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: P1046441

Luminaire Tested: **FFX-CLB-30-740-U-FR-T4-UPLR**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046441
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-740-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:	4955.9 lumens
Efficiency:	N/A
Efficacy:	162.0 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):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

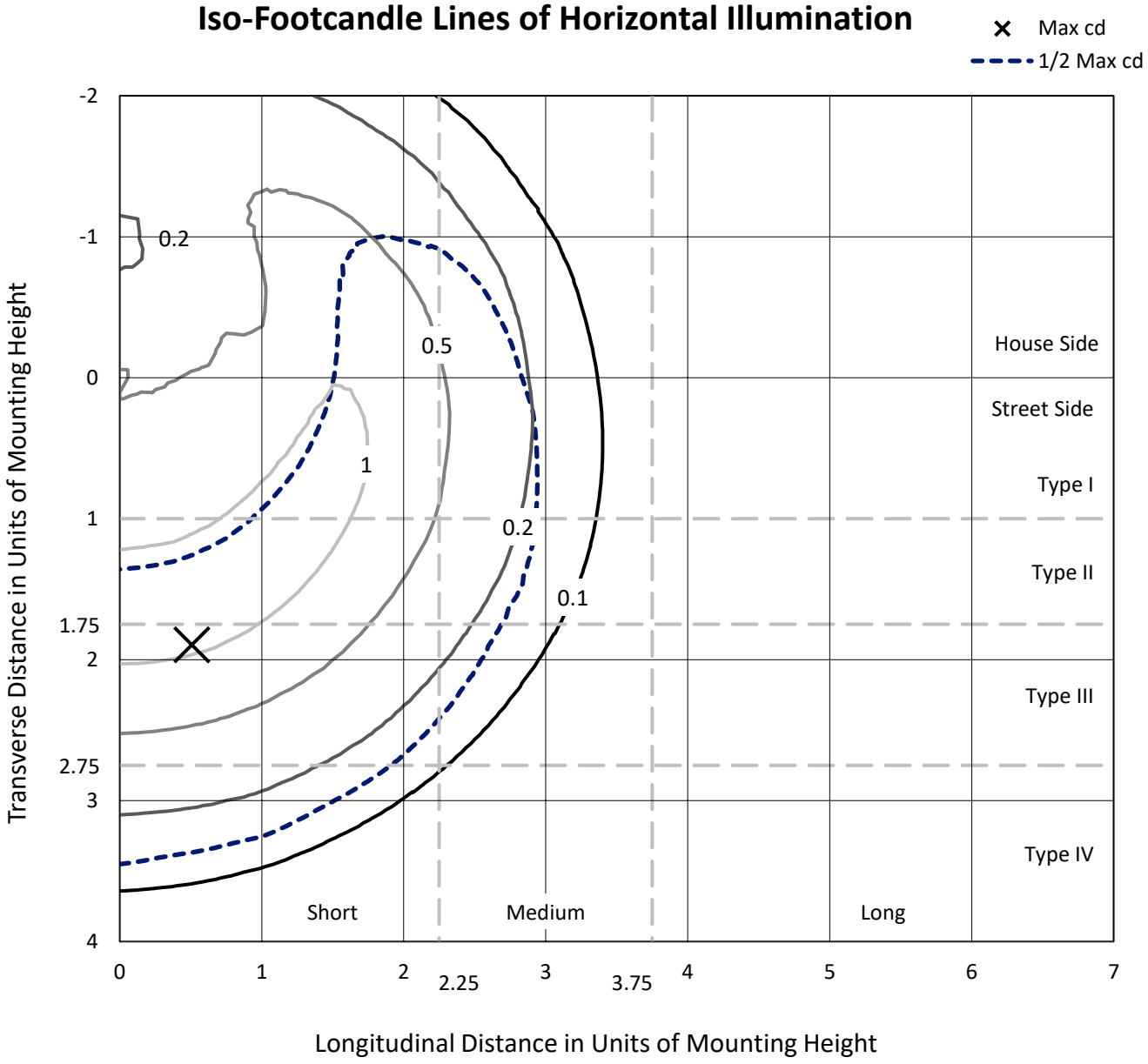


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Iso-Footcandle Lines of Horizontal Illumination



