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: P1046241

Luminaire Tested: **FFX-CLB-50-727-U-FR-T4-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046241
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-727-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6718.7 lumens
Efficiency:	N/A
Efficacy:	132.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

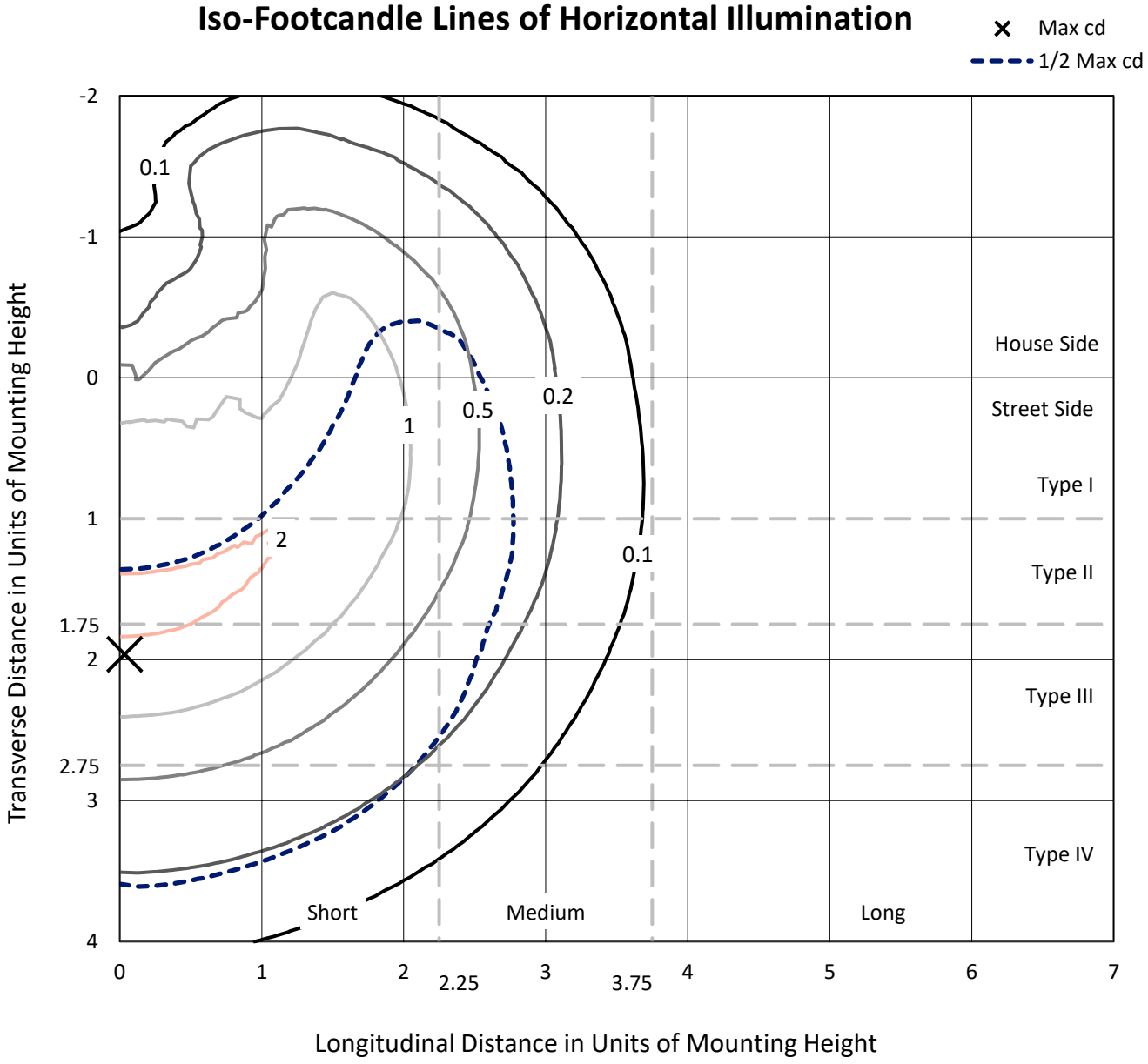


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Iso-Footcandle Lines of Horizontal Illumination



