2	88.5	90.0	86.1	75.6	68.4
15°	99.7	99.7	101.5	101.0	101.0	98.9	95.8	91.5	86.4	83.5	77.3
17.5°	108.8	109.0	108.8	108.8	107.9	105.1	101.9	98.0	92.6	87.9	82.5
20°	117.7	117.7	117.4	117.2	117.0	114.8	110.7	105.6	100.6	96.1	90.5
22.5°	126.9	127.6	128.0	127.6	126.9	124.8	120.2	115.3	110.5	104.1	98.0
25°	140.1	140.3	139.9	139.5	138.6	135.8	132.3	127.2	121.3	114.4	106.4
27.5°	152.6	153.1	152.8	152.8	151.1	148.7	145.3	138.4	131.9	123.9	115.7
30°	166.9	166.4	165.4	165.6	164.5	162.6	158.7	152.6	144.4	134.9	125.9
32.5°	180.9	180.9	179.4	178.7	178.7	176.2	171.8	165.6	157.8	147.7	138.8
35°	196.2	200.1	204.0	205.5	205.5	201.8	196.7	188.5	181.8	171.2	160.2
37.5°	269.8	267.5	258.0	259.1	255.8	254.3	250.8	243.9	234.7	218.5	201.6
40°	295.7	295.3	288.2	287.3	285.8	280.9	277.2	272.4	269.2	249.8	224.5
42.5°	300.3	302.7	312.2	314.5	326.8	319.3	304.6	277.8	271.1	256.5	245.9
45°	351.2	352.1	352.1	352.5	349.3	343.7	341.7	324.7	311.3	290.1	270.3
47.5°	402.0	403.9	396.3	402.4	410.8	399.4	394.2	380.2	361.8	345.4	312.8
50°	519.8	527.4	528.9	529.1	532.8	531.9	524.1	504.7	486.4	448.8	412.5
52.5°	738.1	745.4	748.7	740.9	729.4	724.3	726.2	718.2	675.7	635.3	561.7
55°	1023.0	1035.8	1035.8	1044.0	1040.5	1015.9	1014.4	962.2	893.5	848.6	784.5
57.5°	1404.3	1385.1	1395.9	1407.5	1383.8	1357.9	1319.2	1264.6	1164.2	1086.7	993.9
60°	1686.9	1679.1	1657.7	1644.5	1585.2	1533.8	1503.4	1463.4	1387.2	1285.3	1161.2
62.5°	1738.7	1744.3	1742.8	1742.8	1695.3	1633.7	1572.2	1513.7	1466.4	1361.5	1263.3
63°	1735.4	1742.3	1745.1	1744.3	1701.5	1640.9	1579.8	1515.2	1471.4	1364.3	1269.3
65°	1707.8	1713.6	1708.7	1706.9	1679.9	1638.9	1570.3	1506.4	1466.4	1351.8	1270.2
67.5°	1596.8	1595.5	1577.0	1585.4	1568.3	1545.5	1481.3	1418.3	1390.7	1265.5	1190.3
70°	1289.6	1280.6	1300.9	1313.0	1294.4	1285.3	1209.1	1167.7	1132.1	1036.8	976.2
72.5°	985.9	967.1	970.6	981.6	958.3	952.0	919.4	885.3	868.3	808.9	741.5
75°	773.0	762.9	744.1	747.1	727.9	721.7	718.2	708.3	701.6	652.2	585.5
77.5°	578.1	577.7	561.9	559.5	545.7	556.1	552.0	566.9	563.7	524.4	473.6
80°	404.6	402.2	406.3	404.8	401.5	407.6	401.1	409.3	409.3	383.6	362.2
82.5°	264.0	268.8	281.7	284.7	289.5	303.7	280.9	268.8	265.5	262.7	252.4
85°	262.1	263.4	257.8	258.4	256.2	250.8	254.9	256.9	253.7	238.1	215.2
87.5°	247.0	248.7	244.2	245.5	237.5	239.2	241.8	243.3	241.8	228.0	209.0
90°	208.1	210.0	214.1	214.1	214.8	215.2	211.1	213.5	212.0	198.8	185.0
92.5°	184.6	186.3	186.5	186.7	185.0	190.6	183.9	179.8	178.7	168.2	158.2
95°	168.8	166.9	166.4	166.9	166.0	165.8	161.5	158.5	157.2	148.7	139.0
97.5°	132.1	133.2	132.8	133.8	131.7	131.5	127.8	123.9	122.6	115.7	109.2
100°	115.9	115.7	116.1	116.4	115.1	113.6	111.0	108.2	106.6	101.5	95.2
102.5°	108.8	108.6	109.4	109.7	108.6	107.5	105.3	103.6	102.3	97.6	90.7
105°	104.3	103.6	104.7	104.7	102.3	101.7	100.2	100.0	99.1	93.5	86.8
107.5°	98.0	96.9	98.2	98.0	97.1	96.5	95.2	94.3	93.7	88.9	81.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	92.2	90.7	*91.3*	91.7	92.4	92.0	90.9	89.2	87.4	83.5	77.3
112.5°	81.4	82.2	*82.0*	82.0	82.7	82.9	81.0	79.9	78.8	75.8	71.7
115°	77.3	77.3	*77.3*	77.3	75.6	74.9	73.0	71.7	71.5	67.8	65.2
117.5°	74.0	74.5	*75.6*	76.2	78.4	77.1	72.7	69.9	68.9	67.4	64.5
120°	87.2	85.7	*84.2*	84.0	84.2	83.3	82.5	80.5	77.9	73.8	66.1
122.5°	93.5	89.6	*90.2*	90.0	88.5	89.2	89.4	89.6	87.9	81.4	69.3
125°	78.4	77.3	*77.9*	78.6	78.8	78.6	78.1	80.1	77.7	75.6	66.5
127.5°	62.6	62.2	*60.9*	60.7	60.2	60.4	60.4	61.1	58.9	56.8	56.3
130°	59.6	58.7	*58.9*	59.1	58.9	57.6	56.8	55.7	55.5	53.3	50.3
132.5°	54.0	54.4	*58.1*	58.5	61.1	59.6	55.0	52.0	52.5	53.5	52.5
135°	50.5	50.3	*53.1*	53.3	57.2	56.1	52.5	49.0	49.0	51.6	50.5
137.5°	51.6	52.0	*52.2*	52.5	52.2	52.0	51.8	50.3	49.2	49.0	46.4
140°	55.5	55.3	*53.1*	53.3	53.1	53.1	54.4	55.5	51.8	48.6	44.3
142.5°	58.1	58.7	*57.9*	58.9	60.9	59.1	57.0	54.2	52.0	49.9	47.3
145°	78.8	77.3	*76.6*	76.2	74.9	71.2	69.1	66.3	63.7	60.2	55.9