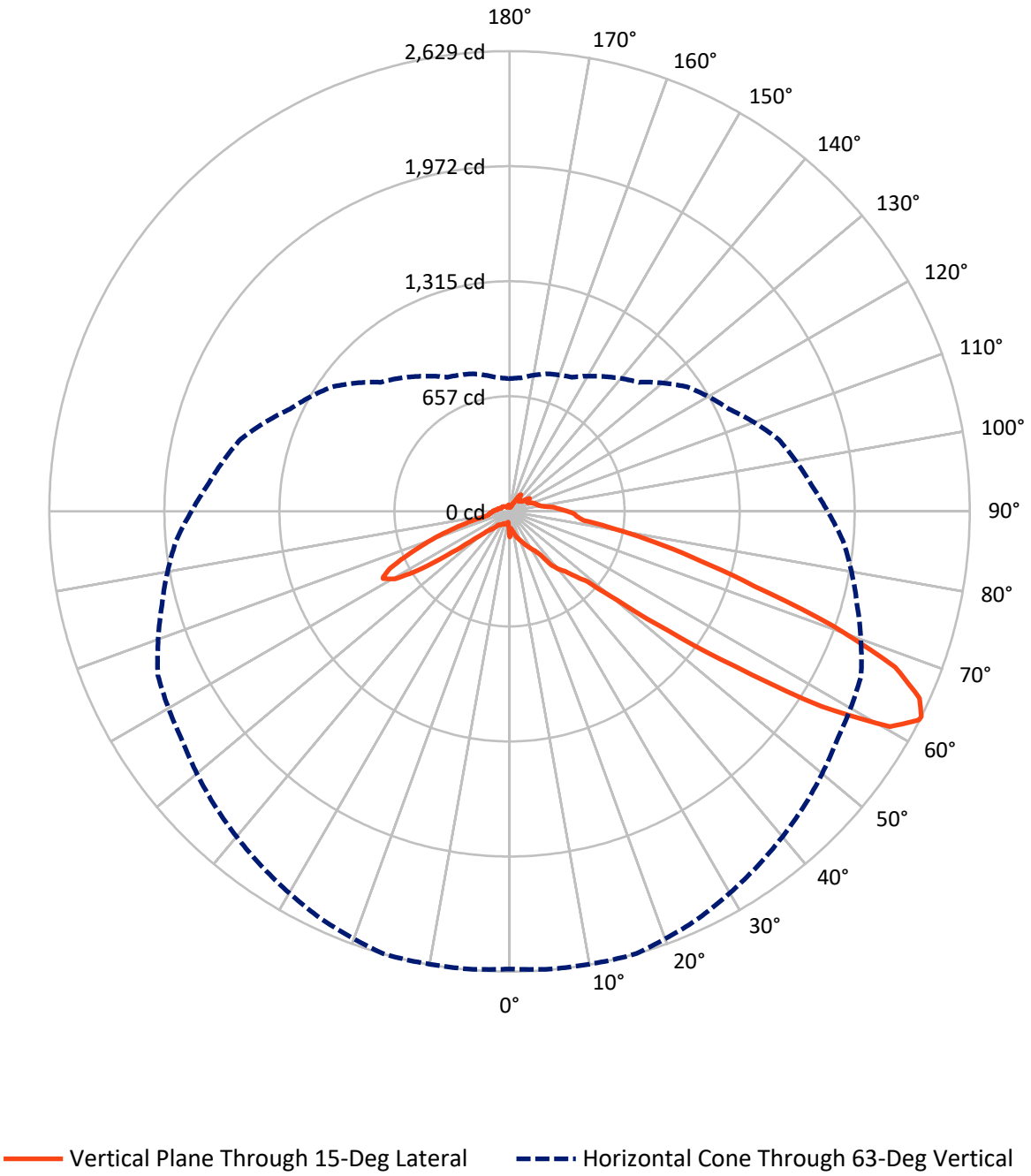
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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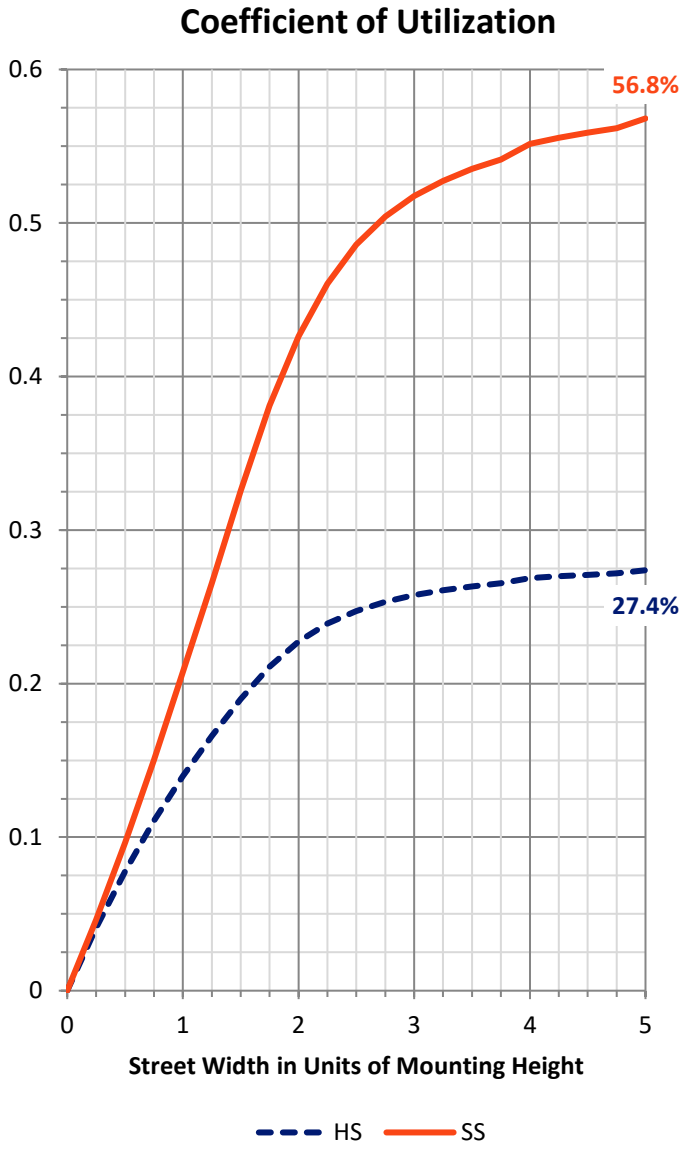
REPORT NUMBER: P1046441
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.6	228.4	1630.0
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	2934.8	391.2	3326.0
	% Fixture	59.2	7.9	67.1
Total	Lumens	4336.4	619.5	4955.9
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.2
10°-20°	32.5	0.7
20°-30°	70.3	1.4
30°-40°	144.5	2.9
40°-50°	298.0	6.0
50°-60°	980.4	19.8
60°-70°	1623.3	32.8
70°-80°	851.4	17.2
80°-90°	326.9	6.6
90°-100°	197.5	4.0
100°-110°	124.4	2.5
110°-120°	92.1	1.9
120°-130°	78.4	1.6
130°-140°	51.1	1.0
140°-150°	44.5	0.9
150°-160°	20.3	0.4
160°-170°	8.3	0.2
170°-180°	2.9	0.1
0°-90°	4336.4	87.5
0°-180°	4955.9	100.0