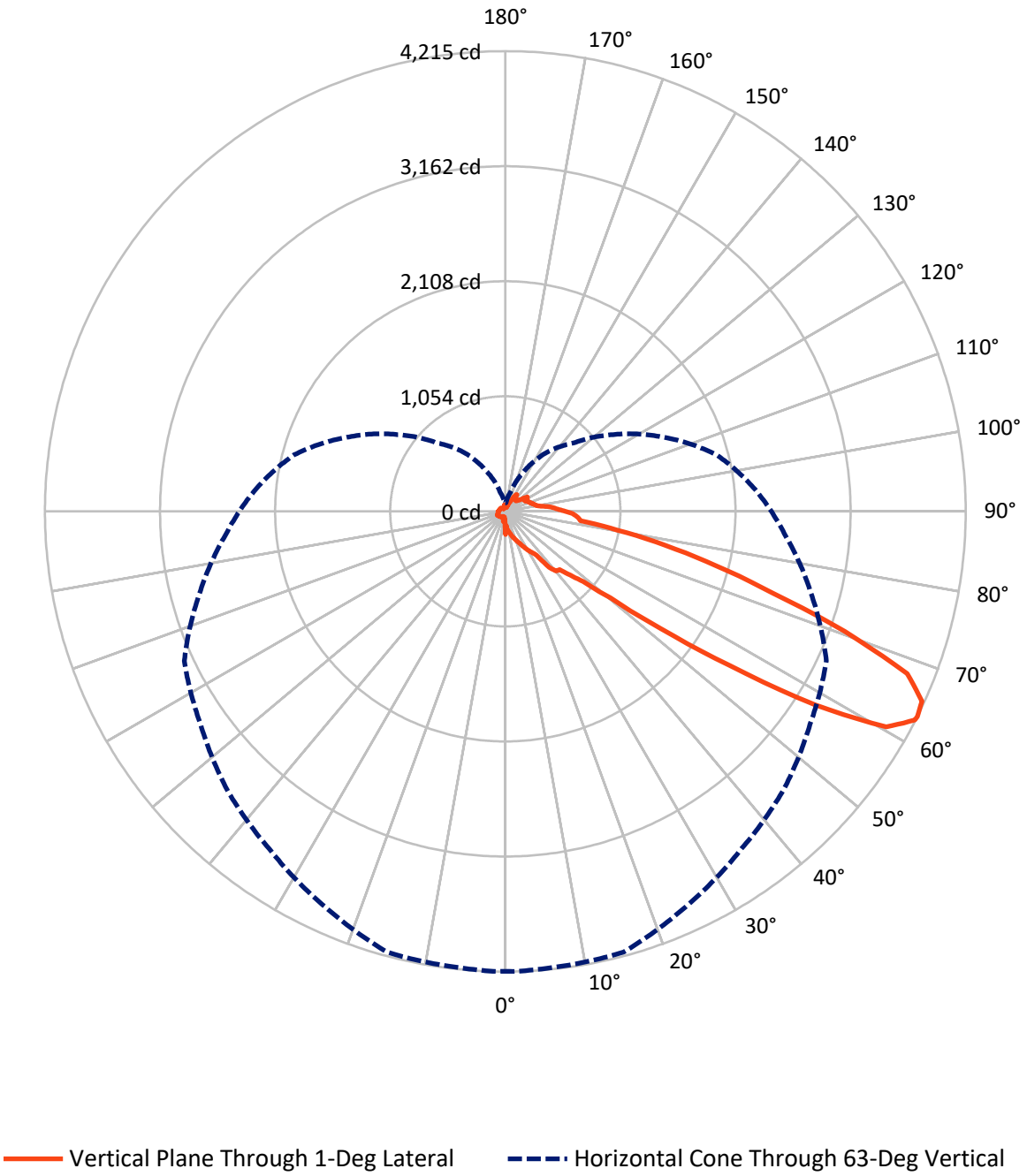
Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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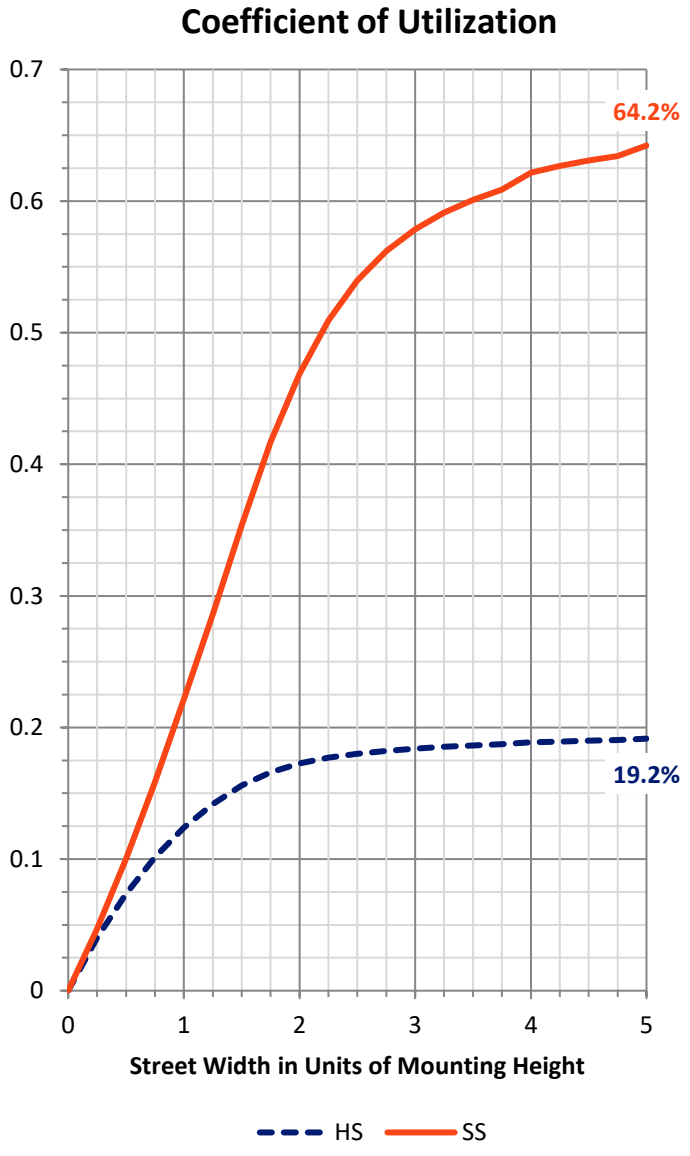
REPORT NUMBER: P1046241
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.3	266.5	1596.7
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	4506.7	615.2	5121.9
	% Fixture	67.1	9.2	76.2
Total	Lumens	5837.0	881.7	6718.7
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	0.2
10°-20°	44.2	0.7
20°-30°	97.4	1.5
30°-40°	199.5	3.0
40°-50°	402.9	6.0
50°-60°	1300.5	19.4
60°-70°	2142.6	31.9
70°-80°	1181.1	17.6
80°-90°	456.3	6.8
90°-100°	273.6	4.1
100°-110°	174.3	2.6
110°-120°	133.3	2.0
120°-130°	113.7	1.7
130°-140°	76.3	1.1
140°-150°	64.9	1.0
150°-160°	29.6	0.4
160°-170°	12.0	0.2
170°-180°	4.1	0.1
0°-90°	5837.0	86.9
0°-180°	6718.7	100.0



