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: P1046448

Luminaire Tested: **FFX-CLB-50-750-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:	P1046448
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-750-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8092.1 lumens
Efficiency:	N/A
Efficacy:	159.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - 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

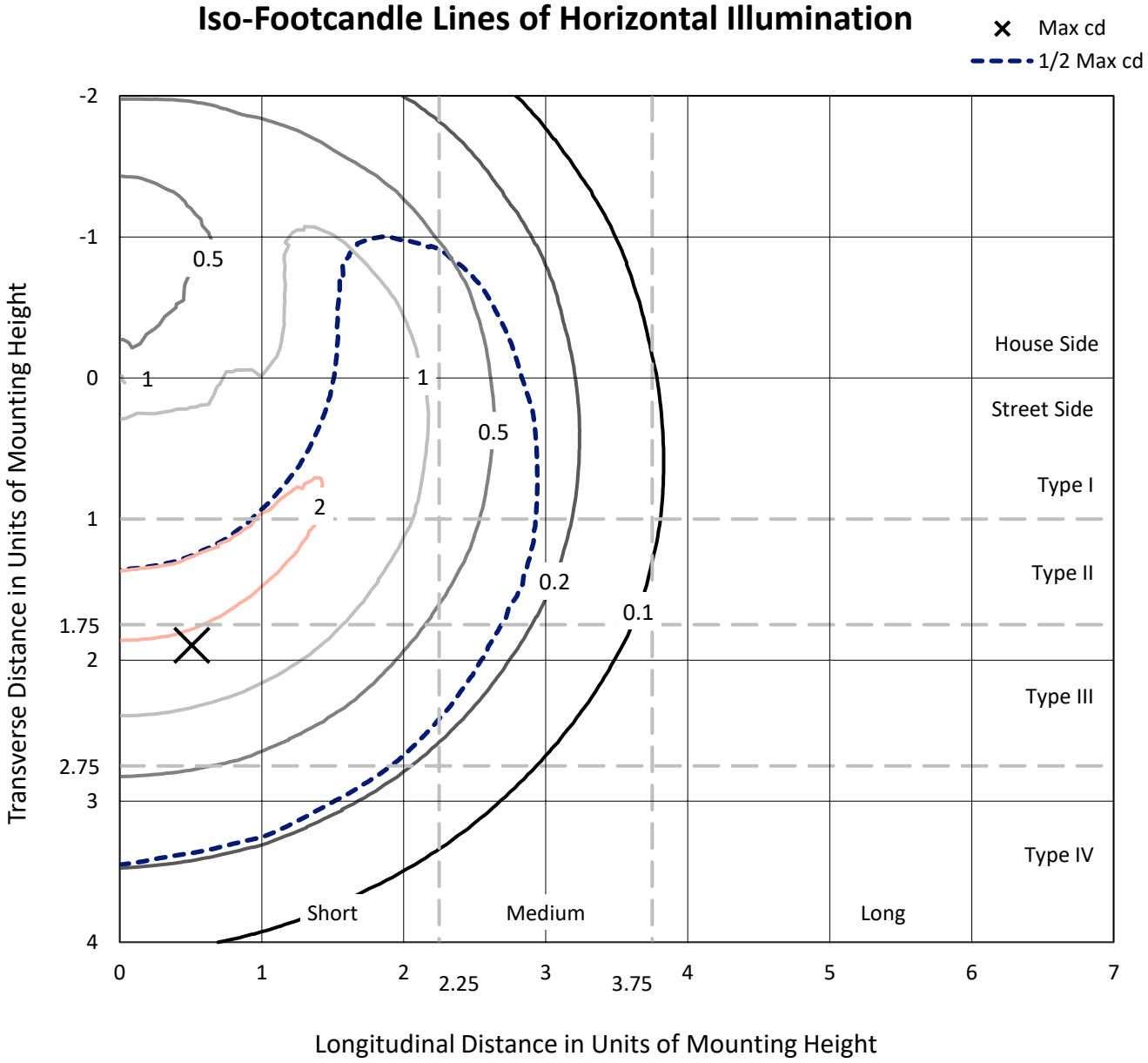


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REPORT NUMBER: P1046448
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Iso-Footcandle Lines of Horizontal Illumination