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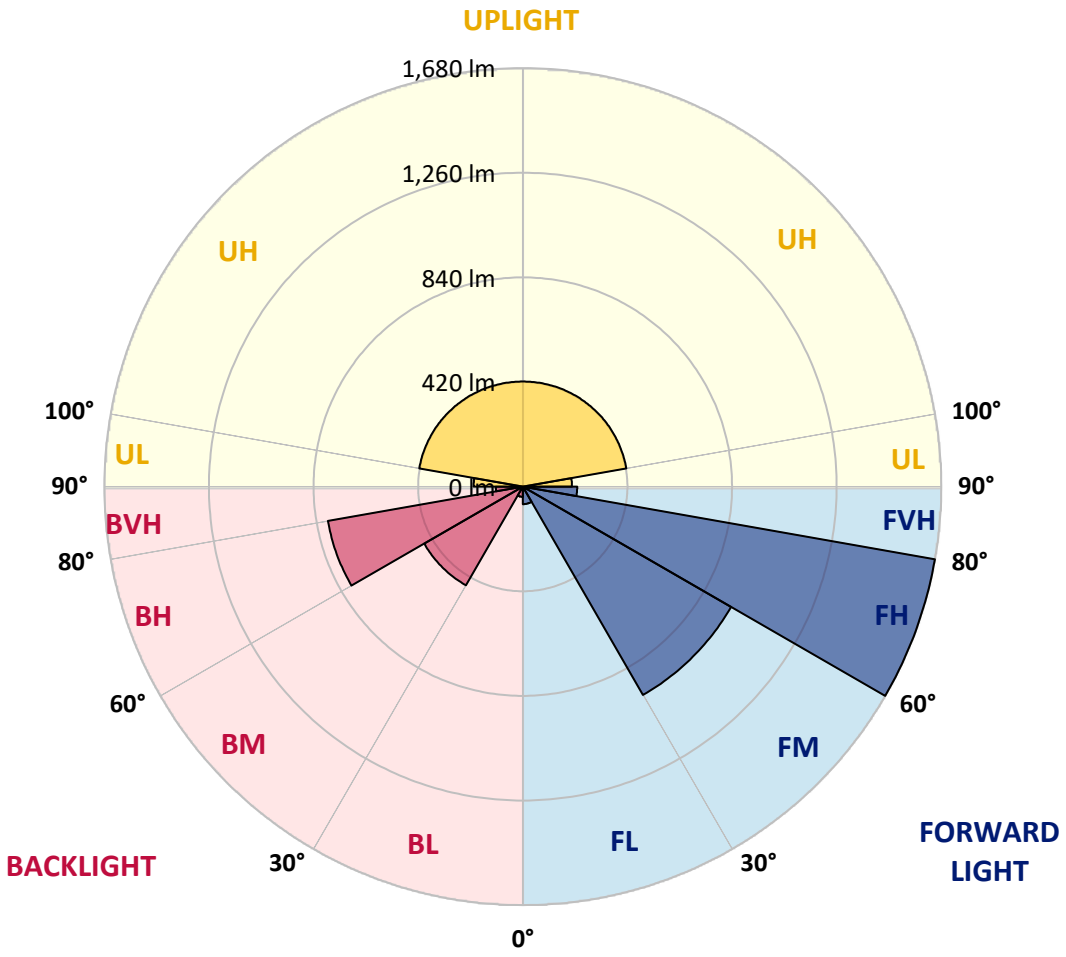
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	70.5	1.4			
FM	(30°-60°)	965.7	19.5			
FH	(60°-80°)	1680.1	33.9			G1/1800
FVH	(80°-90°)	218.4	4.4			G2/225
BL	(0°-30°)	41.2	0.8	B0/110		
BM	(30°-60°)	457.3	9.2	B1/1000		
BH	(60°-80°)	794.6	16.0	B2/1000		G2/1000
BVH	(80°-90°)	108.5	2.2			G2/225
UL	(90°-100°)	197.5	4.0		U3/500	
UH	(100°-180°)	422.0	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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	90.1	90.1	103.1	105.4	117.7	121.6	114.8	109.6	122.3	148.3	152.5
5°	97.9	99.9	99.5	99.2	99.9	111.6	123.6	118.1	96.9	77.1	77.1
7.5°	110.9	111.6	111.2	110.9	106.7	99.9	96.9	105.7	111.2	94.7	79.4
10°	120.0	119.4	119.0	118.7	119.4	122.0	121.0	110.3	99.5	94.0	90.7
12.5°	137.3	137.6	136.6	136.0	135.3	134.3	133.4	135.6	129.8	113.8	103.1
15°	150.3	150.3	152.9	152.2	152.2	149.0	144.4	137.9	130.1	125.9	116.4
17.5°	163.9	164.3	163.9	163.9	162.6	158.4	153.5	147.7	139.5	132.4	124.2
20°	177.3	177.3	176.9	176.6	176.3	173.0	166.9	159.1	151.6	144.7	136.3
22.5°	191.3	192.2	192.9	192.2	191.3	188.0	181.2	173.7	166.5	156.8	147.7
25°	211.1	211.4	210.8	210.1	208.8	204.6	199.4	191.6	182.8	172.4	160.4
27.5°	230.0	230.6	230.3	230.3	227.7	224.1	218.9	208.5	198.7	186.7	174.3
30°	251.4	250.8	249.2	249.5	247.8	244.9	239.1	230.0	217.6	203.3	189.6
32.5°	272.6	272.6	270.3	269.3	269.3	265.4	258.9	249.5	237.8	222.5	209.1
35°	295.7	301.5	307.4	309.6	309.6	304.1	296.3	284.0	273.9	257.9	241.3
37.5°	406.6	403.0	388.7	390.3	385.4	383.2	378.0	367.5	353.6	329.2	303.8
40°	445.6	445.0	434.2	432.9	430.6	423.2	417.6	410.5	405.6	376.3	338.3
42.5°	452.4	456.0	470.3	473.9	492.4	481.1	458.9	418.6	408.5	386.4	370.5
45°	529.2	530.5	530.5	531.2	526.3	517.8	514.9	489.2	469.0	437.2	407.2
47.5°	605.6	608.6	597.2	606.3	619.0	601.7	593.9	572.8	545.1	520.4	471.3
50°	783.2	794.6	796.9	797.2	802.7	801.4	789.7	760.5	732.8	676.2	621.6
52.5°	1112.1	1123.1	1128.0	1116.3	1099.1	1091.3	1094.2	1082.1	1018.1	957.2	846.3
55°	1541.4	1560.6	1560.6	1573.0	1567.8	1530.7	1528.4	1449.7	1346.3	1278.6	1182.0
57.5°	2115.8	2086.9	2103.1	2120.7	2084.9	2045.9	1987.7	1905.4	1754.1	1637.4	1497.5
60°	2541.6	2529.9	2497.7	2477.8	2388.4	2311.0	2265.1	2204.9	2090.1	1936.6	1749.6
62.5°	2619.7	2628.1	2625.8	2625.8	2554.3	2461.6	2368.9	2280.7	2209.5	2051.4	1903.4
63°	2614.8	2625.2	2629.4	2628.1	2563.7	2472.3	2380.3	2283.0	2217.0	2055.7	1912.5
65°	2573.1	2581.9	2574.4	2571.8	2531.2	2469.4	2366.0	2269.7	2209.5	2036.8	1913.8
67.5°	2406.0	2404.0	2376.0	2388.7	2363.0	2328.5	2231.9	2137.0	2095.3	1906.7	1793.5
70°	1943.1	1929.5	1960.0	1978.2	1950.3	1936.6	1821.8	1759.3	1705.7	1562.2	1470.8
72.5°	1485.5	1457.2	1462.4	1479.0	1443.8	1434.4	1385.3	1333.9	1308.2	1218.8	1117.3
75°	1164.8	1149.5	1121.2	1125.7	1096.8	1087.3	1082.1	1067.2	1057.1	982.6	882.1
77.5°	871.1	870.4	846.7	843.1	822.3	837.9	831.7	854.1	849.3	790.1	713.6
80°	609.5	606.0	612.1	609.9	605.0	614.1	604.3	616.7	616.7	578.0	545.8
82.5°	397.8	405.0	424.5	429.0	436.2	457.6	423.2	405.0	400.1	395.8	380.2
85°	394.9	396.8	388.4	389.3	386.1	378.0	384.1	387.1	382.2	358.8	324.3
87.5°	372.1	374.7	367.9	369.8	357.8	360.4	364.3	366.6	364.3	343.5	314.9
90°	313.6	316.5	322.7	322.7	323.6	324.3	318.1	321.7	319.4	299.6	278.7
92.5°	278.1	280.7	281.0	281.4	278.7	287.2	277.1	270.9	269.3	253.4	238.4
95°	254.4	251.4	250.8	251.4	250.1	249.8	243.3	238.7	236.8	224.1	209.5
97.5°	199.1	200.7	200.0	201.7	198.4	198.1	192.6	186.7	184.7	174.3	164.6
100°	174.7	174.3	175.0	175.3	173.4	171.1	167.2	163.0	160.7	152.9	143.4
102.5°	163.9	163.6	164.9	165.2	163.6	162.0	158.7	156.1	154.2	147.0	136.6
105°	157.1	156.1	157.8	157.8	154.2	153.2	150.9	150.6	149.3	140.8	130.8
107.5°	147.7	146.0	148.0	147.7	146.4	145.4	143.4	142.1	141.2	134.0	122.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	138.9	136.6	*137.6*	138.2	139.2	138.6	136.9	134.3	131.7	125.9	116.4
112.5°	122.6	123.9	*123.6*	123.6	124.6	124.9	122.0	120.3	118.7	114.2	108.0
115°	116.4	116.4	*116.4*	116.4	113.8	112.9	109.9	108.0	107.7	102.1	98.2
117.5°	111.6	112.2	*113.8*	114.8	118.1	116.1	109.6	105.4	103.8	101.5	97.3
120°	131.4	129.1	*126.9*	126.5	126.9	125.6	124.2	121.3	117.4	111.2	99.5
122.5°	140.8	135.0	*136.0*	135.6	133.4	134.3	134.7	135.0	132.4	122.6	104.4
125°	118.1	116.4	*117.4*	118.4	118.7	118.4	117.7	120.7	117.1	113.8	100.2
127.5°	94.3	93.7	*91.7*	91.4	90.7	91.1	91.1	92.0	88.8	85.5	84.9