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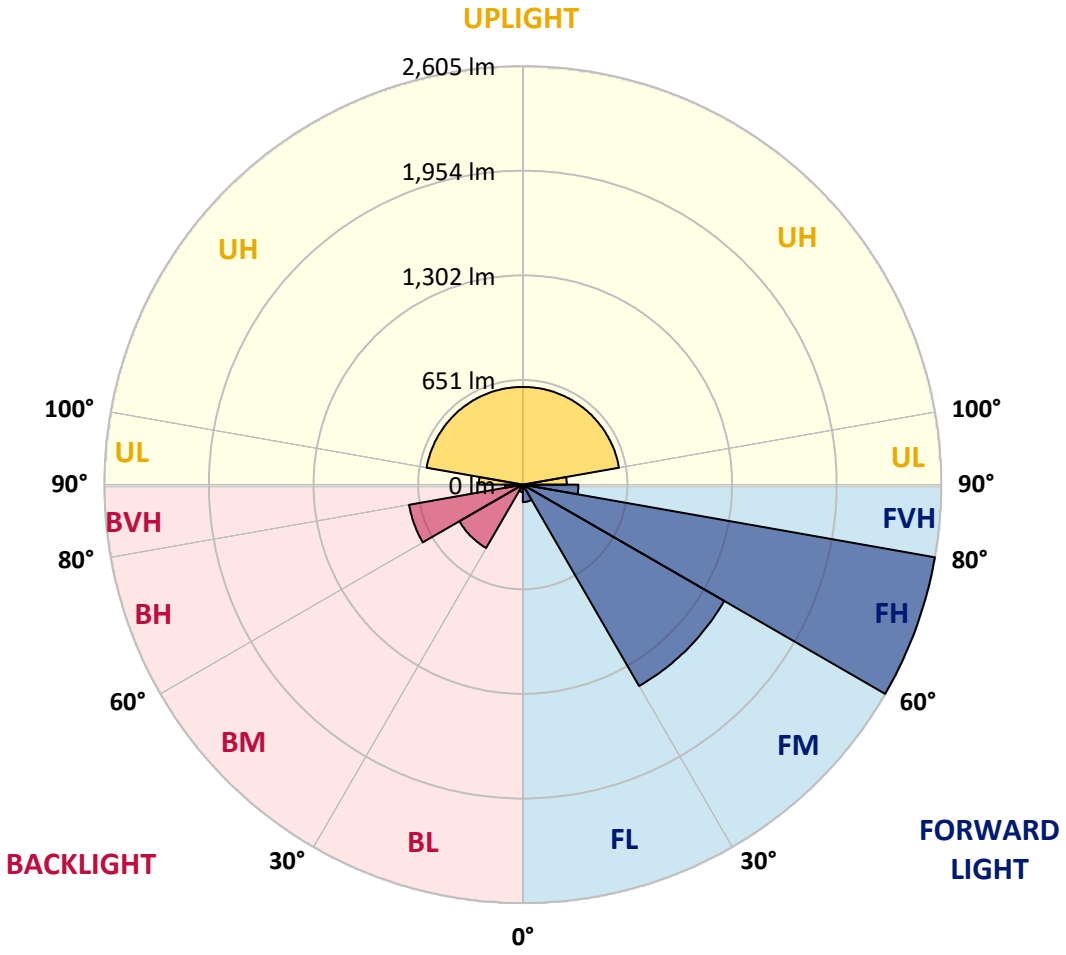
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	108.8	1.6			
FM	(30°-60°)	1447.5	21.5			
FH	(60°-80°)	2604.7	38.8			G2/5000
FVH	(80°-90°)	345.7	5.1			G3/500
BL	(0°-30°)	45.4	0.7	B0/110		
BM	(30°-60°)	455.4	6.8	B1/1000		
BH	(60°-80°)	718.9	10.7	B2/1000		G2/1000
BVH	(80°-90°)	110.5	1.6			G2/225
UL	(90°-100°)	273.6	4.1		U3/500	
UH	(100°-180°)	608.1	9.1		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7
2.5°	131.4	130.0	136.2	155.3	176.4	183.0	169.2	163.9	179.2	214.6	218.4
5°	151.5	153.9	152.5	154.9	156.8	171.6	185.0	171.1	138.6	113.3	115.2
7.5°	178.7	178.3	178.3	176.4	166.8	151.5	147.2	158.2	158.7	132.9	112.8
10°	190.7	190.2	190.2	188.3	186.4	187.8	183.0	163.0	146.7	136.2	129.5
12.5°	216.0	215.1	214.6	213.6	210.3	206.5	203.1	204.1	190.2	163.9	146.7
15°	237.1	236.1	237.1	238.0	235.6	228.9	219.4	206.0	193.6	182.6	167.3
17.5°	260.0	259.5	259.0	258.1	254.7	245.7	234.2	221.8	207.9	192.6	178.3
20°	282.0	281.0	281.5	282.0	280.5	269.6	258.1	242.8	228.0	213.2	196.4
22.5°	308.3	308.3	306.8	306.8	305.4	298.7	284.4	266.7	251.4	232.8	214.1
25°	342.2	340.8	340.8	339.3	333.6	326.4	316.4	296.3	278.2	260.5	235.6
27.5°	375.7	374.2	374.2	373.7	366.6	357.0	340.3	321.2	304.0	281.5	251.4
30°	413.9	412.9	413.4	408.2	402.4	389.0	368.0	346.0	323.6	297.3	268.1
32.5°	452.6	449.7	449.3	443.5	435.9	419.6	396.2	375.2	351.8	321.2	296.8
35°	498.0	491.8	498.5	497.1	496.1	478.9	452.1	427.8	400.0	372.3	346.0
37.5°	648.1	650.9	649.5	630.4	615.1	591.7	579.7	551.1	512.8	478.9	429.2
40°	718.8	717.9	715.5	694.4	680.6	656.2	637.1	615.6	593.1	540.1	478.4
42.5°	734.1	728.9	732.7	752.3	770.4	754.2	693.5	624.2	592.6	555.4	523.3
45°	845.9	832.6	838.3	843.6	825.9	802.5	776.2	731.2	678.2	624.7	565.9
47.5°	965.4	958.3	957.8	955.9	957.8	935.3	900.4	858.8	783.8	726.0	660.5
50°	1256.5	1246.9	1249.8	1252.2	1242.2	1219.2	1181.5	1154.2	1064.4	953.5	868.4
52.5°	1790.3	1784.6	1771.2	1772.2	1681.9	1677.1	1625.9	1601.6	1469.2	1342.5	1170.9
55°	2449.4	2486.7	2445.6	2437.5	2400.2	2366.7	2238.6	2132.5	1942.8	1760.7	1559.5
57.5°	3342.2	3348.4	3296.3	3297.8	3165.4	3081.2	2963.2	2800.7	2518.2	2255.4	2029.8
60°	3992.7	4008.4	3984.1	3933.4	3677.2	3526.7	3396.7	3268.6	3053.0	2662.6	2348.6
62.5°	4204.4	4209.2	4193.9	4167.1	3941.1	3748.9	3581.6	3395.7	3230.4	2878.6	2563.2
63°	4212.0	4215.4	4203.4	4180.5	3970.7	3771.4	3604.1	3405.3	3243.3	2897.7	2576.1
65°	4191.5	4192.9	4187.7	4157.1	3989.3	3778.6	3594.5	3398.6	3250.0	2905.4	2576.1
67.5°	4006.5	3970.2	3985.5	3933.9	3794.3	3584.5	3408.6	3208.9	3075.0	2741.9	2426.5
70°	3296.3	3298.7	3296.3	3268.1	3228.5	3062.6	2857.1	2677.4	2508.2	2246.8	1999.2
72.5°	2550.3	2560.3	2538.3	2554.6	2522.5	2385.4	2252.5	2070.4	1951.4	1729.6	1511.2
75°	1975.3	1995.9	2002.5	1956.2	1928.5	1899.3	1826.7	1695.7	1576.7	1405.1	1214.4
77.5°	1492.6	1496.4	1502.1	1470.6	1434.3	1445.8	1435.2	1373.1	1273.2	1147.0	995.5
80°	1031.4	1042.4	1061.0	1042.9	1047.2	1040.5	1039.0	989.3	917.2	837.8	756.6
82.5°	693.0	692.5	697.3	726.5	753.2	752.3	709.7	640.0	603.2	580.2	534.3
85°	663.4	663.4	670.1	649.0	635.7	622.3	619.4	595.5	567.3	515.7	452.1
87.5°	618.4	617.0	618.9	600.8	583.1	578.8	574.5	553.9	541.5	496.6	438.3
90°	529.1	532.9	532.9	531.5	520.5	516.2	499.0	481.8	474.1	433.5	387.6
92.5°	466.9	466.9	472.2	463.1	451.2	457.9	428.2	405.8	395.3	368.0	331.7
95°	422.0	420.6	427.3	414.4	405.8	393.3	380.9	357.5	349.8	326.4	289.6
97.5°	336.9	335.5	339.3	333.1	319.7	314.0	300.6	282.0	274.8	252.8	230.4
100°	290.1	289.6	291.1	287.7	280.1	272.9	261.4	246.6	239.9	221.8	201.7
102.5°	275.3	273.9	274.3	274.8	263.8	257.1	246.1	234.7	228.0	213.2	191.2
105°	261.9	261.0	260.0	260.0	247.6	240.9	233.7	226.1	220.3	204.1	183.0
107.5°	249.5	248.0	244.7	244.2	236.1	228.9	220.3	213.6	207.9	193.1	173.0