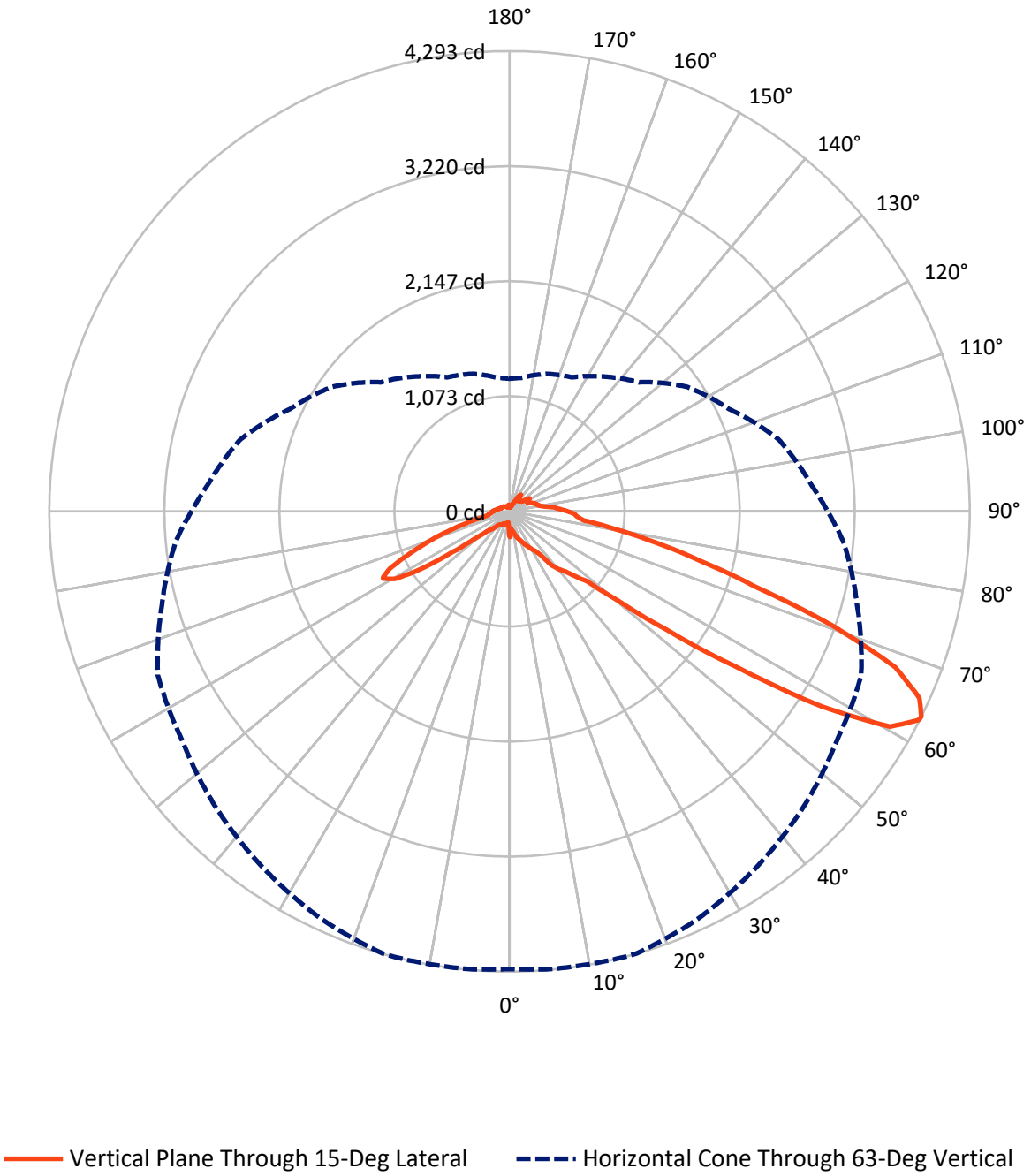
Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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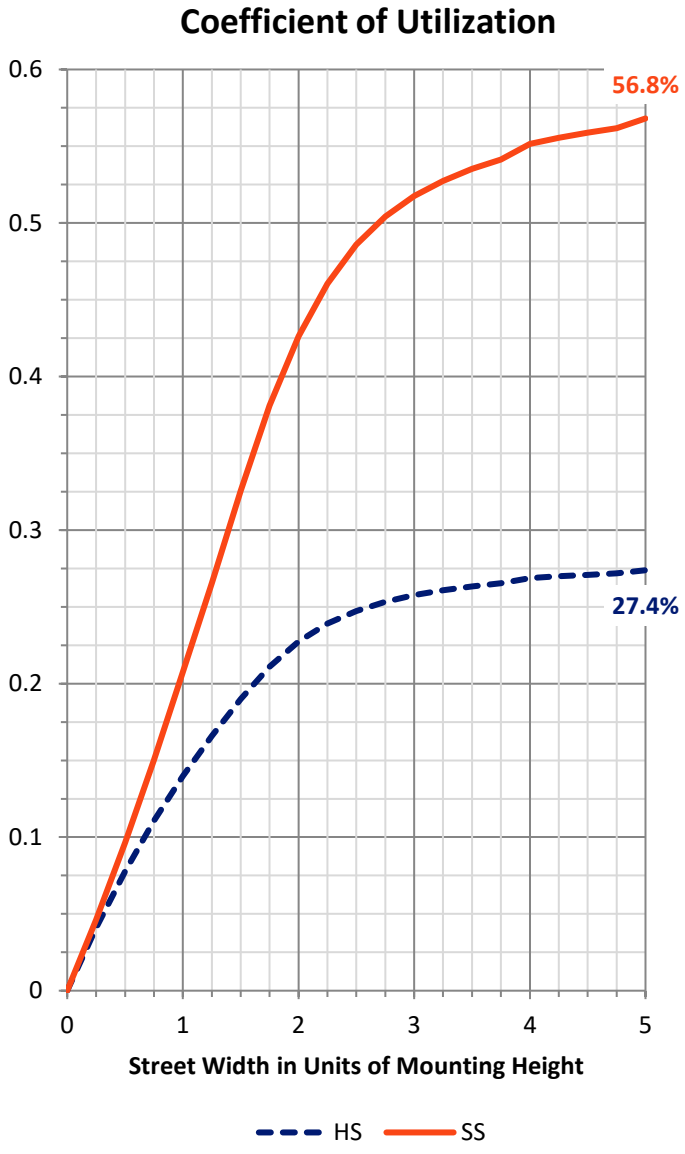
REPORT NUMBER: P1046448
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.6	372.9	2661.4
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	4792.0	638.7	5430.7
	% Fixture	59.2	7.9	67.1
Total	Lumens	7080.5	1011.6	8092.1
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	0.2
10°-20°	53.0	0.7
20°-30°	114.8	1.4
30°-40°	236.0	2.9
40°-50°	486.7	6.0
50°-60°	1600.8	19.8
60°-70°	2650.5	32.8
70°-80°	1390.2	17.2
80°-90°	533.8	6.6
90°-100°	322.5	4.0
100°-110°	203.1	2.5
110°-120°	150.4	1.9
120°-130°	128.0	1.6
130°-140°	83.5	1.0
140°-150°	72.6	0.9
150°-160°	33.2	0.4
160°-170°	13.6	0.2
170°-180°	4.7	0.1
0°-90°	7080.5	87.5
0°-180°	8092.1	100.0