147.5°	71.5	71.9	*70.6*	71.0	69.3	68.0	67.6	67.8	66.9	65.0	60.4
150°	56.8	57.2	*55.9*	55.3	54.6	54.6	54.6	55.0	54.0	52.7	50.5
152.5°	39.7	39.3	*38.9*	38.6	38.2	37.8	37.8	38.0	36.9	36.5	34.8
155°	36.5	36.3	*34.5*	34.1	34.5	35.0	35.2	34.5	33.7	32.8	30.4
157.5°	28.5	27.8	*27.6*	28.1	28.1	27.8	27.4	27.8	27.0	26.8	26.3
160°	23.3	23.1	*23.3*	23.3	23.5	23.5	23.3	23.3	22.9	23.1	23.1
162.5°	19.9	19.9	*19.9*	19.6	20.1	20.3	20.1	20.1	20.3	20.9	21.4
165°	17.1	17.1	*17.3*	17.3	17.5	17.5	17.7	17.9	18.3	19.9	21.2
167.5°	16.0	16.0	*16.2*	16.2	16.4	16.6	17.1	17.9	19.2	20.9	21.6
170°	15.8	15.8	*15.8*	15.8	16.0	16.2	17.1	18.3	19.9	20.9	20.3
172.5°	16.4	16.4	*16.6*	16.6	16.6	17.5	18.1	19.2	20.1	20.3	19.6
175°	17.1	16.8	*17.1*	17.1	17.3	17.9	18.8	19.2	19.6	19.9	20.1
177.5°	16.6	16.6	*16.6*	16.8	16.8	17.1	17.5	17.7	18.1	18.6	19.2
180°	16.2	16.2	*16.2*	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2.5°	101.2	98.4	76.6	65.6	74.9	93.0	94.8	82.0	63.7	44.3	40.4
5°	54.0	57.0	63.7	63.5	59.1	55.3	50.5	47.5	52.5	50.3	51.6
7.5°	48.8	46.0	47.1	55.0	53.8	40.8	36.9	36.1	40.4	50.3	49.2
10°	59.4	58.5	55.3	48.8	46.6	48.4	49.9	48.8	44.9	39.1	38.2
12.5°	67.1	66.1	66.5	70.6	65.6	54.4	48.1	46.2	48.4	57.0	58.7
15°	74.7	72.7	69.9	64.1	59.4	56.3	52.7	48.8	50.1	47.7	46.8
17.5°	79.9	76.9	71.0	66.7	62.0	58.1	54.8	50.7	47.9	47.3	47.5
20°	86.8	83.5	77.3	72.3	66.5	61.3	55.7	51.4	48.6	47.5	47.5
22.5°	94.8	90.9	83.8	76.9	70.4	63.7	57.0	52.2	49.7	48.6	48.1
25°	103.2	99.3	90.5	83.1	74.9	67.6	60.7	54.6	51.8	50.5	49.4
27.5°	111.8	107.1	98.2	89.2	80.3	71.7	64.3	58.1	54.2	52.0	52.2
30°	121.3	117.4	107.5	97.1	86.1	76.0	68.9	61.7	57.0	54.6	54.8
32.5°	134.1	127.8	115.9	104.1	93.3	82.0	73.0	64.8	59.6	58.1	58.3
35°	155.2	147.2	132.8	116.6	102.1	88.9	77.5	67.8	61.7	59.4	59.1
37.5°	193.4	182.6	166.0	147.0	126.1	104.7	86.1	71.2	63.7	59.8	59.1
40°	212.0	197.3	176.4	160.0	145.7	127.4	106.2	83.8	66.9	62.0	61.3
42.5°	236.8	224.5	197.3	165.4	146.4	131.0	116.1	101.7	80.7	67.8	65.4
45°	260.8	249.8	228.4	197.1	168.8	144.9	122.6	106.9	93.9	80.7	79.7
47.5°	301.1	289.5	253.9	226.0	196.2	169.0	145.7	119.8	103.0	93.7	93.7
50°	402.4	381.0	345.8	303.1	255.2	211.1	178.1	146.4	126.1	112.0	111.4
52.5°	543.8	513.6	461.8	414.5	357.9	307.0	255.6	200.3	170.8	150.5	150.2
55°	748.0	717.1	647.8	557.0	487.7	426.8	373.5	312.8	266.2	233.4	230.8
57.5°	965.8	939.9	869.3	756.4	647.2	539.5	474.9	426.6	404.1	381.2	376.5
60°	1107.0	1062.5	998.2	890.5	784.7	647.4	567.3	511.8	504.3	499.3	493.1
62.5°	1195.9	1143.5	1047.9	918.8	821.6	691.7	620.0	560.8	543.1	516.6	509.0
63°	*1206.1*	*1149.1*	*1055.8*	*918.1*	*822.7*	*692.3*	*623.9*	*560.8*	*540.1*	*508.2*	*503.2*
65°	1201.3	1148.5	1055.4	904.7	797.7	679.6	612.7	535.2	502.1	459.8	451.4
67.5°	1128.8	1072.5	984.8	836.7	740.0	619.6	545.9	463.7	413.6	372.2	362.5
70°	919.0	884.0	806.9	678.9	605.5	511.6	447.1	382.5	328.3	284.7	273.7
72.5°	700.3	663.6	605.7	522.6	468.4	403.9	342.8	293.2	248.5	219.5	220.4
75°	555.7	520.7	473.0	418.4	374.1	316.7	256.2	207.0	175.3	158.0	156.5
77.5°	447.5	423.3	381.7	331.4	293.2	233.1	179.4	136.4	112.9	103.0	100.2
80°	345.0	328.1	297.0	252.8	213.1	163.8	122.2	96.5	84.0	75.6	74.0
82.5°	245.5	235.3	209.4	178.5	151.5	125.9	107.1	90.2	77.3	70.2	68.0
85°	204.9	195.4	179.0	159.7	142.5	123.7	103.8	85.9	73.8	68.2	65.4
87.5°	198.8	190.0	174.2	153.7	134.9	114.6	94.6	77.7	69.1	63.7	62.0
90°	178.1	171.4	157.6	138.8	120.0	99.3	81.8	69.9	63.3	58.9	57.0
92.5°	153.5	147.7	136.2	120.5	104.7	89.8	76.4	66.5	59.8	55.5	54.0
95°	133.4	129.7	120.2	106.9	95.4	83.1	71.7	62.2	55.3	51.4	49.9
97.5°	106.4	102.1	95.2	85.9	77.3	68.6	60.2	53.8	48.8	46.2	44.9
100°	92.6	89.8	83.5	76.2	68.9	61.3	54.8	49.9	46.6	44.5	43.4
102.5°	87.2	85.3	79.4	72.1	65.2	57.9	51.4	46.8	44.5	42.5	41.7
105°	82.2	80.7	76.2	69.5	62.8	54.8	47.5	43.6	41.4	40.2	39.5
107.5°	77.1	75.3	71.0	64.5	58.7	51.8	45.3	40.6	37.8	36.3	36.1