130°	89.8	88.5	*88.8*	89.1	88.8	86.8	85.5	83.9	83.6	80.3	75.8
132.5°	81.3	82.0	*87.5*	88.1	92.0	89.8	82.9	78.4	79.0	80.7	79.0
135°	76.1	75.8	*80.0*	80.3	86.2	84.6	79.0	73.8	73.8	77.7	76.1
137.5°	77.7	78.4	*78.7*	79.0	78.7	78.4	78.1	75.8	74.2	73.8	69.9
140°	83.6	83.3	*80.0*	80.3	80.0	80.0	82.0	83.6	78.1	73.2	66.7
142.5°	87.5	88.5	*87.2*	88.8	91.7	89.1	85.9	81.6	78.4	75.1	71.2
145°	118.7	116.4	*115.5*	114.8	112.9	107.3	104.1	99.9	96.0	90.7	84.2
147.5°	107.7	108.3	*106.4*	107.0	104.4	102.5	101.8	102.1	100.8	97.9	91.1
150°	85.5	86.2	*84.2*	83.3	82.3	82.3	82.3	82.9	81.3	79.4	76.1
152.5°	59.8	59.2	*58.5*	58.2	57.6	56.9	56.9	57.2	55.6	55.0	52.4
155°	55.0	54.6	*52.0*	51.4	52.0	52.7	53.0	52.0	50.7	49.4	45.9
157.5°	42.9	42.0	*41.6*	42.3	42.3	42.0	41.3	42.0	40.7	40.3	39.7
160°	35.1	34.8	*35.1*	35.1	35.5	35.5	35.1	35.1	34.5	34.8	34.8
162.5°	29.9	29.9	*29.9*	29.6	30.2	30.6	30.2	30.2	30.6	31.6	32.2
165°	25.7	25.7	*26.0*	26.0	26.3	26.3	26.7	27.0	27.6	29.9	31.9
167.5°	24.1	24.1	*24.4*	24.4	24.7	25.0	25.7	27.0	28.9	31.6	32.5
170°	23.7	23.7	*23.7*	23.7	24.1	24.4	25.7	27.6	29.9	31.6	30.6
172.5°	24.7	24.7	*25.0*	25.0	25.0	26.3	27.3	28.9	30.2	30.6	29.6
175°	25.7	25.4	*25.7*	25.7	26.0	27.0	28.3	28.9	29.6	29.9	30.2
177.5°	25.0	25.0	*25.0*	25.4	25.4	25.7	26.3	26.7	27.3	28.0	28.9
180°	24.4	24.4	*24.4*	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	152.5	148.3	115.5	98.9	112.9	140.2	142.8	123.6	96.0	66.7	60.8
5°	81.3	85.9	96.0	95.6	89.1	83.3	76.1	71.6	79.0	75.8	77.7
7.5°	73.5	69.3	70.9	82.9	81.0	61.5	55.6	54.3	60.8	75.8	74.2
10°	89.4	88.1	83.3	73.5	70.3	72.9	75.1	73.5	67.7	58.9	57.6
12.5°	101.2	99.5	100.2	106.4	98.9	82.0	72.5	69.6	72.9	85.9	88.5
15°	112.5	109.6	105.4	96.6	89.4	84.9	79.4	73.5	75.5	71.9	70.6
17.5°	120.3	115.8	107.0	100.5	93.4	87.5	82.6	76.4	72.2	71.2	71.6
20°	130.8	125.9	116.4	109.0	100.2	92.4	83.9	77.4	73.2	71.6	71.6
22.5°	142.8	136.9	126.2	115.8	106.0	96.0	85.9	78.7	74.8	73.2	72.5
25°	155.5	149.6	136.3	125.2	112.9	101.8	91.4	82.3	78.1	76.1	74.5
27.5°	168.5	161.3	148.0	134.3	121.0	108.0	96.9	87.5	81.6	78.4	78.7
30°	182.8	176.9	162.0	146.4	129.8	114.5	103.8	93.0	85.9	82.3	82.6
32.5°	202.0	192.6	174.7	156.8	140.5	123.6	109.9	97.6	89.8	87.5	87.8
35°	233.9	221.8	200.0	175.6	153.8	134.0	116.8	102.1	93.0	89.4	89.1
37.5°	291.4	275.2	250.1	221.5	190.0	157.8	129.8	107.3	96.0	90.1	89.1
40°	319.4	297.3	265.7	241.0	219.6	191.9	160.0	126.2	100.8	93.4	92.4
42.5°	356.8	338.3	297.3	249.2	220.5	197.4	175.0	153.2	121.6	102.1	98.6
45°	392.9	376.3	344.1	297.0	254.4	218.3	184.7	161.0	141.5	121.6	120.0
47.5°	453.7	436.2	382.5	340.5	295.7	254.7	219.6	180.5	155.1	141.2	141.2
50°	606.3	574.1	521.1	456.7	384.5	318.1	268.3	220.5	190.0	168.8	167.8
52.5°	819.3	773.8	695.7	624.5	539.3	462.5	385.1	301.8	257.3	226.7	226.4
55°	1127.0	1080.5	976.1	839.2	734.8	643.0	562.7	471.3	401.0	351.6	347.7
57.5°	1455.2	1416.2	1309.8	1139.7	975.1	812.8	715.6	642.7	608.9	574.4	567.3
60°	1667.9	1600.9	1504.0	1341.7	1182.3	975.5	854.8	771.2	759.8	752.3	742.9
62.5°	1801.9	1722.9	1578.8	1384.3	1237.9	1042.1	934.2	845.0	818.4	778.4	767.0
63°	*1817.2*	*1731.4*	*1590.9*	*1383.3*	*1239.6*	*1043.1*	*940.0*	*845.0*	*813.8*	*765.7*	*758.2*
65°	1810.1	1730.4	1590.2	1363.2	1201.8	1023.9	923.1	806.3	756.6	692.8	680.1
67.5°	1700.8	1615.9	1483.8	1260.7	1115.0	933.5	822.6	698.7	623.2	560.8	546.1
70°	1384.6	1331.9	1215.8	1022.9	912.4	770.9	673.6	576.4	494.7	429.0	412.4
72.5°	1055.1	999.9	912.7	787.5	705.8	608.6	516.5	441.7	374.4	330.8	332.1
75°	837.2	784.5	712.6	630.4	563.7	477.2	386.1	311.9	264.1	238.1	235.8
77.5°	674.3	637.8	575.1	499.3	441.7	351.3	270.3	205.6	170.1	155.1	150.9
80°	519.8	494.4	447.6	380.9	321.0	246.9	184.1	145.4	126.5	113.8	111.6
82.5°	369.8	354.5	315.5	269.0	228.3	189.6	161.3	136.0	116.4	105.7	102.5
85°	308.7	294.4	269.6	240.7	214.7	186.4	156.5	129.5	111.2	102.8	98.6
87.5°	299.6	286.2	262.5	231.6	203.3	172.7	142.5	117.1	104.1	96.0	93.4
90°	268.3	258.3	237.4	209.1	180.8	149.6	123.3	105.4	95.3	88.8	85.9
92.5°	231.3	222.5	205.2	181.5	157.8	135.3	115.1	100.2	90.1	83.6	81.3
95°	201.0	195.5	181.2	161.0	143.8	125.2	108.0	93.7	83.3	77.4	75.1
97.5°	160.4	153.8	143.4	129.5	116.4	103.4	90.7	81.0	73.5	69.6	67.7
100°	139.5	135.3	125.9	114.8	103.8	92.4	82.6	75.1	70.3	67.0	65.4
102.5°	131.4	128.5	119.7	108.6	98.2	87.2	77.4	70.6	67.0	64.1	62.8
105°	123.9	121.6	114.8	104.7	94.7	82.6	71.6	65.7	62.5	60.5	59.5
107.5°	116.1	113.5	107.0	97.3	88.5	78.1	68.3	61.1	56.9	54.6	54.3