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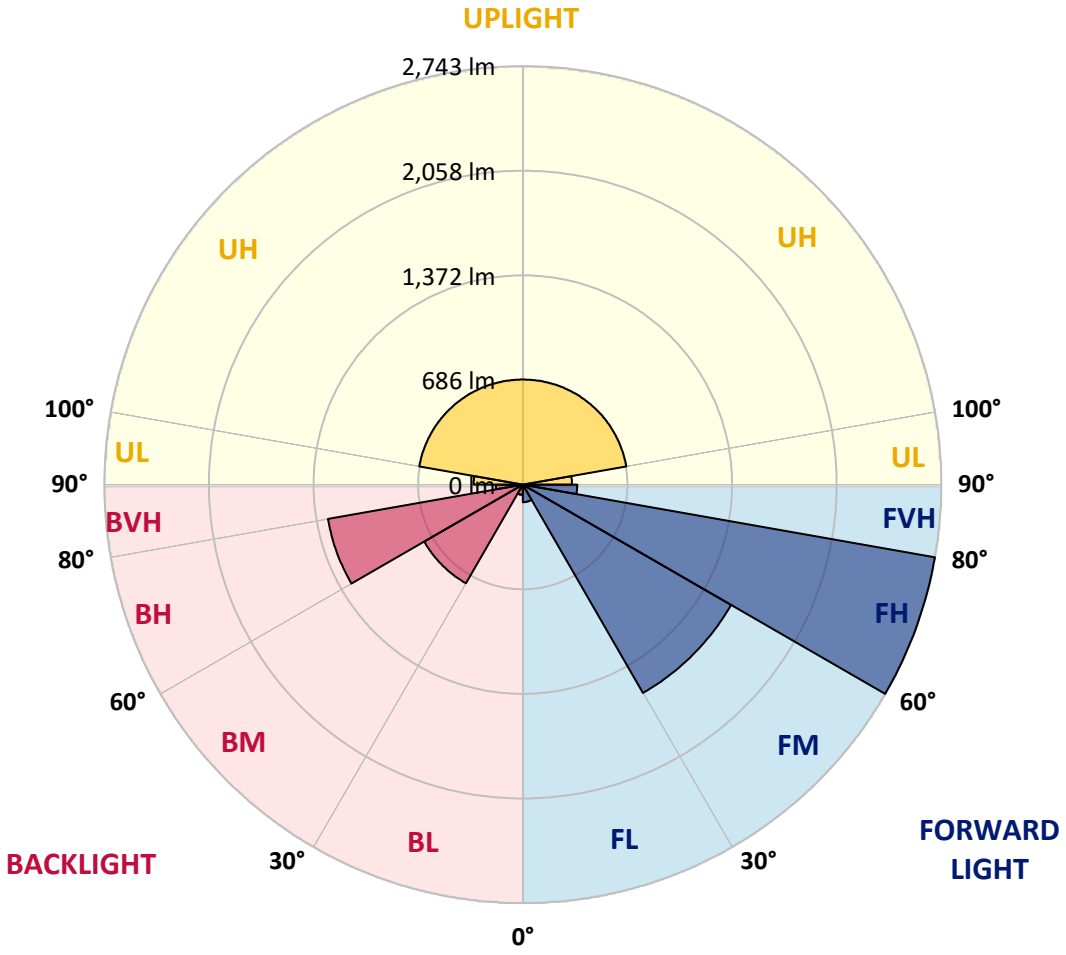
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	115.1	1.4			
FM	(30°-60°)	1576.8	19.5			
FH	(60°-80°)	2743.4	33.9			G2/5000
FVH	(80°-90°)	356.7	4.4			G3/500
BL	(0°-30°)	67.3	0.8	B0/110		
BM	(30°-60°)	746.7	9.2	B1/1000		
BH	(60°-80°)	1297.4	16.0	B3/2500		G3/2500
BVH	(80°-90°)	177.2	2.2			G2/225
UL	(90°-100°)	322.5	4.0		U3/500	
UH	(100°-180°)	689.1	8.5		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
2.5°	147.1	147.1	168.4	172.1	192.3	198.6	187.5	179.0	199.7	242.2	249.1
5°	159.9	163.0	162.5	162.0	163.0	182.2	201.8	192.8	158.3	125.9	125.9
7.5°	181.1	182.2	181.6	181.1	174.2	163.0	158.3	172.6	181.6	154.5	129.6
10°	196.0	194.9	194.4	193.8	194.9	199.2	197.6	180.0	162.5	153.5	148.2
12.5°	224.1	224.7	223.1	222.0	220.9	219.3	217.7	221.5	211.9	185.9	168.4
15°	245.4	245.4	249.6	248.6	248.6	243.2	235.8	225.2	212.4	205.5	190.1
17.5°	267.7	268.2	267.7	267.7	265.5	258.6	250.7	241.1	227.8	216.2	202.9
20°	289.4	289.4	288.9	288.4	287.9	282.5	272.5	259.7	247.5	236.3	222.5
22.5°	312.3	313.9	314.9	313.9	312.3	307.0	295.8	283.6	271.9	256.0	241.1
25°	344.7	345.2	344.1	343.1	341.0	334.1	325.6	312.8	298.5	281.5	261.8
27.5°	375.5	376.5	376.0	376.0	371.8	365.9	357.4	340.4	324.5	304.8	284.7
30°	410.5	409.5	406.8	407.3	404.7	399.9	390.4	375.5	355.3	331.9	309.6
32.5°	445.1	445.1	441.3	439.7	439.7	433.4	422.8	407.3	388.2	363.3	341.5
35°	482.8	492.3	501.9	505.6	505.6	496.6	483.8	463.6	447.2	421.2	394.1
37.5°	663.9	658.0	634.7	637.3	629.3	625.6	617.1	600.1	577.3	537.5	496.0
40°	727.6	726.5	709.0	706.9	703.2	691.0	681.9	670.2	662.3	614.5	552.3
42.5°	738.8	744.6	768.0	773.8	804.1	785.5	749.4	683.5	667.1	630.9	604.9
45°	864.1	866.2	866.2	867.3	859.3	845.5	840.7	798.8	765.8	713.8	664.9
47.5°	988.9	993.7	975.1	990.0	1010.7	982.5	969.8	935.3	890.1	849.7	769.6
50°	1278.9	1297.5	1301.2	1301.7	1310.7	1308.6	1289.5	1241.7	1196.6	1104.1	1014.9
52.5°	1815.8	1833.9	1841.8	1822.7	1794.6	1781.8	1786.6	1766.9	1662.3	1563.0	1381.9
55°	2516.9	2548.2	2548.2	2568.4	2559.9	2499.3	2495.6	2367.1	2198.2	2087.7	1930.0
57.5°	3454.8	3407.5	3434.0	3462.7	3404.3	3340.6	3245.5	3111.1	2864.2	2673.5	2445.2
60°	4150.0	4130.8	4078.3	4045.9	3899.8	3773.4	3698.5	3600.3	3412.8	3162.1	2856.8
62.5°	4277.4	4291.2	4287.5	4287.5	4170.7	4019.3	3868.0	3724.0	3607.7	3349.6	3108.0
63°	4269.5	4286.5	4293.4	4291.2	4186.1	4036.8	3886.5	3727.7	3619.9	3356.5	3122.8
65°	4201.5	4215.8	4203.6	4199.4	4133.0	4032.1	3863.2	3706.0	3607.7	3325.7	3125.0
67.5°	3928.5	3925.3	3879.6	3900.3	3858.4	3802.1	3644.4	3489.3	3421.3	3113.3	2928.4
70°	3172.8	3150.4	3200.4	3230.1	3184.4	3162.1	2974.7	2872.7	2785.1	2550.8	2401.6
72.5°	2425.5	2379.3	2387.8	2414.9	2357.5	2342.1	2261.9	2178.0	2136.1	1990.0	1824.3
75°	1901.8	1876.9	1830.7	1838.1	1790.8	1775.4	1766.9	1742.5	1726.1	1604.4	1440.3
77.5°	1422.3	1421.2	1382.4	1376.6	1342.6	1368.1	1358.0	1394.7	1386.7	1290.0	1165.2
80°	995.3	989.4	999.5	995.8	987.8	1002.7	986.8	1007.0	1007.0	943.8	891.2
82.5°	649.5	661.2	693.1	700.5	712.2	747.2	691.0	661.2	653.2	646.3	620.8
85°	644.7	647.9	634.1	635.7	630.4	617.1	627.2	632.0	624.0	585.8	529.5
87.5°	607.6	611.8	600.7	603.9	584.2	588.5	594.8	598.5	594.8	560.8	514.1
90°	512.0	516.8	526.8	526.8	528.4	529.5	519.4	525.3	521.5	489.1	455.1
92.5°	454.1	458.3	458.9	459.4	455.1	469.0	452.5	442.4	439.7	413.7	389.3
95°	415.3	410.5	409.5	410.5	408.4	407.9	397.3	389.8	386.6	365.9	342.0
97.5°	325.0	327.7	326.6	329.3	324.0	323.4	314.4	304.8	301.7	284.7	268.7
100°	285.2	284.7	285.7	286.3	283.1	279.4	273.0	266.1	262.4	249.6	234.2
102.5°	267.7	267.1	269.3	269.8	267.1	264.5	259.2	254.9	251.7	240.1	223.1
105°	256.5	254.9	257.6	257.6	251.7	250.1	246.4	245.9	243.8	230.0	213.5
107.5°	241.1	238.5	241.6	241.1	239.0	237.4	234.2	232.1	230.5	218.8	200.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	226.8	223.1	*224.7*	225.7	227.3	226.2	223.6	219.3	215.1	205.5	190.1
112.5°	200.2	202.3	*201.8*	201.8	203.4	203.9	199.2	196.5	193.8	186.4	176.3
115°	190.1	190.1	*190.1*	190.1	185.9	184.3	179.5	176.3	175.8	166.8	160.4
117.5°	182.2	183.2	*185.9*	187.5	192.8	189.6	179.0	172.1	169.4	165.7	158.8
120°	214.6	210.8	*207.1*	206.6	207.1	205.0	202.9	198.1	191.7	181.6	162.5
122.5°	230.0	220.4	*222.0*	221.5	217.7	219.3	219.9	220.4	216.2	200.2	170.5
125°	192.8	190.1	*191.7*	193.3	193.8	193.3	192.3	197.0	191.2	185.9	163.6
127.5°	154.0	153.0	*149.8*	149.2	148.2	148.7	148.7	150.3	145.0	139.7	138.6
130°	146.6	144.5	*145.0*	145.5	145.0	141.8	139.7	137.0	136.5	131.2	123.7
132.5°	132.8	133.8	*142.9*	143.9	150.3	146.6	135.4	128.0	129.1	131.7	129.1