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

Scaled Data Report

REPORT NUMBER: P1046442
CATALOG NUMBER: FFX-CLB-20-740-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	72.7	71.5	66.7	61.5	55.9	49.4	43.8	38.9	35.6	33.9	33.7
112.5°	68.2	66.7	62.0	57.0	52.2	46.6	41.7	37.3	34.3	32.6	32.4
115°	62.2	60.9	57.4	52.7	48.8	43.4	39.3	35.4	33.0	31.3	31.1
117.5°	62.8	59.1	54.4	50.1	46.6	42.7	39.1	36.1	32.4	30.4	30.4
120°	63.7	60.2	55.5	51.8	49.9	46.8	41.2	36.9	31.9	30.0	29.8
122.5°	62.8	63.3	60.7	57.0	53.1	47.9	41.0	36.3	31.3	29.8	30.0
125°	60.9	62.8	59.1	54.2	49.0	44.0	38.2	33.9	30.9	29.8	29.6
127.5°	55.0	54.6	49.9	46.2	42.5	38.4	34.8	32.2	30.0	28.7	28.1
130°	48.6	48.4	46.4	43.4	39.7	36.1	32.8	31.1	28.9	27.2	26.8
132.5°	51.2	50.5	46.4	41.4	37.3	34.3	32.2	30.2	27.2	25.3	25.0
135°	48.4	47.9	43.8	38.9	35.2	33.7	32.2	29.4	25.7	24.2	24.0
137.5°	44.3	42.5	39.1	36.1	34.3	33.9	31.9	28.7	25.3	23.5	23.3
140°	42.1	40.8	38.2	36.3	34.3	31.9	29.1	26.1	23.7	22.5	22.2
142.5°	44.7	44.3	40.4	36.9	33.9	31.1	28.1	26.1	23.5	21.8	21.6
145°	52.9	50.7	46.0	41.2	38.6	35.0	31.1	27.0	22.2	19.6	19.0
147.5°	57.9	55.9	51.2	46.0	40.4	34.5	28.5	23.3	19.6	17.7	17.3
150°	47.9	47.1	44.0	39.3	34.5	29.1	24.2	20.5	18.1	16.8	16.8
152.5°	33.7	33.5	32.2	29.4	26.3	23.3	20.7	18.6	17.3	16.4	16.4
155°	29.8	29.4	28.5	25.9	23.7	21.2	19.2	17.9	17.1	16.4	16.4
157.5°	25.7	25.3	25.0	23.1	21.4	19.6	18.1	17.1	16.4	16.0	15.8
160°	22.9	22.2	21.6	20.5	19.4	18.6	17.9	17.1	16.4	16.0	16.0
162.5°	21.4	20.9	19.9	19.0	18.6	18.6	18.8	18.3	17.1	16.4	16.2
165°	21.4	20.7	19.2	18.3	18.3	19.4	20.5	19.6	18.6	17.3	17.1
167.5°	21.6	21.2	19.6	19.0	19.6	20.9	22.0	21.8	20.3	19.2	19.2
170°	20.1	19.9	20.1	20.7	21.4	21.6	22.0	21.8	22.2	23.7	23.7
172.5°	19.4	19.6	20.7	21.8	23.1	23.1	22.0	21.8	23.7	25.9	26.3
175°	20.3	20.7	21.8	23.1	24.2	24.2	23.1	23.3	25.3	27.2	27.6
177.5°	19.4	19.6	20.1	19.9	20.3	19.2	19.6	19.2	19.9	19.9	19.9
180°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