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	235.6	*235.1*	233.2	233.7	228.5	217.5	210.3	202.2	195.0	182.1	164.4
112.5°	228.5	*228.5*	227.0	229.4	209.3	198.3	190.7	183.5	178.7	166.3	152.9
115°	220.8	*217.0*	215.5	220.3	197.4	182.1	174.4	166.8	162.0	149.6	138.6
117.5°	204.6	*203.6*	204.1	207.9	201.2	184.5	172.1	162.5	157.7	148.6	138.6
120°	233.2	*232.3*	226.5	225.6	214.1	200.7	192.6	187.4	180.2	165.4	146.2
122.5°	243.7	*241.8*	232.8	235.6	220.3	213.6	210.3	208.4	201.7	182.1	152.9
125°	212.2	*209.3*	206.9	207.9	199.3	190.7	187.4	184.5	177.8	166.8	145.8
127.5°	170.1	*171.6*	169.7	164.4	163.0	150.1	145.8	142.4	136.2	127.1	123.8
130°	159.6	*158.7*	158.2	157.2	156.3	146.7	140.0	131.9	126.7	119.0	109.9
132.5°	141.9	*142.9*	144.3	152.5	160.1	152.0	134.8	122.4	119.0	120.4	116.6
135°	134.8	*135.3*	135.3	141.5	148.2	140.0	127.1	115.2	113.7	119.0	114.2
137.5°	138.1	*140.5*	140.0	138.6	134.8	129.0	126.2	119.5	115.7	112.3	104.2
140°	145.8	*148.6*	147.2	139.1	136.2	133.3	135.3	132.9	123.3	111.8	99.9
142.5°	144.8	*147.2*	146.2	145.3	150.5	143.9	134.8	125.7	118.0	111.8	104.2
145°	187.8	*186.9*	183.0	183.0	176.8	166.8	160.6	151.0	141.9	133.8	121.4
147.5°	173.5	*175.9*	176.8	172.5	169.7	163.0	162.0	156.8	153.9	146.7	133.8
150°	137.6	*139.6*	136.7	133.3	131.9	132.4	130.0	126.2	123.3	118.0	112.3
152.5°	95.1	*96.1*	95.1	92.2	91.3	89.9	90.3	87.5	85.6	82.2	76.9
155°	86.5	*87.0*	87.5	82.7	81.7	82.2	82.7	80.8	76.9	74.1	67.9
157.5°	67.9	*66.9*	66.9	66.0	66.4	65.0	65.0	64.5	63.1	61.2	59.3
160°	54.0	*54.5*	54.5	54.5	55.4	54.5	54.5	53.1	53.1	52.1	51.1
162.5°	45.9	*45.9*	45.9	45.9	45.4	45.4	46.4	45.9	45.9	46.4	47.3
165°	38.7	*39.2*	39.2	39.2	39.2	39.2	40.1	40.1	41.1	43.0	45.4
167.5°	36.3	*35.8*	35.8	36.3	36.3	37.3	37.3	39.2	42.5	45.9	45.9
170°	34.4	*34.4*	34.4	34.9	34.9	35.4	36.8	40.1	44.0	45.4	43.5
172.5°	35.8	*35.4*	35.4	35.8	35.8	37.3	39.2	42.1	43.5	43.5	41.6
175°	36.8	*36.3*	36.3	36.8	36.8	37.8	39.7	41.6	42.5	43.0	43.0
177.5°	35.8	*35.8*	35.8	35.8	35.8	36.3	36.3	37.8	38.7	39.7	40.6
180°	34.4	*34.4*	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7
2.5°	218.4	199.3	171.1	136.7	159.2	186.9	183.0	161.5	129.0	97.0	97.0
5°	120.9	128.1	135.3	118.5	106.1	105.1	102.3	91.8	90.3	74.6	70.3
7.5°	105.6	98.9	97.5	115.2	113.7	75.0	59.3	52.6	55.4	75.0	77.4
10°	126.7	123.8	114.7	95.6	79.8	72.6	72.2	73.1	66.9	54.0	50.7
12.5°	142.9	138.1	130.0	124.3	106.1	84.6	72.6	67.4	71.2	90.3	94.6
15°	158.7	152.0	138.1	122.4	104.2	88.4	76.0	65.0	65.0	62.1	60.7
17.5°	171.1	162.5	145.8	128.6	108.0	88.4	72.2	61.2	55.9	55.0	55.0
20°	186.9	178.7	160.6	139.6	113.7	89.4	71.7	61.2	55.0	52.6	52.1
22.5°	206.5	196.0	172.5	147.7	117.1	90.3	72.6	61.7	55.4	52.1	51.1
25°	224.6	212.7	185.0	159.2	124.7	92.7	73.6	63.1	56.4	52.6	52.1
27.5°	239.4	226.5	200.7	171.1	132.9	98.5	78.4	66.0	57.8	54.0	53.1
30°	256.2	244.2	217.0	183.5	140.5	105.6	85.1	71.2	62.1	56.9	56.4
32.5°	281.0	266.2	234.7	196.4	149.6	113.3	91.8	76.0	65.0	62.1	62.1
35°	326.0	310.7	269.1	217.5	158.2	120.9	98.5	81.2	69.3	62.6	62.1
37.5°	410.1	389.0	336.9	265.3	173.0	127.1	104.2	85.6	71.7	62.1	60.7
40°	448.8	412.9	357.5	290.6	194.5	134.3	109.0	88.9	72.2	63.6	62.6
42.5°	494.7	464.6	386.2	296.8	210.3	152.0	117.1	92.7	75.0	65.5	64.5
45°	538.6	509.5	443.5	350.8	245.7	178.3	131.4	100.4	79.8	68.3	66.4
47.5°	618.4	587.9	496.1	406.2	294.4	219.4	160.1	112.3	86.5	71.2	68.8
50°	825.9	782.4	674.4	538.2	376.6	278.6	205.0	137.2	95.6	72.6	69.8
52.5°	1093.5	1027.1	910.0	736.0	538.6	394.3	287.2	199.3	111.4	73.1	68.8
55°	1527.5	1445.8	1257.4	1003.2	754.2	588.3	434.9	306.4	163.9	76.5	68.3
57.5°	1939.0	1878.3	1713.9	1372.6	1000.3	747.5	572.1	431.1	223.2	84.1	71.7
60°	2241.5	2125.9	1933.7	1583.9	1208.2	867.5	636.6	448.3	229.4	85.6	74.1
62.5°	2422.2	2279.3	1994.4	1614.5	1237.9	892.3	662.4	412.5	185.4	83.6	77.4
63°	*2435.6*	*2297.0*	*2002.1*	*1603.9*	*1228.3*	*885.6*	*658.6*	*403.9*	*180.2*	*83.2*	*78.4*
65°	2418.8	2298.4	1975.3	1549.0	1147.0	826.3	613.2	362.8	146.2	81.7	79.3
67.5°	2252.5	2154.5	1835.3	1400.3	1021.3	713.6	507.6	276.7	114.2	77.9	76.9
70°	1885.5	1773.1	1483.5	1157.6	809.6	576.4	404.8	214.6	94.2	74.1	73.1
72.5°	1403.2	1356.4	1127.0	880.8	622.7	444.5	304.0	163.0	83.6	71.2	70.3
75°	1134.6	1064.4	893.7	695.9	473.6	330.3	225.6	122.4	76.5	68.8	67.9
77.5°	938.2	891.3	743.7	525.3	337.9	238.0	165.8	97.0	73.1	67.4	66.9
80°	726.5	697.3	580.2	388.6	241.8	177.3	131.4	88.9	71.7	66.9	66.4
82.5°	512.3	503.3	422.5	290.6	205.5	158.7	122.4	87.5	72.2	67.9	66.9
85°	424.4	404.8	355.6	276.2	195.0	152.0	118.0	86.0	72.2	67.4	66.9
87.5°	413.4	397.2	344.1	258.6	178.7	140.5	110.9	82.7	69.8	65.5	65.0
90°	373.7	357.5	308.3	230.8	168.2	131.9	103.7	78.4	66.9	63.6	62.6
92.5°	318.8	304.0	267.6	209.8	161.1	126.7	100.8	76.9	66.4	62.6	62.1
95°	276.7	264.3	234.7	193.1	148.6	118.0	95.6	74.1	64.5	61.2	60.7
97.5°	220.3	212.7	189.7	157.2	125.7	103.2	85.6	69.8	62.1	59.3	58.8
100°	194.0	187.4	169.2	142.4	116.6	97.5	82.7	68.3	60.2	57.8	57.4
102.5°	182.1	176.8	160.6	133.8	109.4	92.7	78.9	66.0	58.8	56.4	55.9
105°	173.0	168.2	153.4	127.6	103.2	86.5	74.1	63.1	56.4	54.5	54.0
107.5°	162.0	158.2	143.9	118.5	97.0	81.2	70.3	60.7	55.0	53.1	53.1