135°	124.3	123.7	*130.6*	131.2	140.7	138.1	129.1	120.6	120.6	126.9	124.3
137.5°	126.9	128.0	*128.5*	129.1	128.5	128.0	127.5	123.7	121.1	120.6	114.2
140°	136.5	136.0	*130.6*	131.2	130.6	130.6	133.8	136.5	127.5	119.5	108.9
142.5°	142.9	144.5	*142.3*	145.0	149.8	145.5	140.2	133.3	128.0	122.7	116.3
145°	193.8	190.1	*188.5*	187.5	184.3	175.3	169.9	163.0	156.7	148.2	137.6
147.5°	175.8	176.9	*173.7*	174.7	170.5	167.3	166.2	166.8	164.6	159.9	148.7
150°	139.7	140.7	*137.6*	136.0	134.4	134.4	134.4	135.4	132.8	129.6	124.3
152.5°	97.7	96.7	*95.6*	95.1	94.0	92.9	92.9	93.5	90.8	89.8	85.5
155°	89.8	89.2	*85.0*	83.9	85.0	86.0	86.6	85.0	82.9	80.7	74.9
157.5°	70.1	68.5	*68.0*	69.0	69.0	68.5	67.4	68.5	66.4	65.9	64.8
160°	57.4	56.8	*57.4*	57.4	57.9	57.9	57.4	57.4	56.3	56.8	56.8
162.5°	48.9	48.9	*48.9*	48.3	49.4	49.9	49.4	49.4	49.9	51.5	52.6
165°	42.0	42.0	*42.5*	42.5	43.0	43.0	43.5	44.1	45.1	48.9	52.0
167.5°	39.3	39.3	*39.8*	39.8	40.4	40.9	42.0	44.1	47.3	51.5	53.1
170°	38.8	38.8	*38.8*	38.8	39.3	39.8	42.0	45.1	48.9	51.5	49.9
172.5°	40.4	40.4	*40.9*	40.9	40.9	43.0	44.6	47.3	49.4	49.9	48.3
175°	42.0	41.4	*42.0*	42.0	42.5	44.1	46.2	47.3	48.3	48.9	49.4
177.5°	40.9	40.9	*40.9*	41.4	41.4	42.0	43.0	43.5	44.6	45.7	47.3
180°	39.8	39.8	*39.8*	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
2.5°	249.1	242.2	188.5	161.5	184.3	228.9	233.1	201.8	156.7	108.9	99.3
5°	132.8	140.2	156.7	156.1	145.5	136.0	124.3	116.8	129.1	123.7	126.9
7.5°	120.0	113.1	115.8	135.4	132.2	100.4	90.8	88.7	99.3	123.7	121.1
10°	146.1	143.9	136.0	120.0	114.7	119.0	122.7	120.0	110.5	96.1	94.0
12.5°	165.2	162.5	163.6	173.7	161.5	133.8	118.4	113.7	119.0	140.2	144.5
15°	183.8	179.0	172.1	157.7	146.1	138.6	129.6	120.0	123.2	117.4	115.2
17.5°	196.5	189.1	174.7	164.1	152.4	142.9	134.9	124.8	117.9	116.3	116.8
20°	213.5	205.5	190.1	177.9	163.6	150.8	137.0	126.4	119.5	116.8	116.8
22.5°	233.1	223.6	206.1	189.1	173.1	156.7	140.2	128.5	122.2	119.5	118.4
25°	253.9	244.3	222.5	204.5	184.3	166.2	149.2	134.4	127.5	124.3	121.6
27.5°	275.1	263.4	241.6	219.3	197.6	176.3	158.3	142.9	133.3	128.0	128.5
30°	298.5	288.9	264.5	239.0	211.9	186.9	169.4	151.9	140.2	134.4	134.9
32.5°	329.8	314.4	285.2	256.0	229.4	201.8	179.5	159.3	146.6	142.9	143.4
35°	381.9	362.2	326.6	286.8	251.2	218.8	190.7	166.8	151.9	146.1	145.5
37.5°	475.9	449.3	408.4	361.7	310.2	257.6	211.9	175.3	156.7	147.1	145.5
40°	521.5	485.4	433.9	393.5	358.5	313.3	261.3	206.1	164.6	152.4	150.8
42.5°	582.6	552.3	485.4	406.8	360.1	322.4	285.7	250.1	198.6	166.8	160.9
45°	641.6	614.5	561.9	484.9	415.3	356.4	301.7	262.9	231.0	198.6	196.0
47.5°	740.9	712.2	624.6	556.1	482.8	415.8	358.5	294.8	253.3	230.5	230.5
50°	990.0	937.4	850.8	745.7	627.8	519.4	438.2	360.1	310.2	275.6	274.0
52.5°	1337.8	1263.5	1136.0	1019.7	880.6	755.2	628.8	492.9	420.1	370.2	369.6
55°	1840.2	1764.3	1593.8	1370.2	1199.7	1050.0	918.8	769.6	654.8	574.1	567.7
57.5°	2376.1	2312.4	2138.7	1861.0	1592.2	1327.2	1168.4	1049.4	994.2	937.9	926.2
60°	2723.4	2614.0	2455.8	2190.8	1930.5	1592.7	1395.7	1259.2	1240.6	1228.4	1213.0
62.5°	2942.3	2813.2	2577.9	2260.3	2021.3	1701.6	1525.3	1379.8	1336.2	1270.9	1252.3
63°	*2967.2*	*2827.0*	*2597.6*	*2258.7*	*2024.0*	*1703.2*	*1534.9*	*1379.8*	*1328.8*	*1250.2*	*1238.0*
65°	2955.5	2825.4	2596.5	2225.8	1962.4	1671.9	1507.2	1316.6	1235.3	1131.2	1110.5
67.5°	2777.1	2638.5	2422.8	2058.5	1820.6	1524.2	1343.1	1140.8	1017.6	915.6	891.7
70°	2260.9	2174.8	1985.2	1670.3	1489.7	1258.7	1099.9	941.1	807.8	700.5	673.4
72.5°	1722.9	1632.6	1490.2	1285.8	1152.5	993.7	843.4	721.2	611.3	540.1	542.2
75°	1367.0	1281.0	1163.6	1029.3	920.4	779.1	630.4	509.3	431.2	388.8	385.0
77.5°	1101.0	1041.5	939.0	815.2	721.2	573.6	441.3	335.7	277.8	253.3	246.4
80°	848.7	807.3	730.8	621.9	524.2	403.1	300.6	237.4	206.6	185.9	182.2
82.5°	603.9	578.9	515.2	439.2	372.8	309.6	263.4	222.0	190.1	172.6	167.3
85°	504.0	480.6	440.3	393.0	350.5	304.3	255.5	211.4	181.6	167.8	160.9
87.5°	489.1	467.4	428.6	378.1	331.9	282.0	232.6	191.2	169.9	156.7	152.4
90°	438.2	421.7	387.7	341.5	295.3	244.3	201.3	172.1	155.6	145.0	140.2
92.5°	377.6	363.3	335.1	296.4	257.6	220.9	188.0	163.6	147.1	136.5	132.8
95°	328.2	319.2	295.8	262.9	234.7	204.5	176.3	153.0	136.0	126.4	122.7
97.5°	261.8	251.2	234.2	211.4	190.1	168.9	148.2	132.2	120.0	113.7	110.5
100°	227.8	220.9	205.5	187.5	169.4	150.8	134.9	122.7	114.7	109.4	106.7
102.5°	214.6	209.8	195.4	177.4	160.4	142.3	126.4	115.2	109.4	104.6	102.5
105°	202.3	198.6	187.5	171.0	154.5	134.9	116.8	107.3	102.0	98.8	97.2
107.5°	189.6	185.4	174.7	158.8	144.5	127.5	111.5	99.8	92.9	89.2	88.7