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

Scaled Data Report

REPORT NUMBER: P1046441
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	109.6	107.7	100.5	92.7	84.2	74.5	66.0	58.5	53.7	51.1	50.7
112.5°	102.8	100.5	93.4	85.9	78.7	70.3	62.8	56.3	51.7	49.1	48.8
115°	93.7	91.7	86.5	79.4	73.5	65.4	59.2	53.3	49.8	47.2	46.8
117.5°	94.7	89.1	82.0	75.5	70.3	64.4	58.9	54.3	48.8	45.9	45.9
120°	96.0	90.7	83.6	78.1	75.1	70.6	62.1	55.6	48.1	45.2	44.9
122.5°	94.7	95.3	91.4	85.9	80.0	72.2	61.8	54.6	47.2	44.9	45.2
125°	91.7	94.7	89.1	81.6	73.8	66.4	57.6	51.1	46.5	44.9	44.6
127.5°	82.9	82.3	75.1	69.6	64.1	57.9	52.4	48.5	45.2	43.3	42.3
130°	73.2	72.9	69.9	65.4	59.8	54.3	49.4	46.8	43.6	41.0	40.3
132.5°	77.1	76.1	69.9	62.5	56.3	51.7	48.5	45.5	41.0	38.1	37.7
135°	72.9	72.2	66.0	58.5	53.0	50.7	48.5	44.2	38.7	36.4	36.1
137.5°	66.7	64.1	58.9	54.3	51.7	51.1	48.1	43.3	38.1	35.5	35.1
140°	63.4	61.5	57.6	54.6	51.7	48.1	43.9	39.4	35.8	33.8	33.5
142.5°	67.3	66.7	60.8	55.6	51.1	46.8	42.3	39.4	35.5	32.9	32.5
145°	79.7	76.4	69.3	62.1	58.2	52.7	46.8	40.7	33.5	29.6	28.6
147.5°	87.2	84.2	77.1	69.3	60.8	52.0	42.9	35.1	29.6	26.7	26.0
150°	72.2	70.9	66.4	59.2	52.0	43.9	36.4	30.9	27.3	25.4	25.4
152.5°	50.7	50.4	48.5	44.2	39.7	35.1	31.2	28.0	26.0	24.7	24.7
155°	44.9	44.2	42.9	39.0	35.8	31.9	28.9	27.0	25.7	24.7	24.7
157.5°	38.7	38.1	37.7	34.8	32.2	29.6	27.3	25.7	24.7	24.1	23.7
160°	34.5	33.5	32.5	30.9	29.3	28.0	27.0	25.7	24.7	24.1	24.1
162.5°	32.2	31.6	29.9	28.6	28.0	28.0	28.3	27.6	25.7	24.7	24.4
165°	32.2	31.2	28.9	27.6	27.6	29.3	30.9	29.6	28.0	26.0	25.7
167.5°	32.5	31.9	29.6	28.6	29.6	31.6	33.2	32.9	30.6	28.9	28.9
170°	30.2	29.9	30.2	31.2	32.2	32.5	33.2	32.9	33.5	35.8	35.8
172.5°	29.3	29.6	31.2	32.9	34.8	34.8	33.2	32.9	35.8	39.0	39.7
175°	30.6	31.2	32.9	34.8	36.4	36.4	34.8	35.1	38.1	41.0	41.6
177.5°	29.3	29.6	30.2	29.9	30.6	28.9	29.6	28.9	29.9	29.9	29.9
180°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4

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

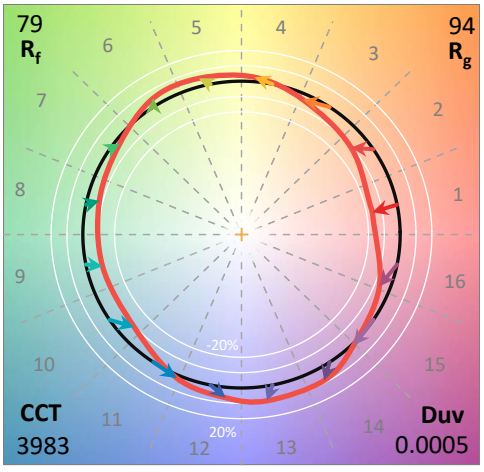
Test Information

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

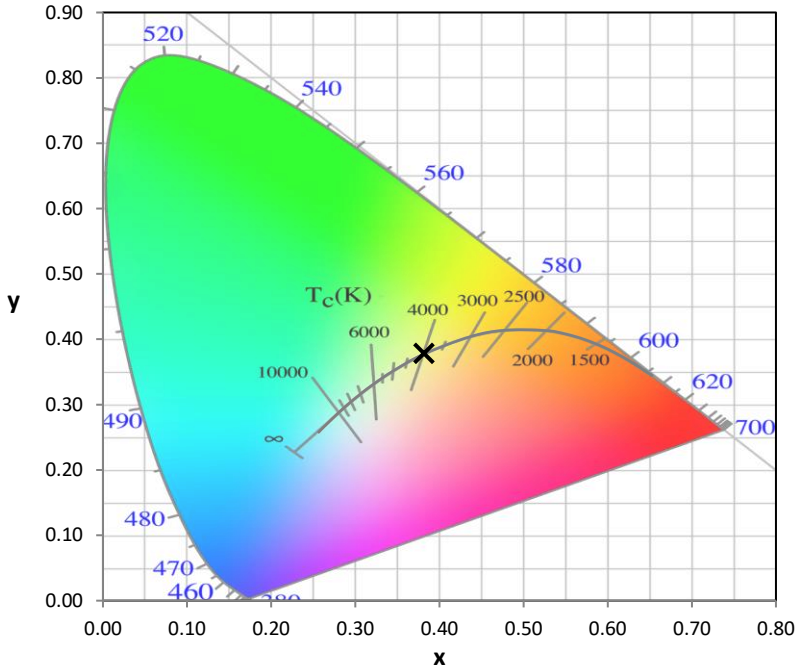
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

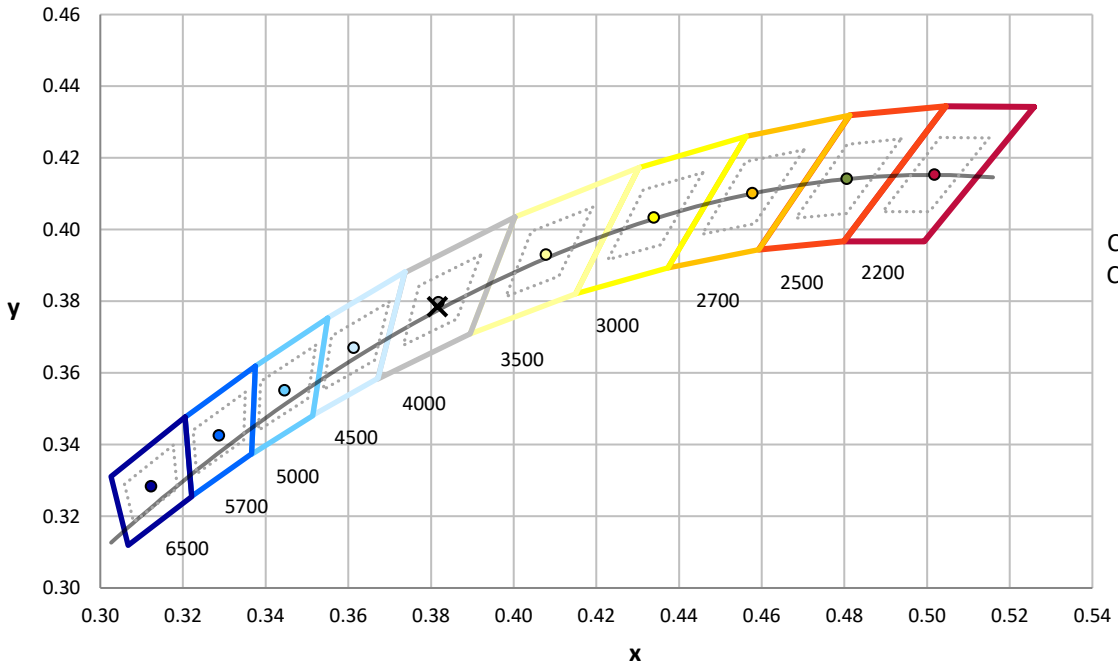
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