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

Scaled Data Report

REPORT NUMBER: P1046241
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	152.9	150.1	135.3	113.3	92.7	77.9	67.9	59.7	54.5	52.6	52.6
112.5°	143.4	140.0	126.2	106.6	88.9	75.5	66.0	58.3	53.5	51.6	51.6
115°	132.9	129.5	116.1	98.9	84.1	71.7	63.1	55.9	51.6	50.2	50.2
117.5°	134.8	126.2	109.9	94.6	80.3	68.8	61.2	55.0	50.2	49.2	48.7
120°	136.7	125.7	113.7	99.4	82.7	67.4	59.7	53.5	49.7	48.3	48.3
122.5°	133.3	134.8	124.3	102.3	78.9	66.0	59.3	54.0	50.2	48.7	49.2
125°	130.5	133.8	121.4	96.5	76.0	65.5	59.3	55.4	52.1	50.7	50.7
127.5°	120.0	120.4	103.2	86.5	74.1	64.0	58.8	55.9	53.1	51.1	50.2
130°	105.6	104.7	96.5	84.1	69.8	61.7	56.9	55.4	52.6	49.2	48.7
132.5°	113.3	110.4	97.0	79.8	66.0	59.3	56.4	54.5	49.7	45.9	45.4
135°	107.5	104.7	90.8	74.6	64.0	60.2	58.8	54.0	46.8	44.0	43.5
137.5°	98.0	93.2	81.7	71.2	65.0	62.6	59.3	53.1	45.9	42.5	42.1
140°	94.2	89.4	80.3	73.1	66.0	58.3	52.6	46.8	42.1	39.2	38.7
142.5°	98.9	95.1	86.0	73.1	61.7	53.5	48.3	44.4	40.1	35.8	35.4
145°	115.2	108.0	95.6	82.2	70.3	60.7	52.6	44.4	36.8	32.0	31.5
147.5°	127.6	121.9	108.5	93.2	76.5	61.2	49.2	39.2	33.0	30.1	29.6
150°	106.1	102.8	92.7	80.3	67.9	54.0	42.5	34.9	31.1	30.1	30.1
152.5°	74.1	71.7	68.3	60.2	50.7	42.5	36.3	32.5	31.1	30.6	30.6
155°	65.5	64.0	59.7	52.6	45.9	39.7	34.9	32.0	31.5	31.1	31.1
157.5°	56.4	55.9	53.1	47.3	42.1	37.3	33.9	32.5	31.5	31.1	31.1
160°	50.7	49.2	46.4	42.5	39.2	36.3	34.4	33.5	32.5	32.0	32.0
162.5°	47.3	46.4	43.0	40.1	38.2	37.8	38.2	37.8	35.4	33.9	33.5
165°	44.9	44.4	41.1	39.2	38.2	40.6	43.5	42.5	38.2	35.8	35.8
167.5°	44.9	44.0	40.6	39.2	41.6	44.9	47.3	46.8	43.0	40.6	39.2
170°	42.5	41.6	40.6	41.1	44.4	45.9	46.4	47.3	47.8	50.2	51.1
172.5°	41.1	41.1	42.1	44.0	46.8	47.3	45.9	46.4	50.7	55.9	56.4
175°	43.0	43.0	44.9	48.3	49.7	50.7	48.7	49.2	54.0	59.3	59.7
177.5°	41.1	41.6	42.5	43.0	42.5	41.1	40.6	42.5	41.1	40.6	42.1
180°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

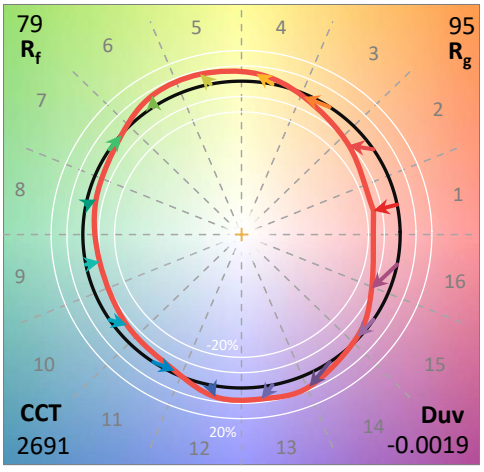
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

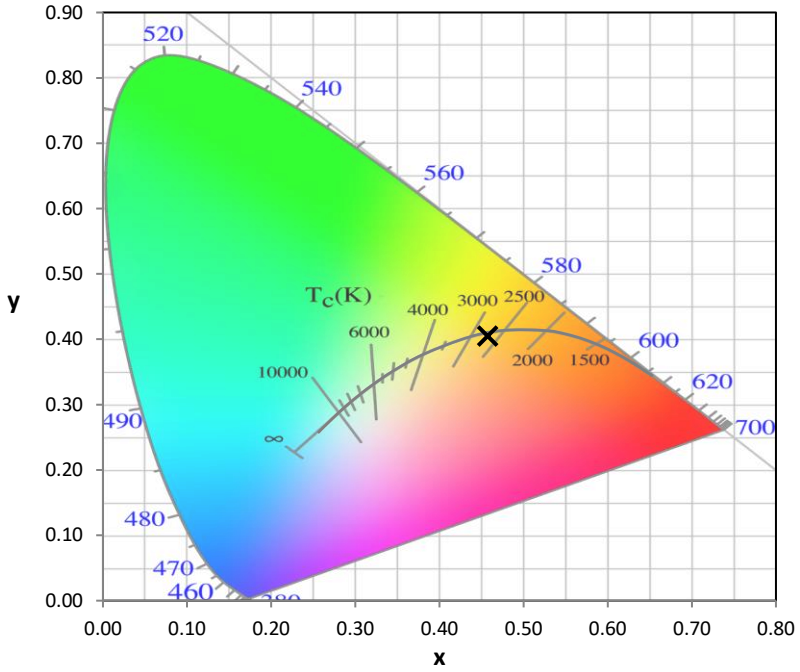
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

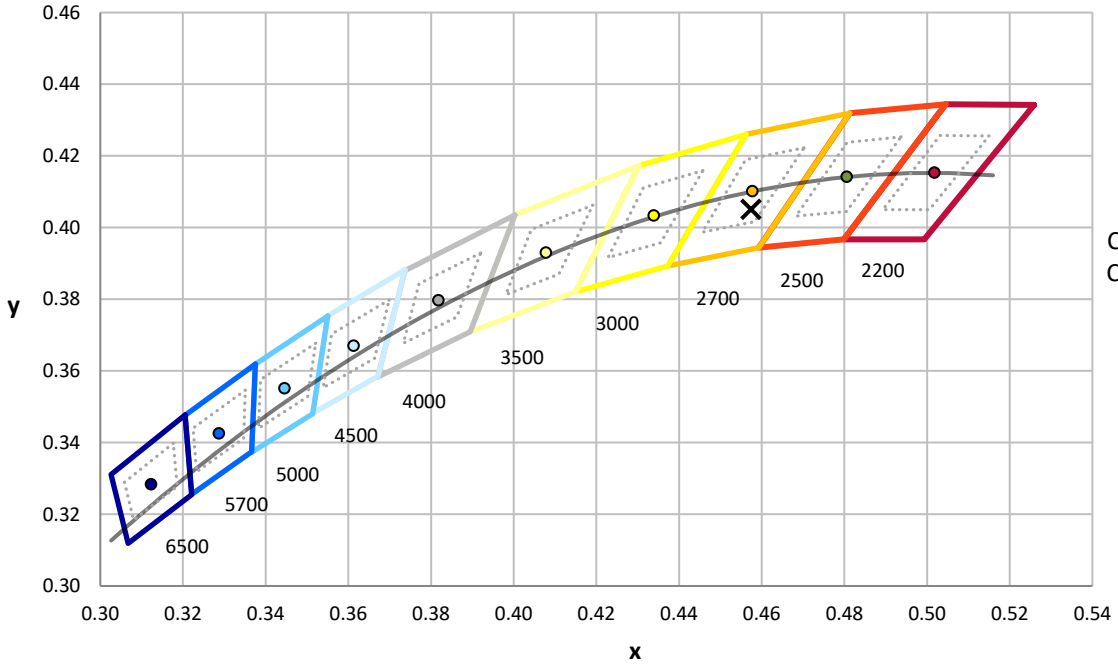
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