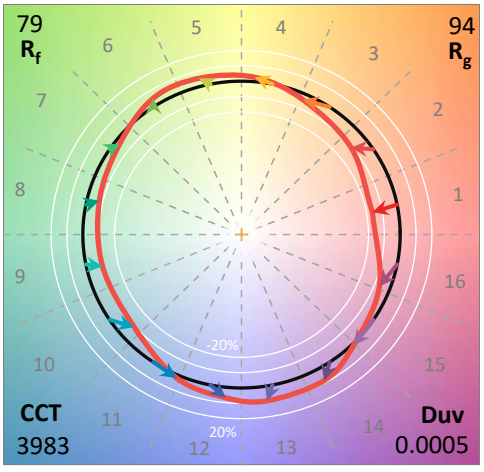
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

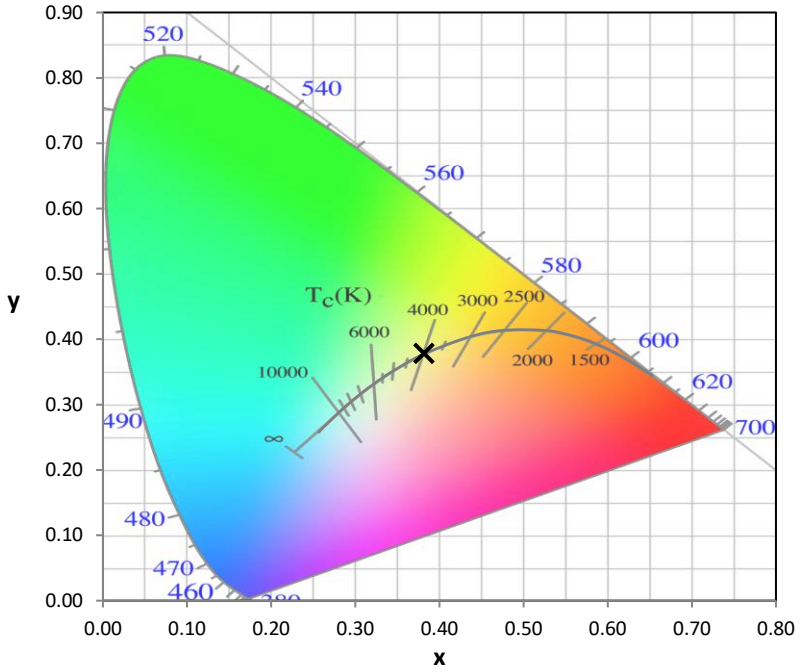
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

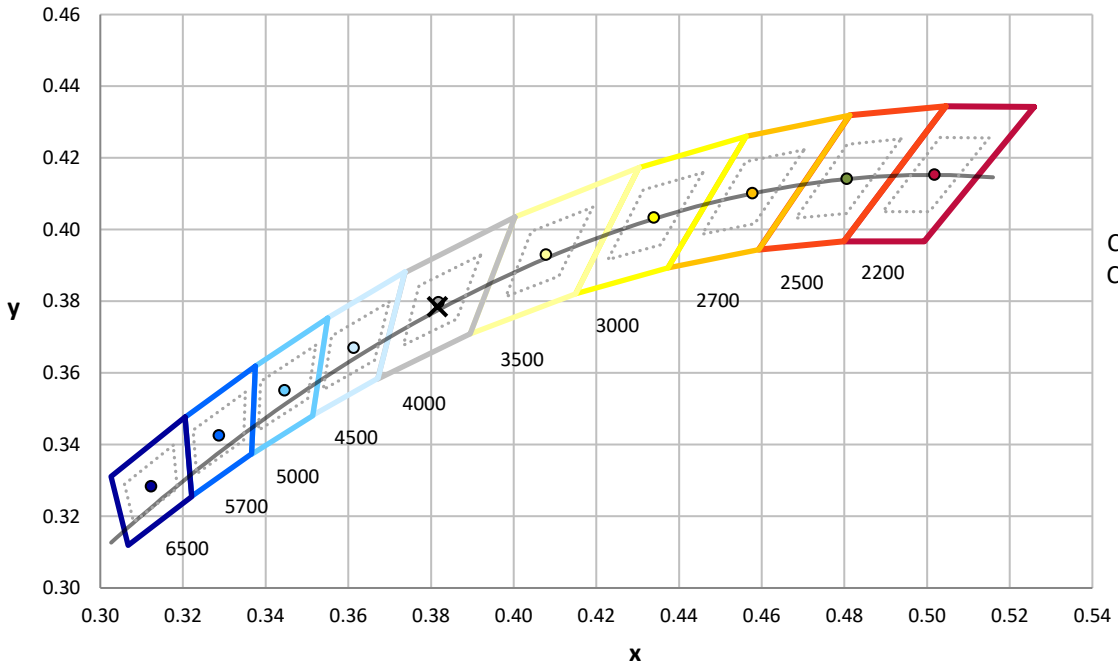
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