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

Scaled Data Report

REPORT NUMBER: P1046448
CATALOG NUMBER: FFX-CLB-50-750-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	179.0	175.8	164.1	151.4	137.6	121.6	107.8	95.6	87.6	83.4	82.9
112.5°	167.8	164.1	152.4	140.2	128.5	114.7	102.5	91.9	84.4	80.2	79.7
115°	153.0	149.8	141.3	129.6	120.0	106.7	96.7	87.1	81.3	77.0	76.5
117.5°	154.5	145.5	133.8	123.2	114.7	105.2	96.1	88.7	79.7	74.9	74.9
120°	156.7	148.2	136.5	127.5	122.7	115.2	101.4	90.8	78.6	73.8	73.3
122.5°	154.5	155.6	149.2	140.2	130.6	117.9	100.9	89.2	77.0	73.3	73.8
125°	149.8	154.5	145.5	133.3	120.6	108.3	94.0	83.4	75.9	73.3	72.8
127.5°	135.4	134.4	122.7	113.7	104.6	94.5	85.5	79.1	73.8	70.6	69.0
130°	119.5	119.0	114.2	106.7	97.7	88.7	80.7	76.5	71.2	66.9	65.9
132.5°	125.9	124.3	114.2	102.0	91.9	84.4	79.1	74.4	66.9	62.1	61.6
135°	119.0	117.9	107.8	95.6	86.6	82.9	79.1	72.2	63.2	59.5	59.0
137.5°	108.9	104.6	96.1	88.7	84.4	83.4	78.6	70.6	62.1	57.9	57.4
140°	103.6	100.4	94.0	89.2	84.4	78.6	71.7	64.3	58.4	55.2	54.7
142.5°	109.9	108.9	99.3	90.8	83.4	76.5	69.0	64.3	57.9	53.6	53.1
145°	130.1	124.8	113.1	101.4	95.1	86.0	76.5	66.4	54.7	48.3	46.7
147.5°	142.3	137.6	125.9	113.1	99.3	85.0	70.1	57.4	48.3	43.5	42.5
150°	117.9	115.8	108.3	96.7	85.0	71.7	59.5	50.5	44.6	41.4	41.4
152.5°	82.9	82.3	79.1	72.2	64.8	57.4	51.0	45.7	42.5	40.4	40.4
155°	73.3	72.2	70.1	63.7	58.4	52.0	47.3	44.1	42.0	40.4	40.4
157.5°	63.2	62.1	61.6	56.8	52.6	48.3	44.6	42.0	40.4	39.3	38.8
160°	56.3	54.7	53.1	50.5	47.8	45.7	44.1	42.0	40.4	39.3	39.3
162.5°	52.6	51.5	48.9	46.7	45.7	45.7	46.2	45.1	42.0	40.4	39.8
165°	52.6	51.0	47.3	45.1	45.1	47.8	50.5	48.3	45.7	42.5	42.0
167.5°	53.1	52.0	48.3	46.7	48.3	51.5	54.2	53.6	49.9	47.3	47.3
170°	49.4	48.9	49.4	51.0	52.6	53.1	54.2	53.6	54.7	58.4	58.4
172.5°	47.8	48.3	51.0	53.6	56.8	56.8	54.2	53.6	58.4	63.7	64.8
175°	49.9	51.0	53.6	56.8	59.5	59.5	56.8	57.4	62.1	66.9	68.0
177.5°	47.8	48.3	49.4	48.9	49.9	47.3	48.3	47.3	48.9	48.9	48.9
180°	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8