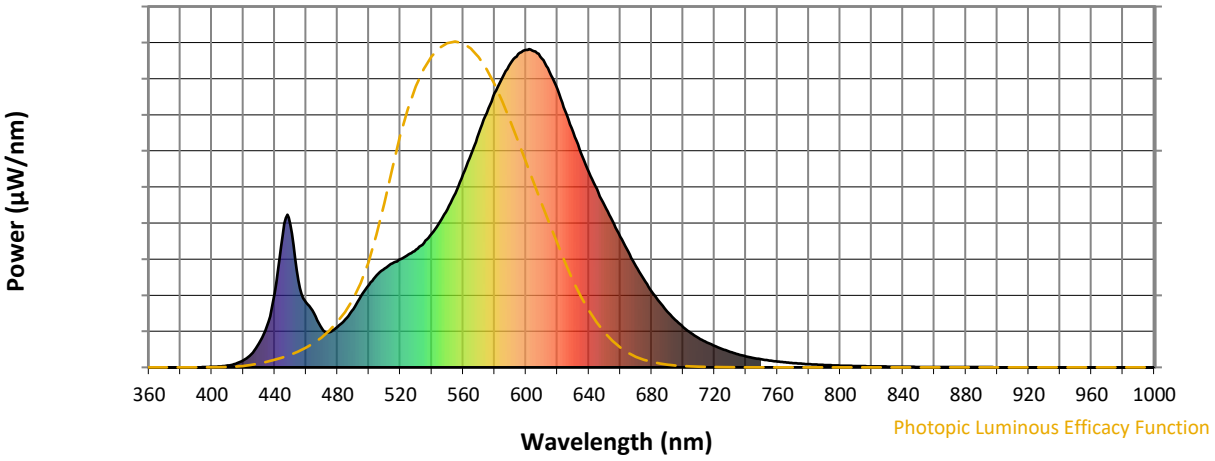


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

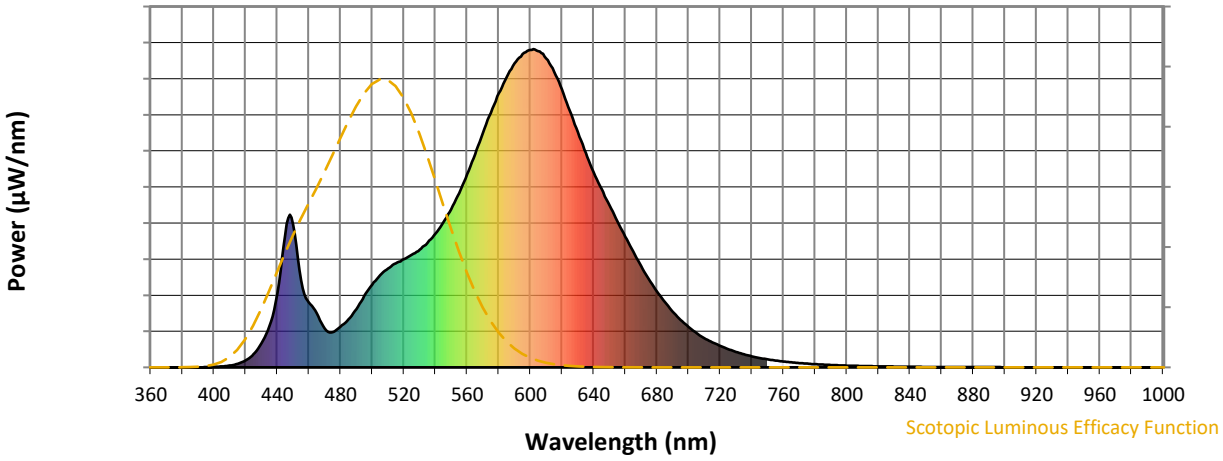


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

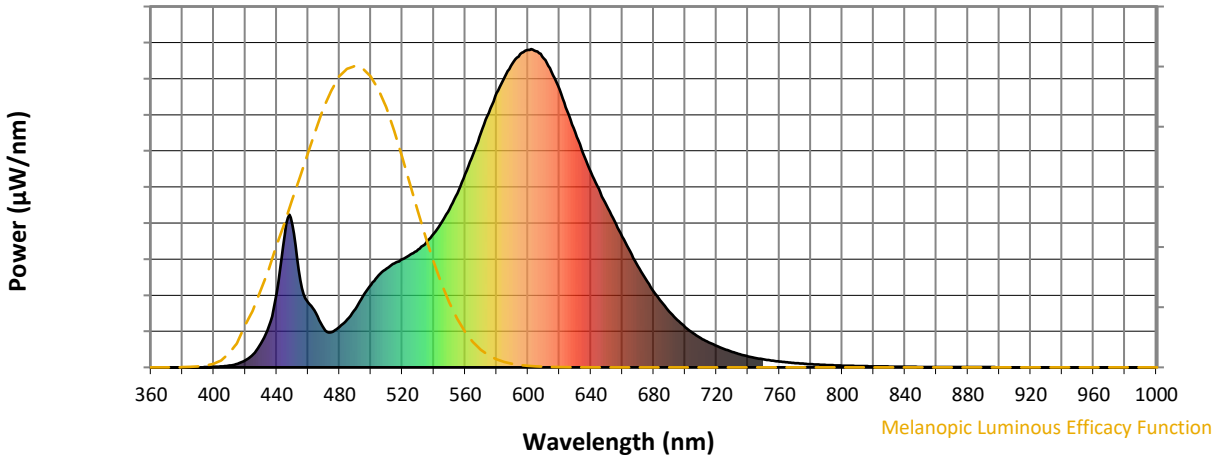


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

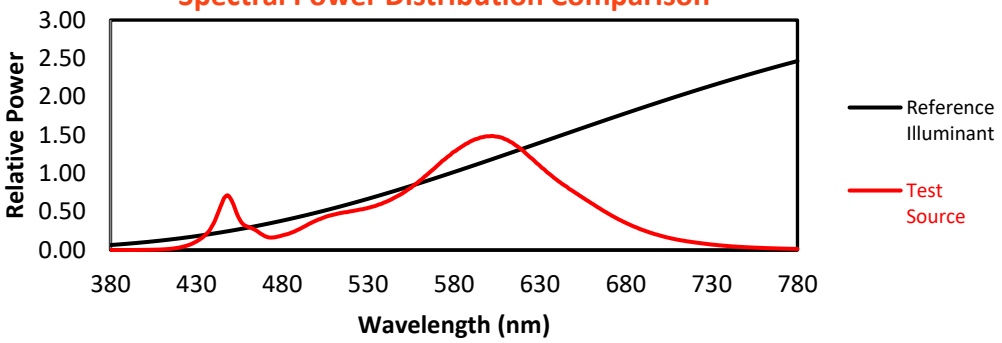
REPORT NUMBER: SP1-2501-332-8

TM-30-18

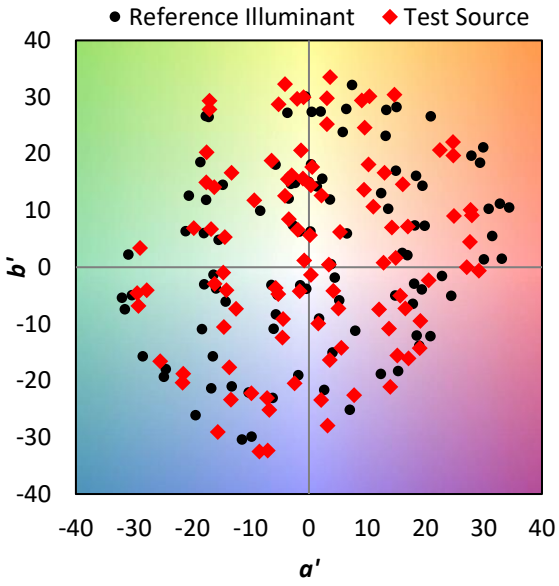
Summary