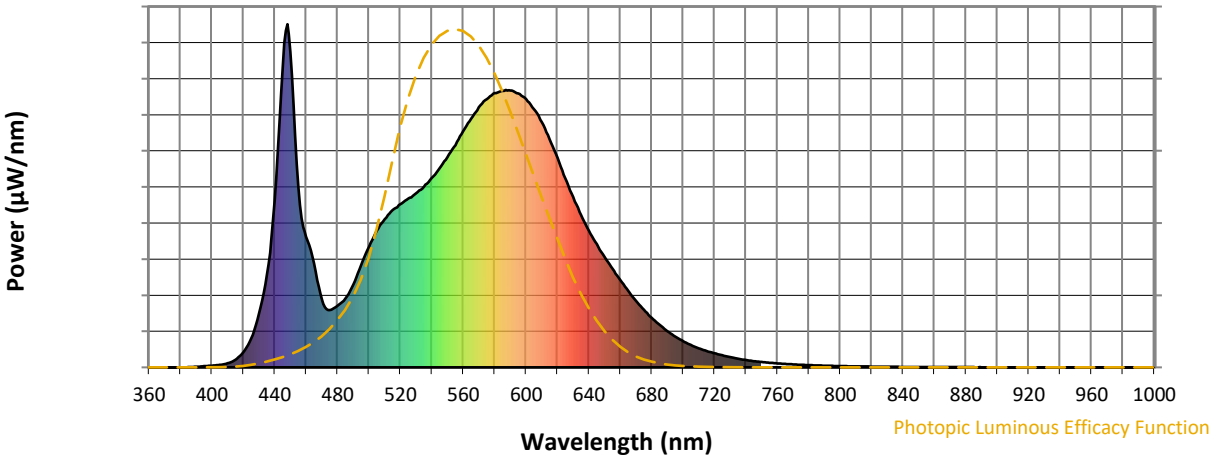


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

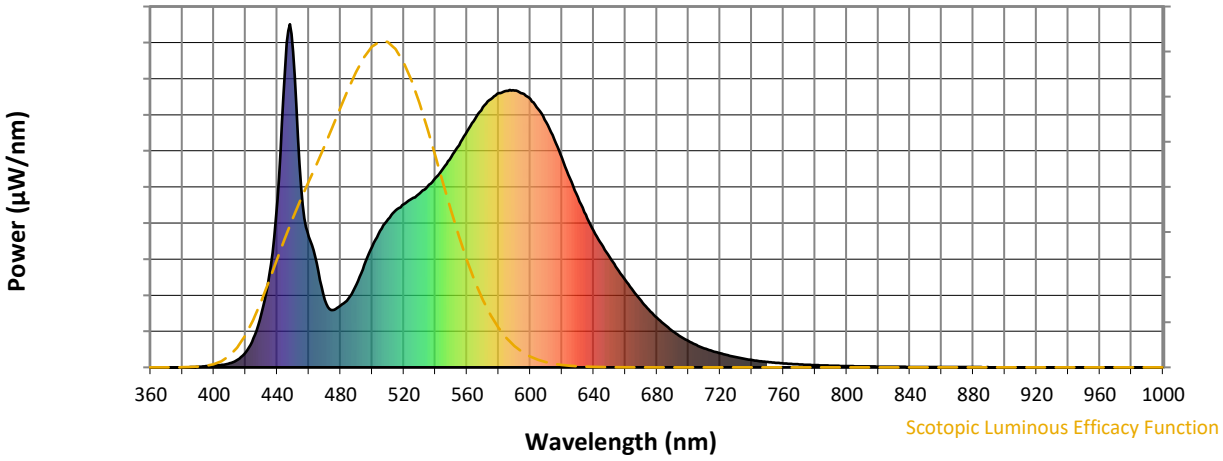


Photopic Lumens: NR

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

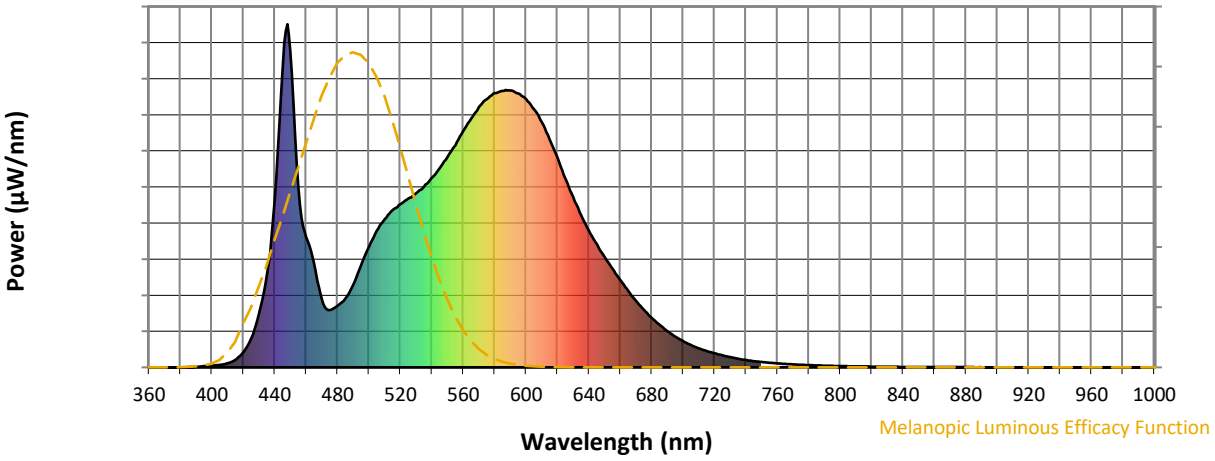


Scotopic Lumens: NR **S/P: 1.61**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