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: SP1-2501-332-10

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

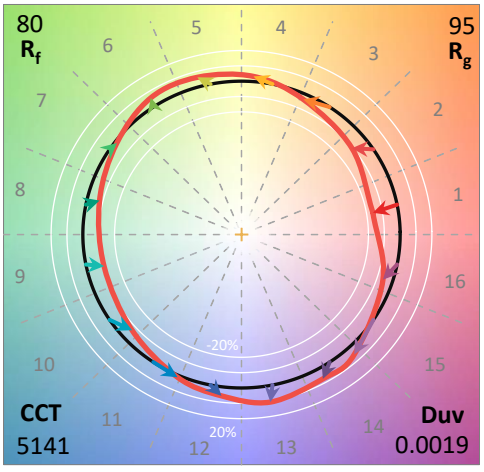
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-10
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-20-750-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):	5141	CRI (Ra):	78.0		
CIE u':	0.2087	R1:	75.1	R9:	-20.0
CIE v':	0.4845	R2:	83.7	R10:	62.4
Duv:	0.0019	R3:	90.5	R11:	77.7
CIE x:	0.3415	R4:	78.3	R12:	58.6
CIE y:	0.3524	R5:	77.1	R13:	76.9
CIE z:	0.3060	R6:	78.0	R14:	95.0
Peak Wavelength (nm):	448	R7:	82.9	R15:	67.8
Dominant Wavelength (nm):	568	R8:	58.7		
Purity:	8.219556				
Rf:	79.6				
Rg:	95.3				



Test Conditions

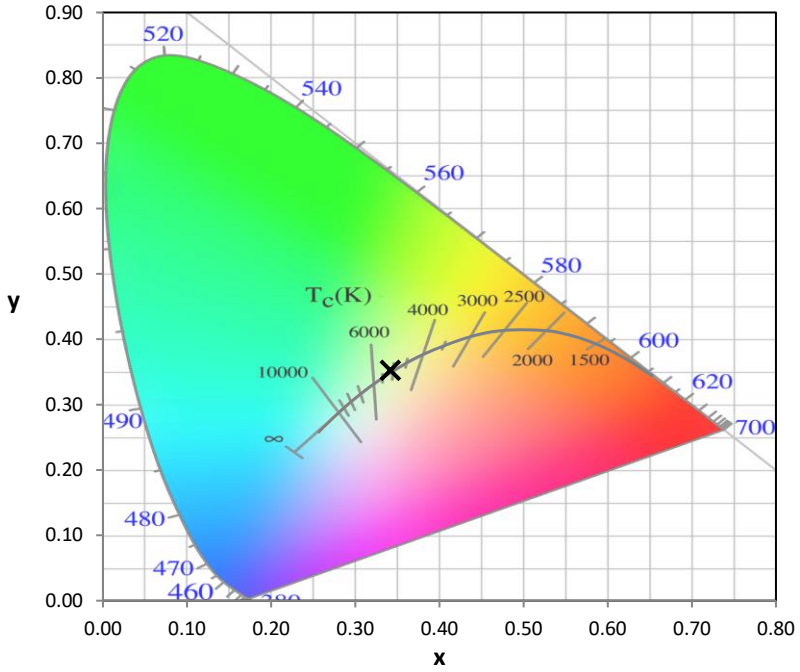
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

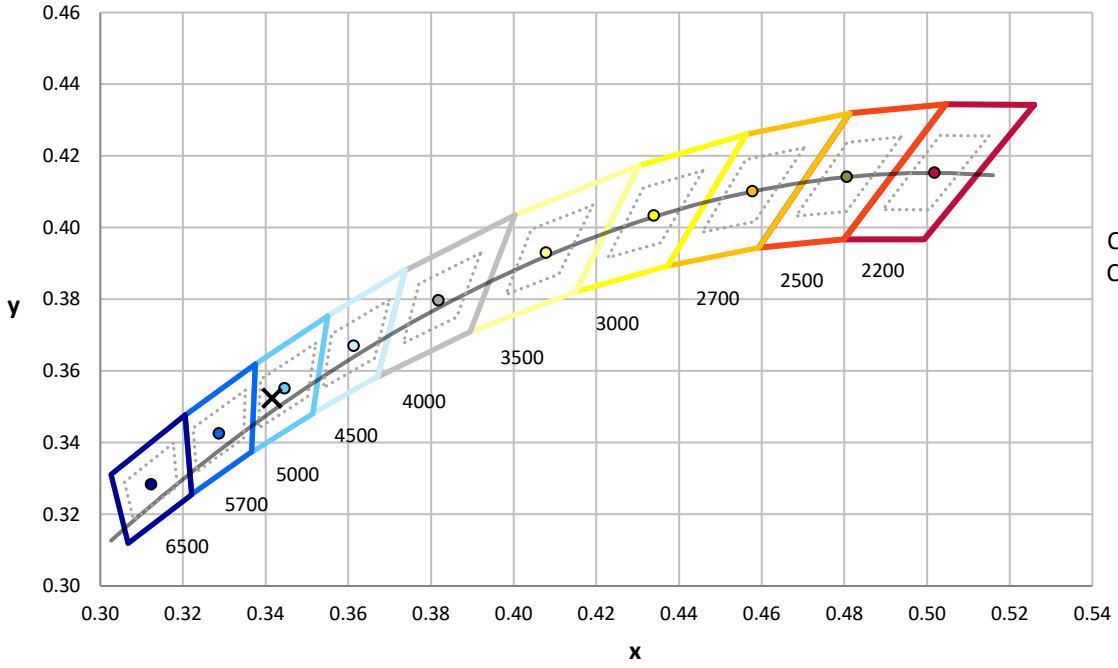
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-10