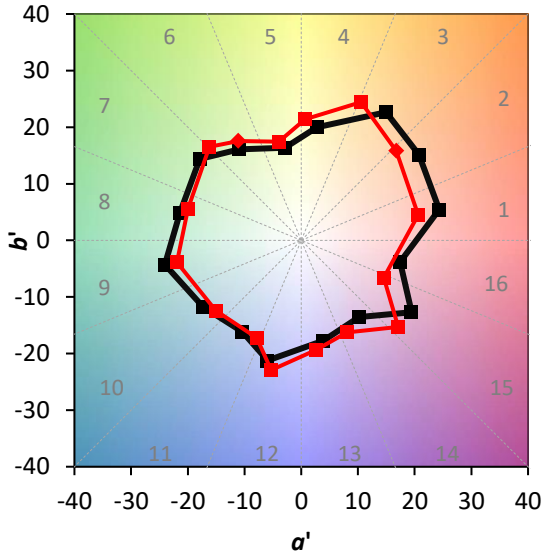
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

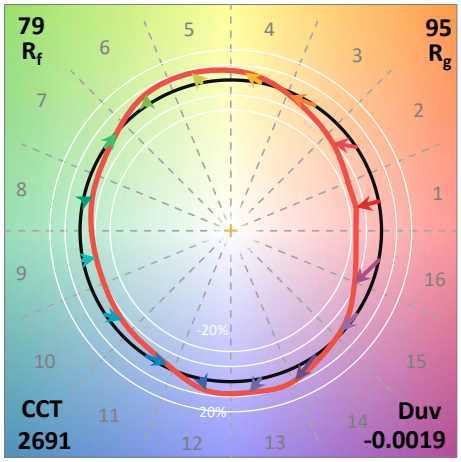
Spectral Power Distribution Comparison

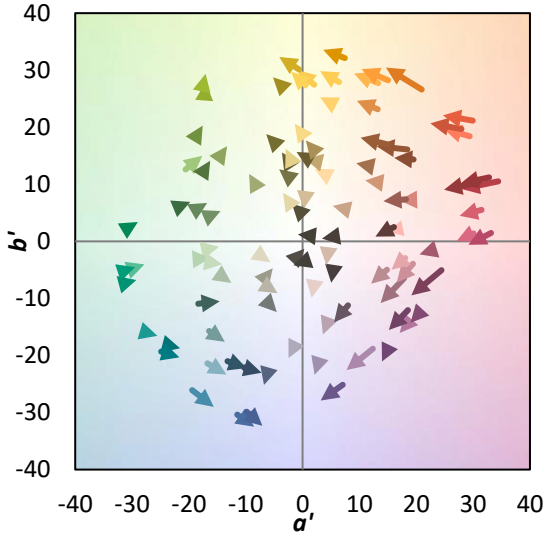


Color Vector Graphics







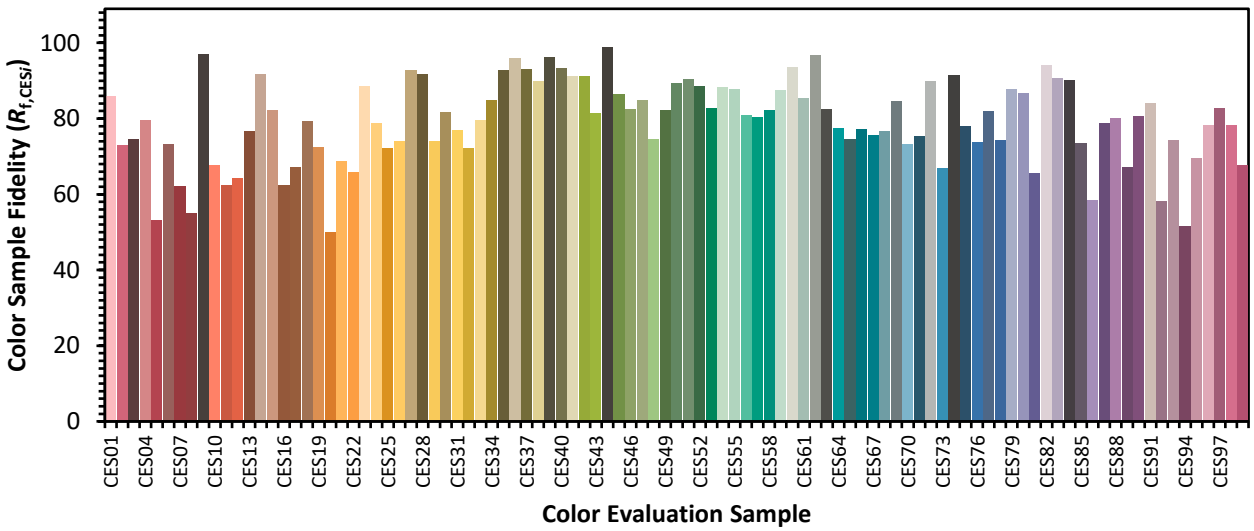


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

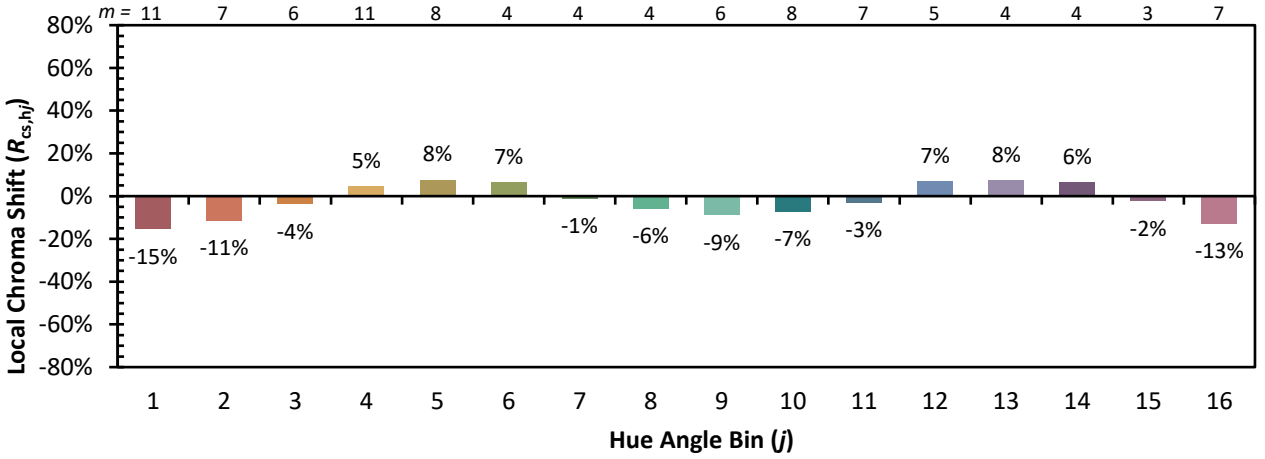
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