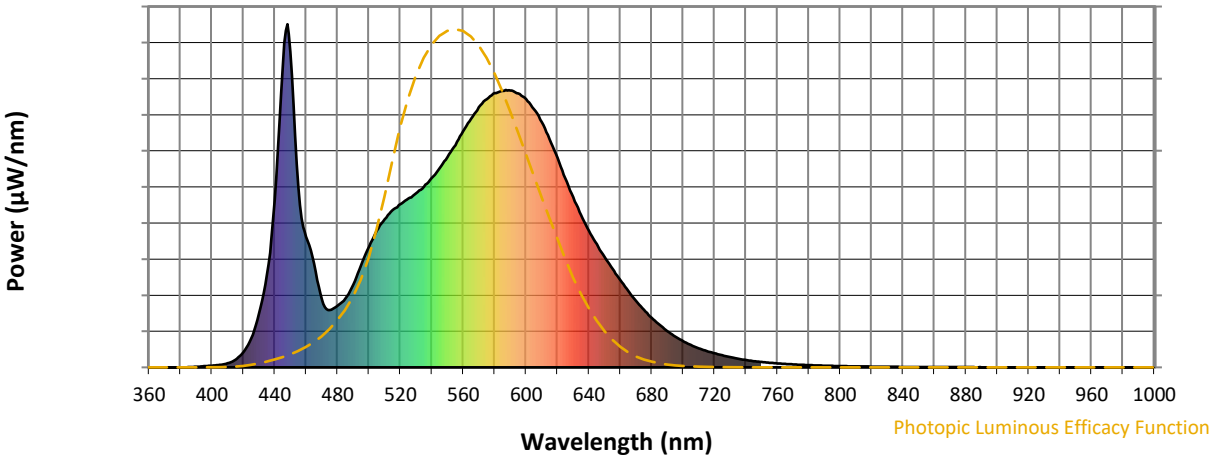


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

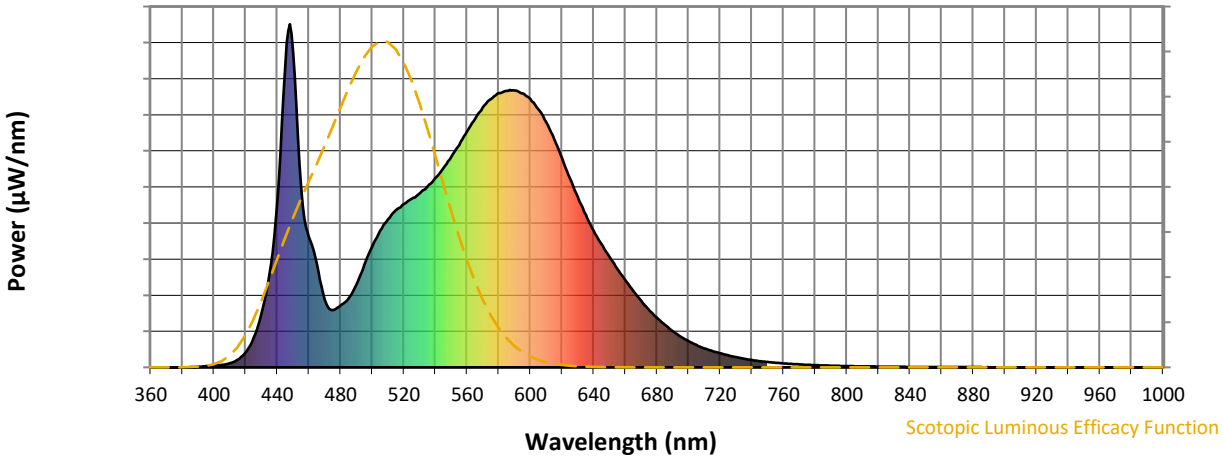


Photopic Lumens: NR

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

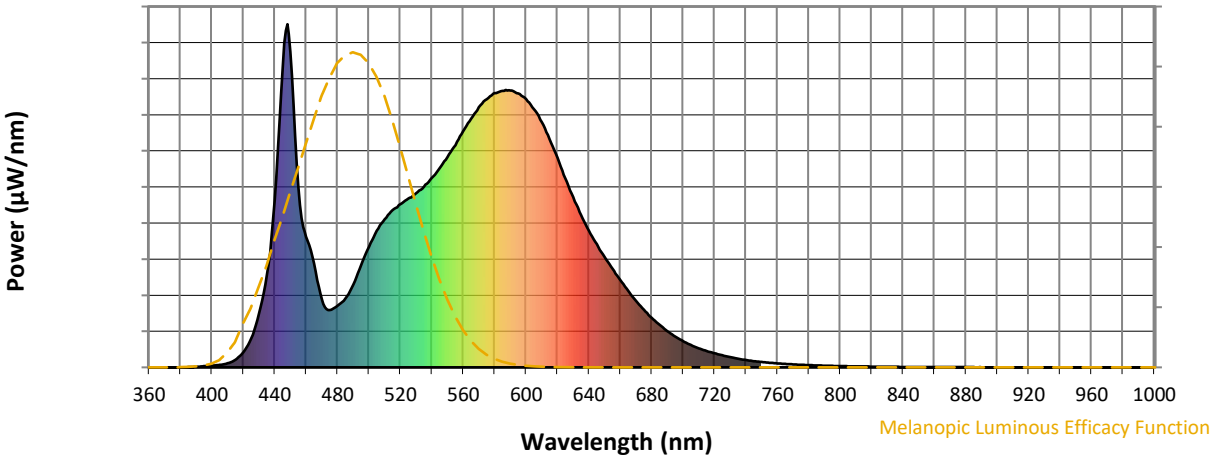


Scotopic Lumens: NR **S/P: 1.61**

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			

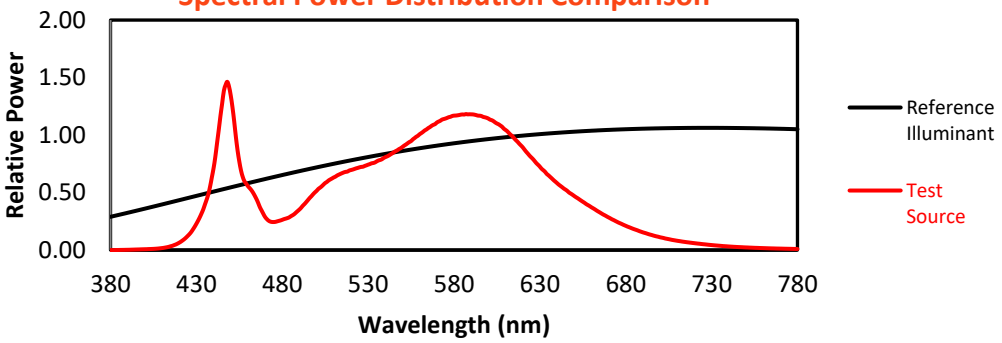
REPORT NUMBER: SP1-2501-332-11

TM-30-18

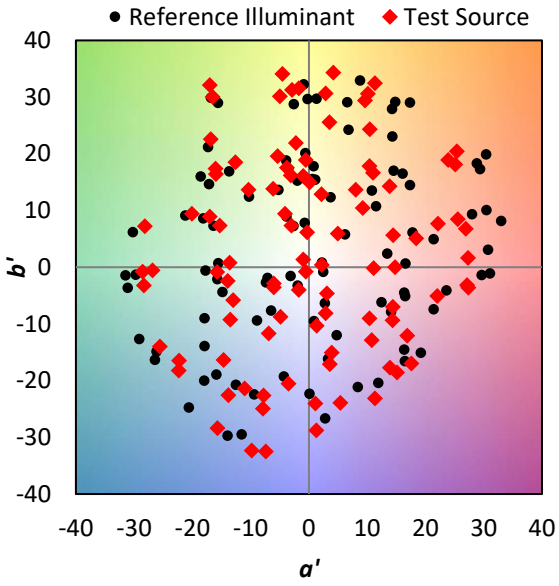
Summary