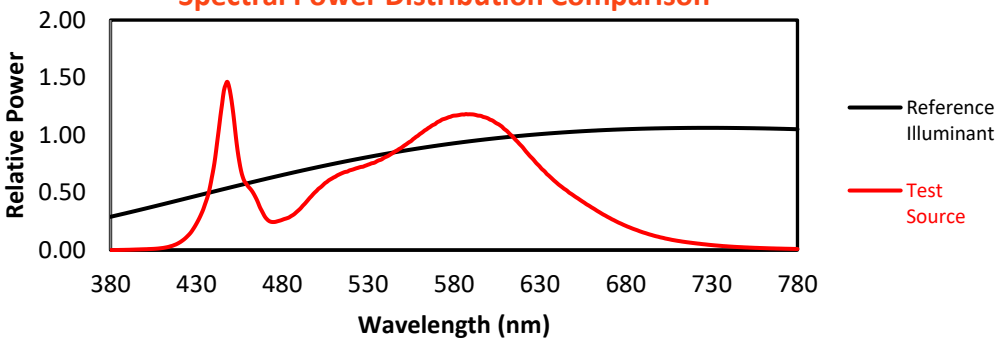
REPORT NUMBER: SP1-2501-332-11

TM-30-18

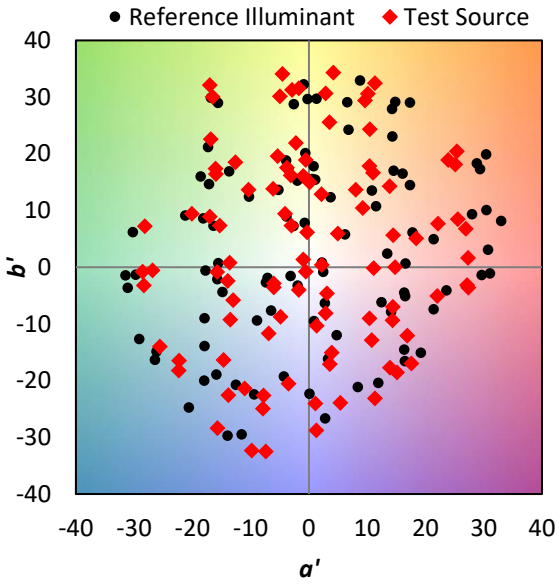
Summary

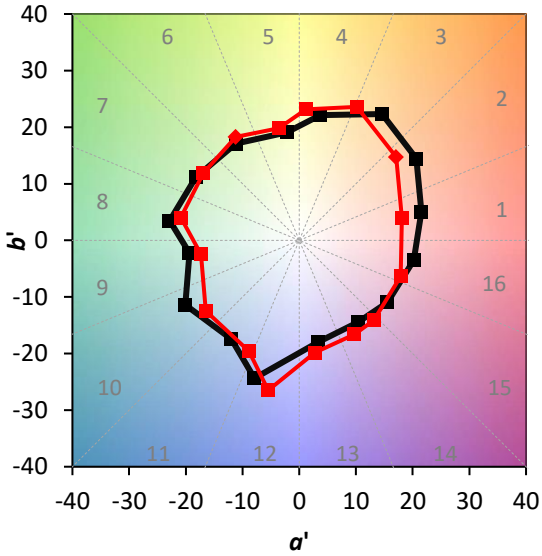
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