CIE 1931 Chromaticity Diagram



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

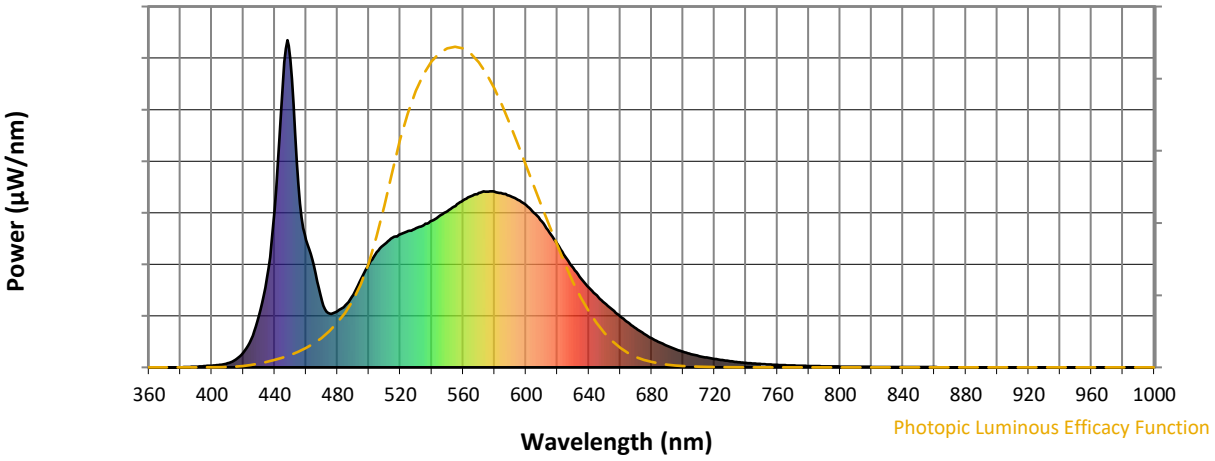


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

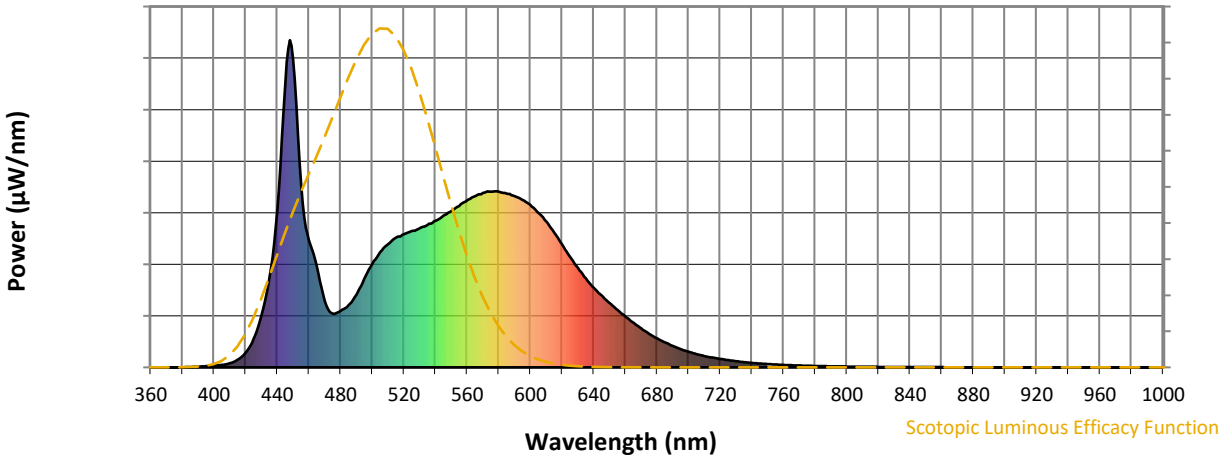


Photopic Lumens: NR

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Scotopic Flux vs. Wavelength

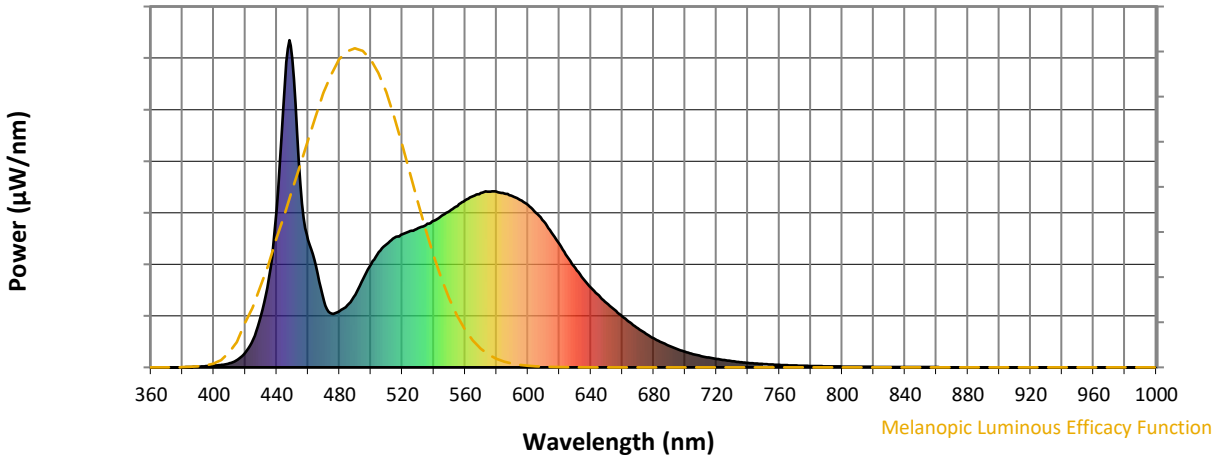


Scotopic Lumens: NR **S/P: 1.92**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.05**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