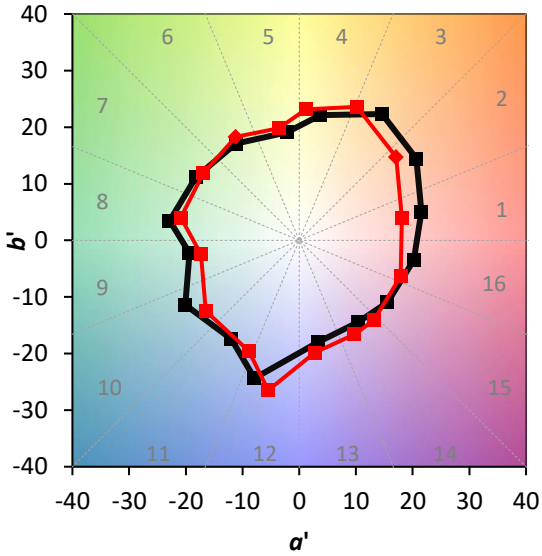
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

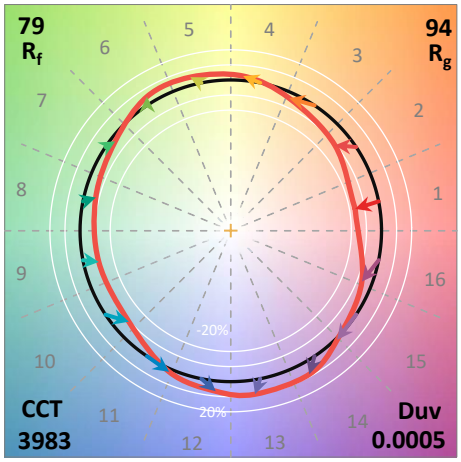
Spectral Power Distribution Comparison

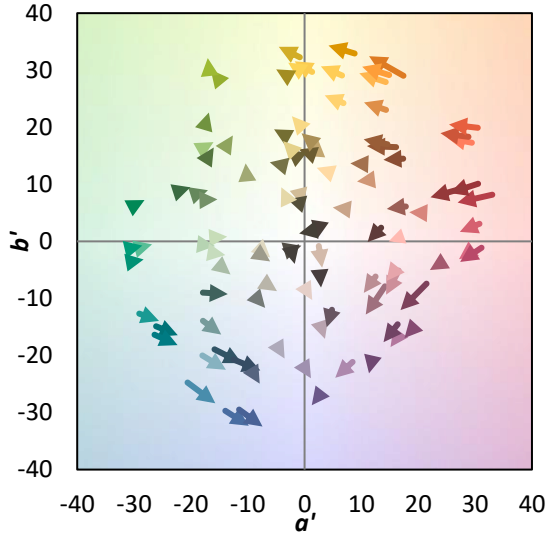


Color Vector Graphics







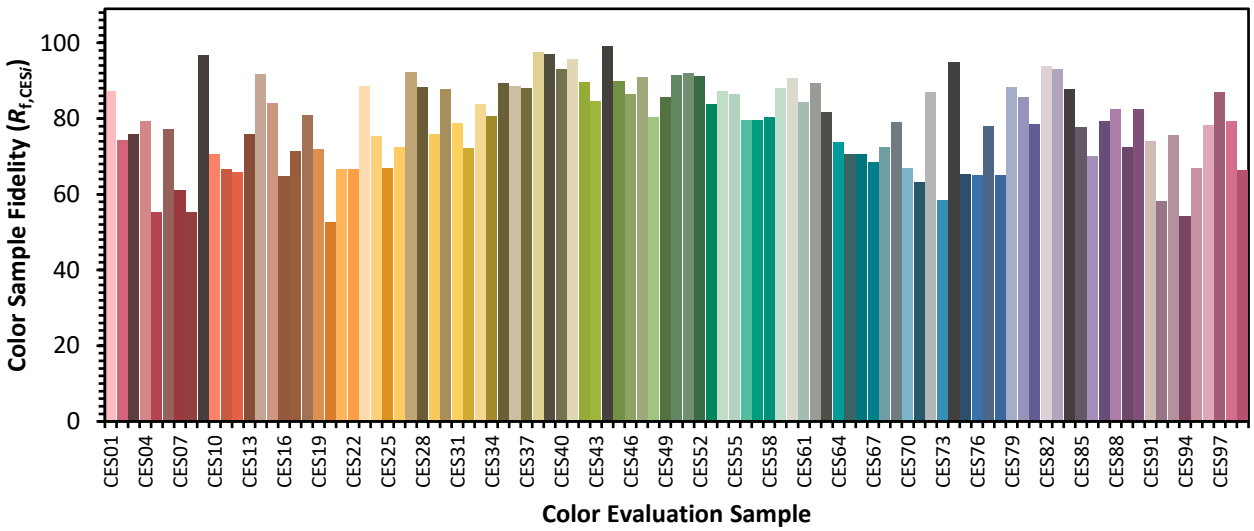


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

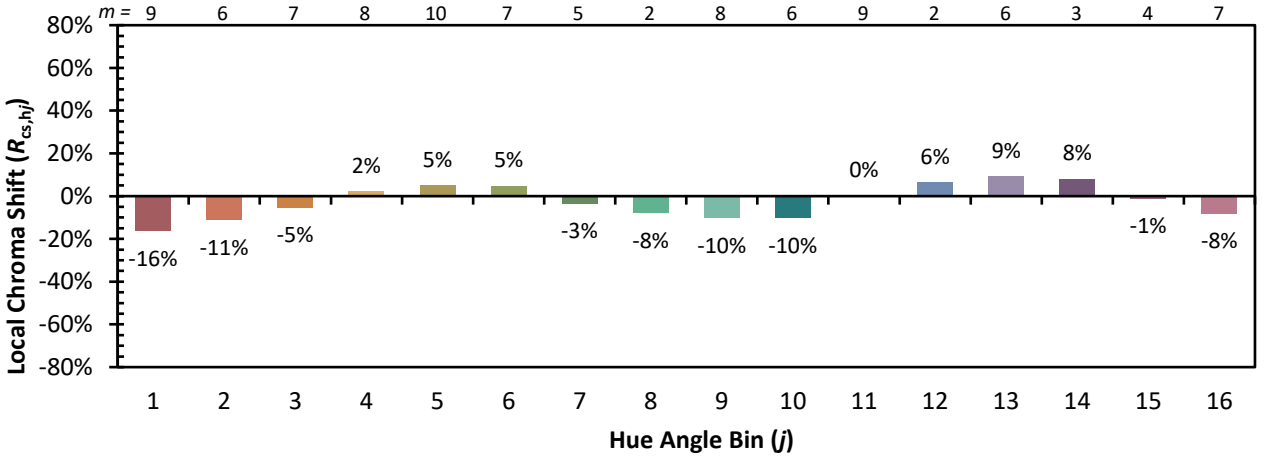
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 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	