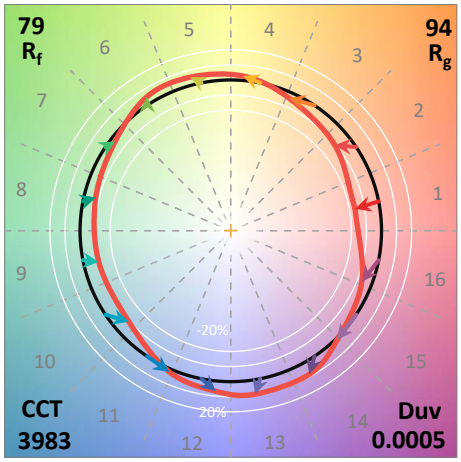
Spectral Power Distribution Comparison

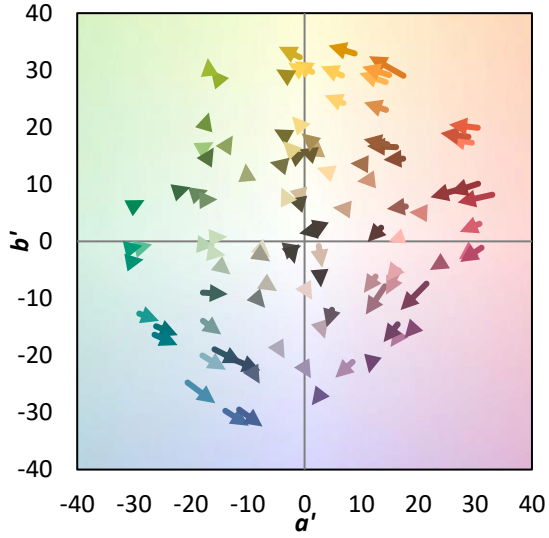


Color Vector Graphics







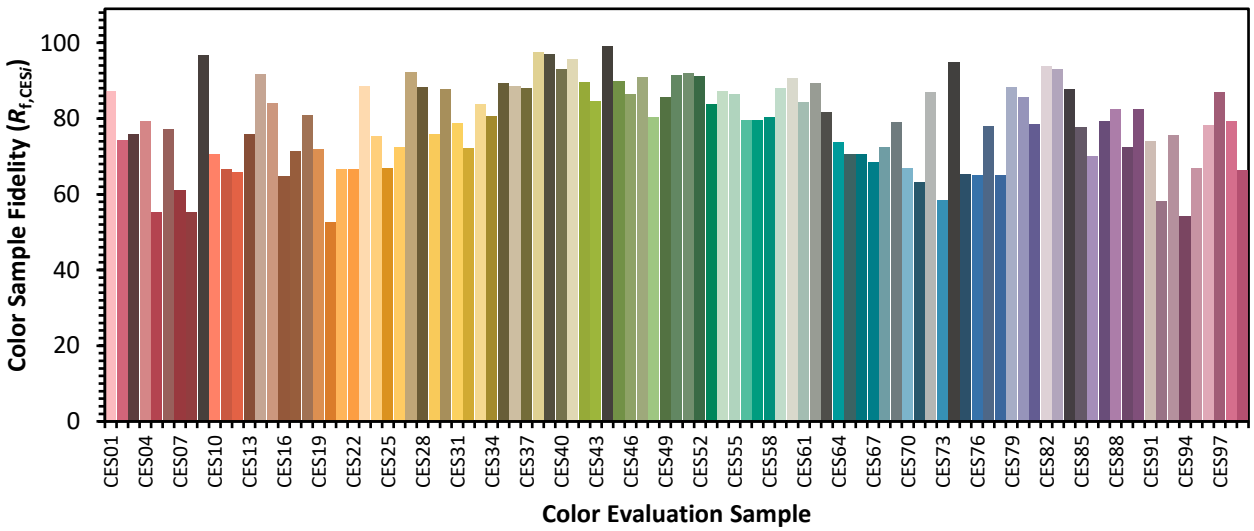


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

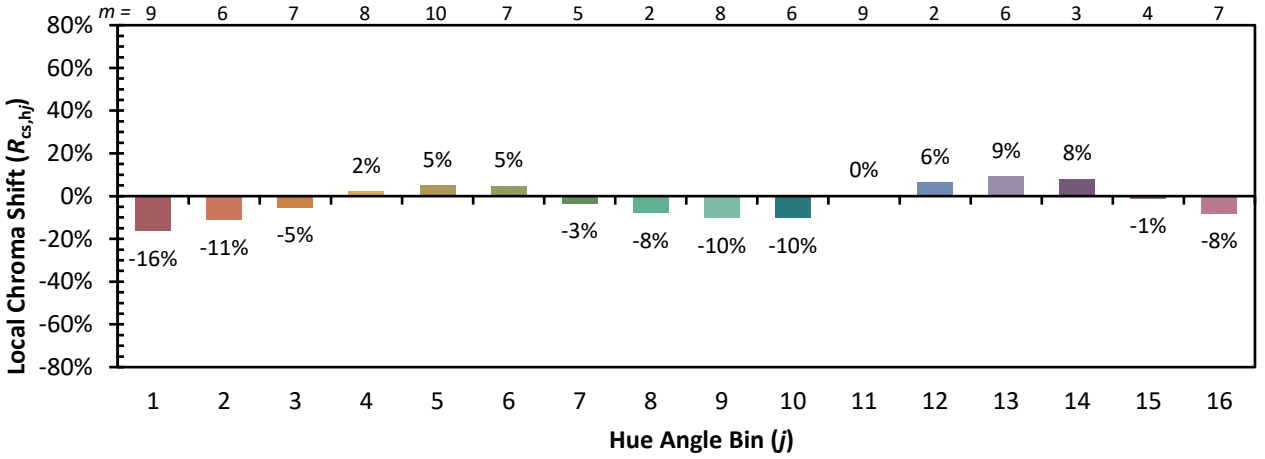
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