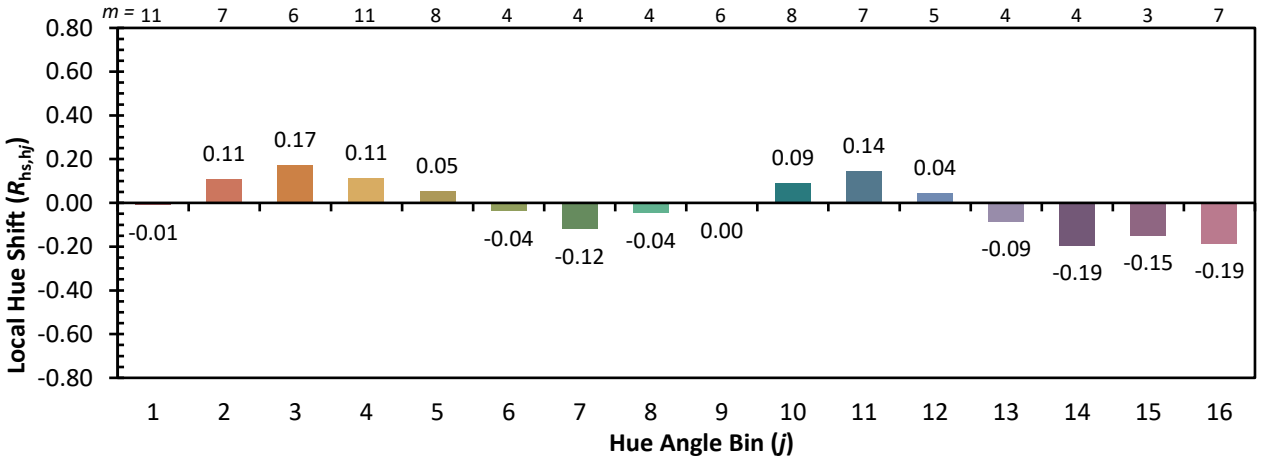


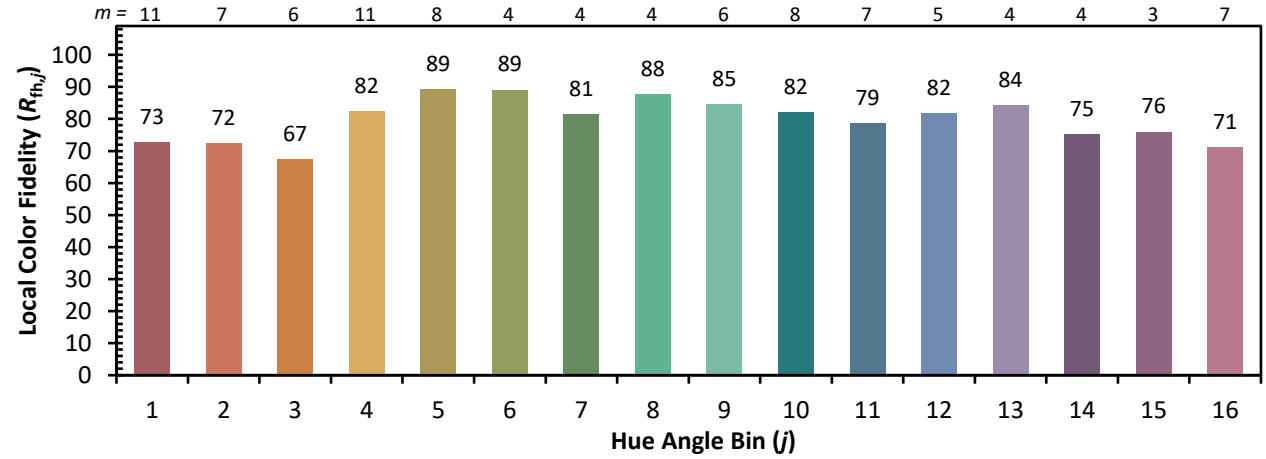
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Color Rendition by Hue-Angle Bin



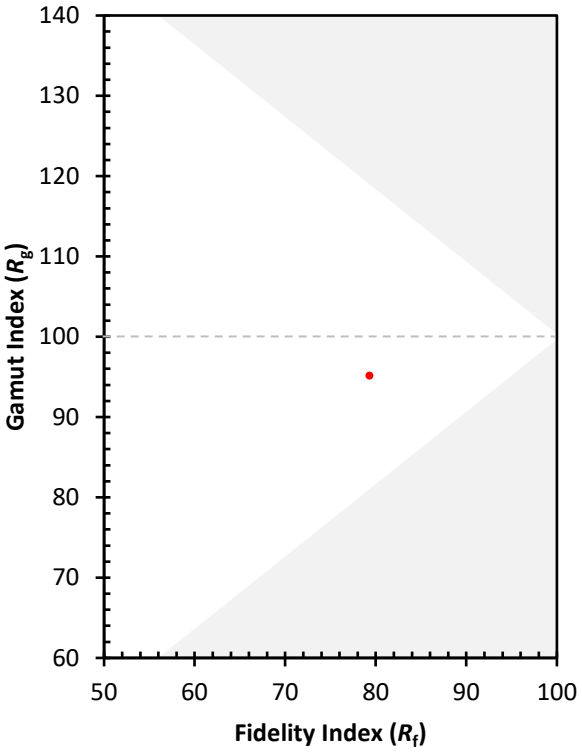


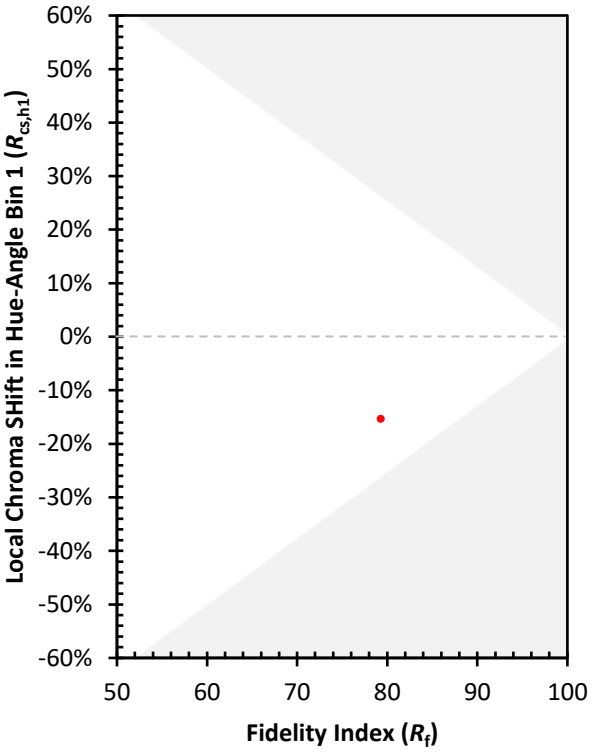


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Measure Comparisons





(END OF REPORT)