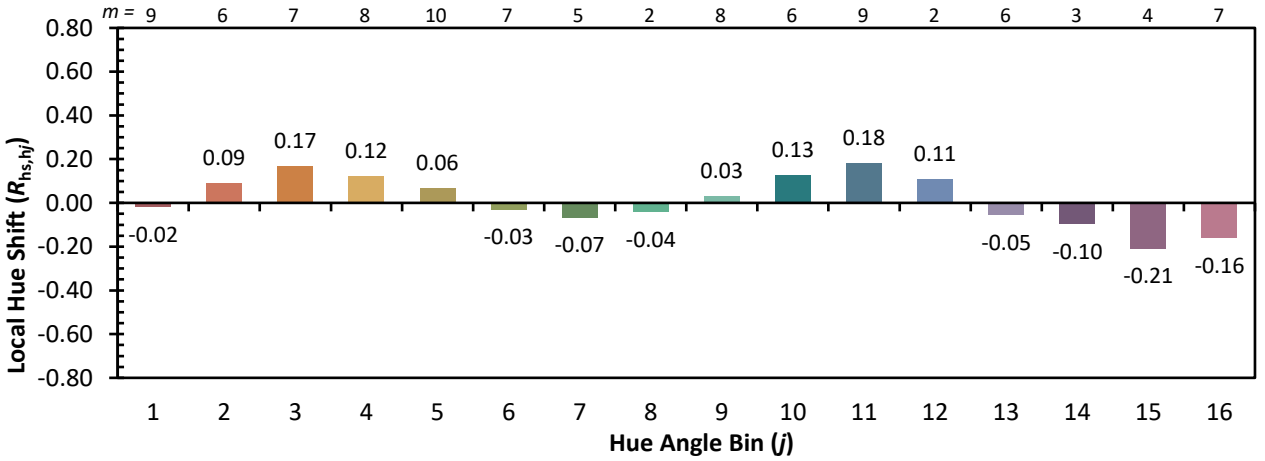


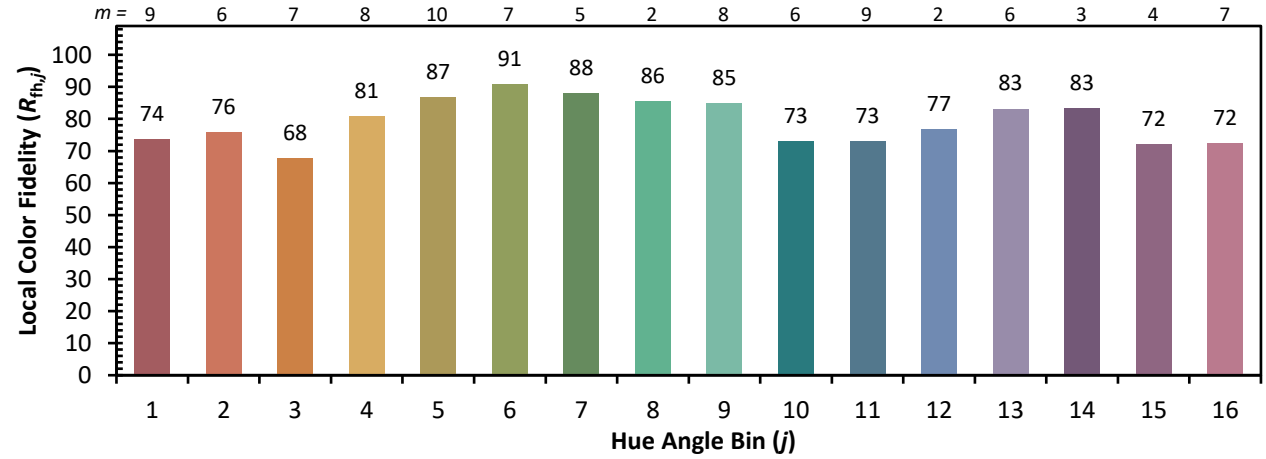
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Color Rendition by Hue-Angle Bin



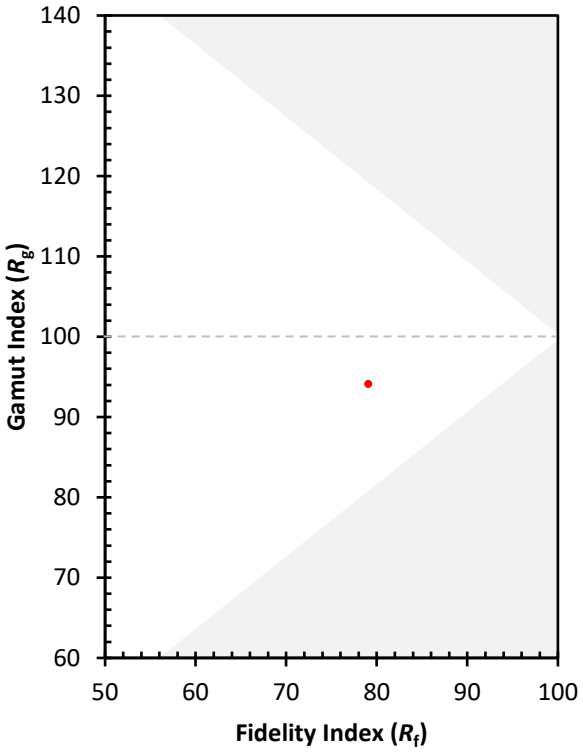


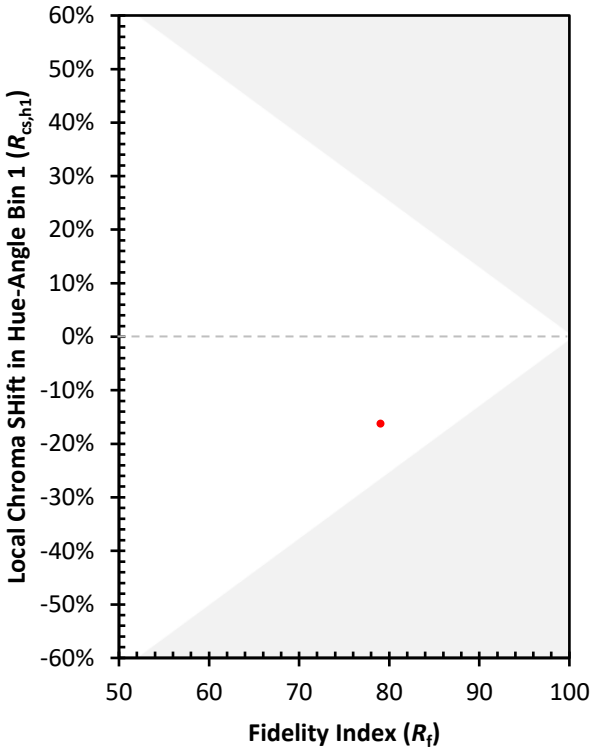


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Measure Comparisons





(END OF REPORT)