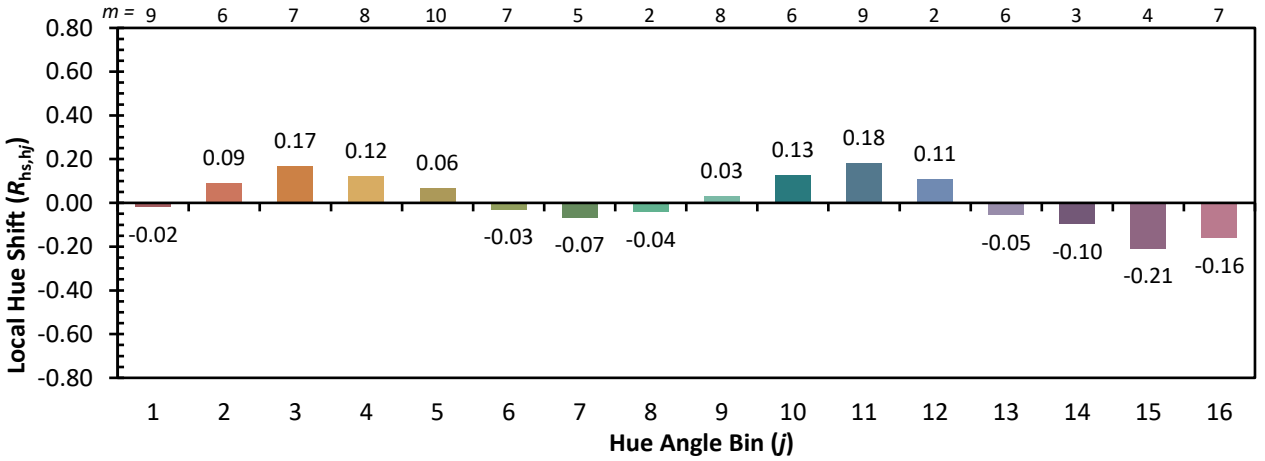


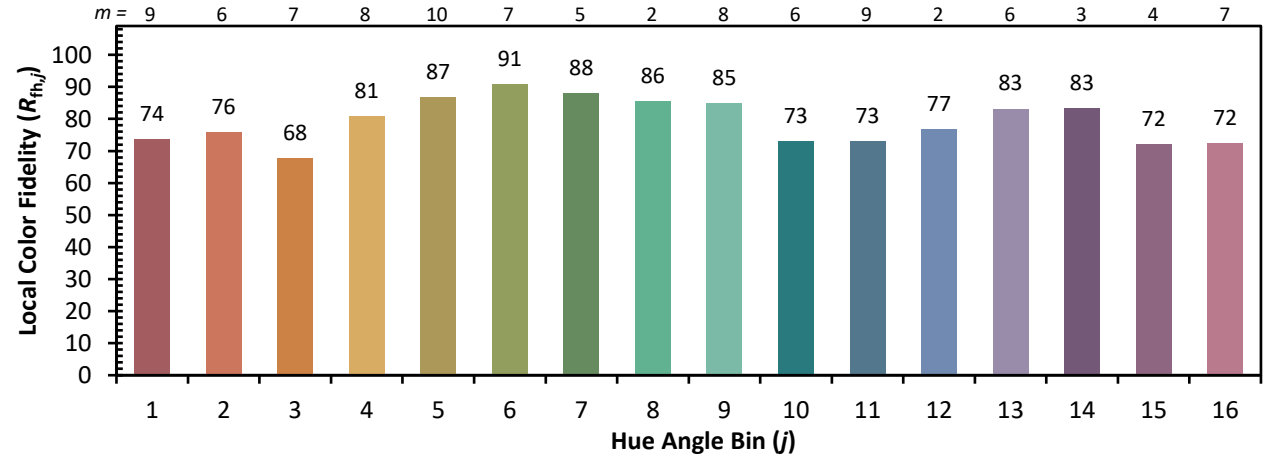
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Color Rendition by Hue-Angle Bin



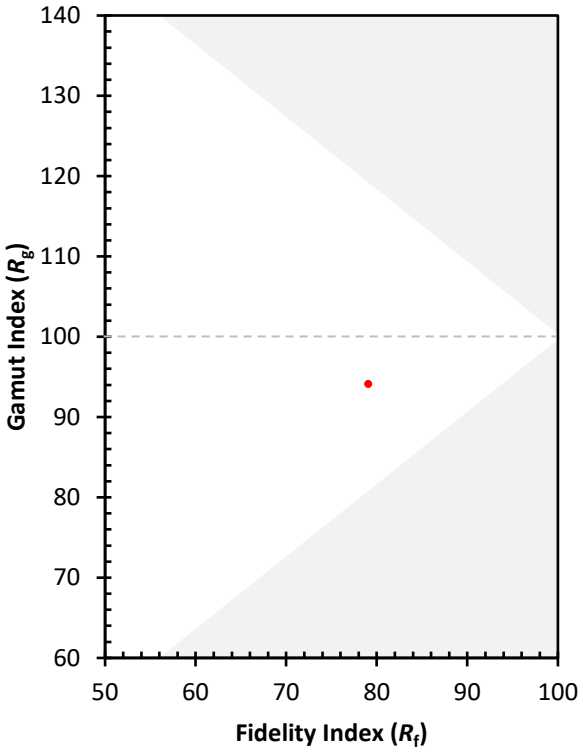


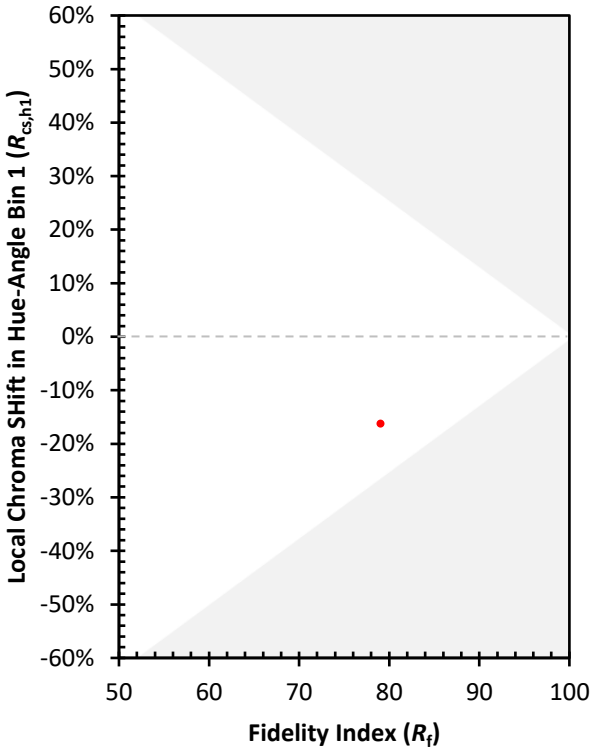


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Measure Comparisons





(END OF REPORT)