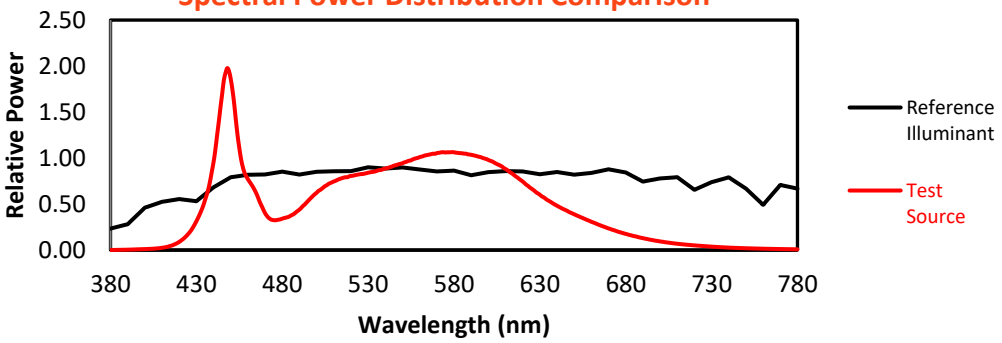
REPORT NUMBER: SP1-2501-332-10

TM-30-18

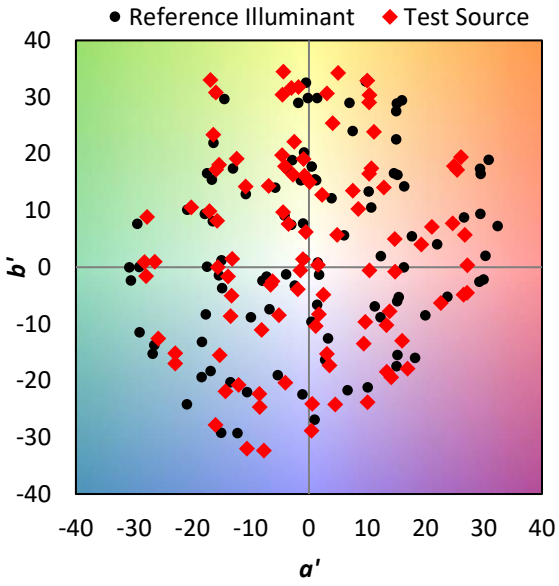
Summary

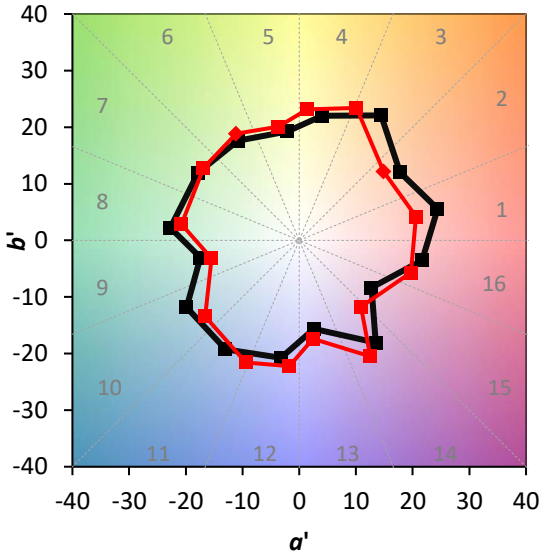
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

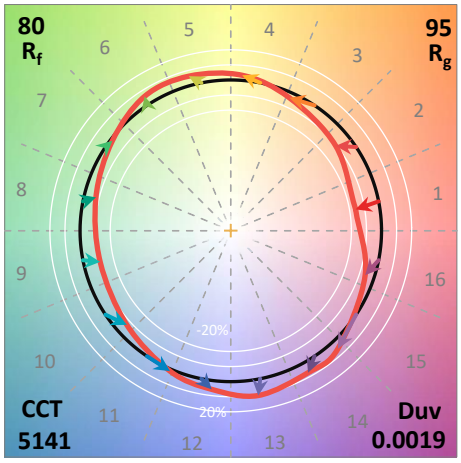
Spectral Power Distribution Comparison

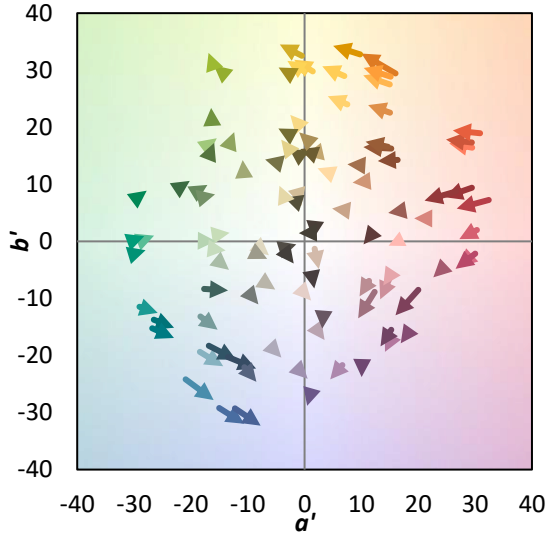


Color Vector Graphics







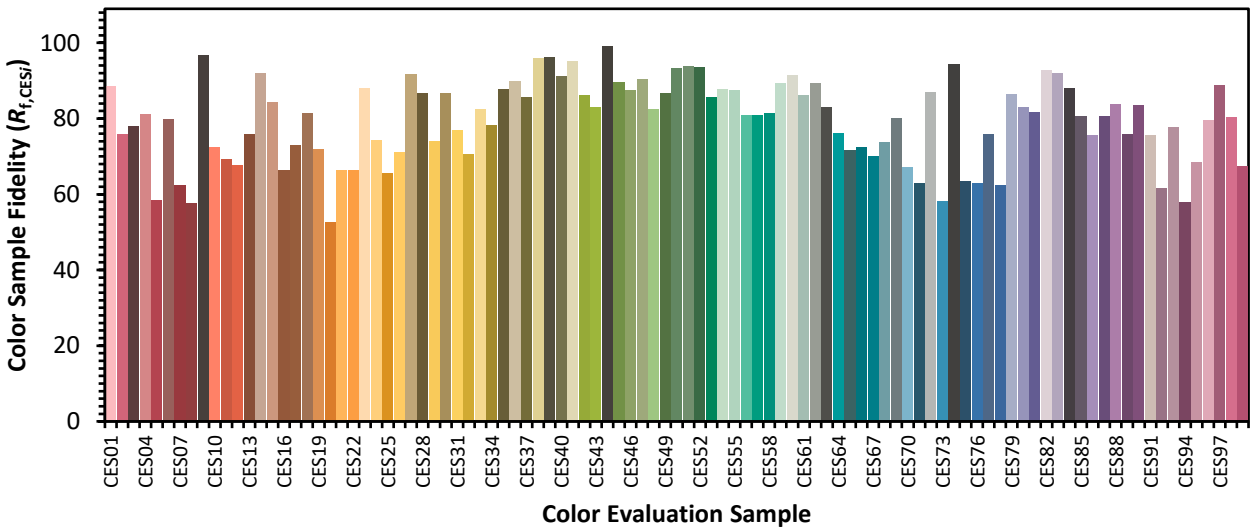


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

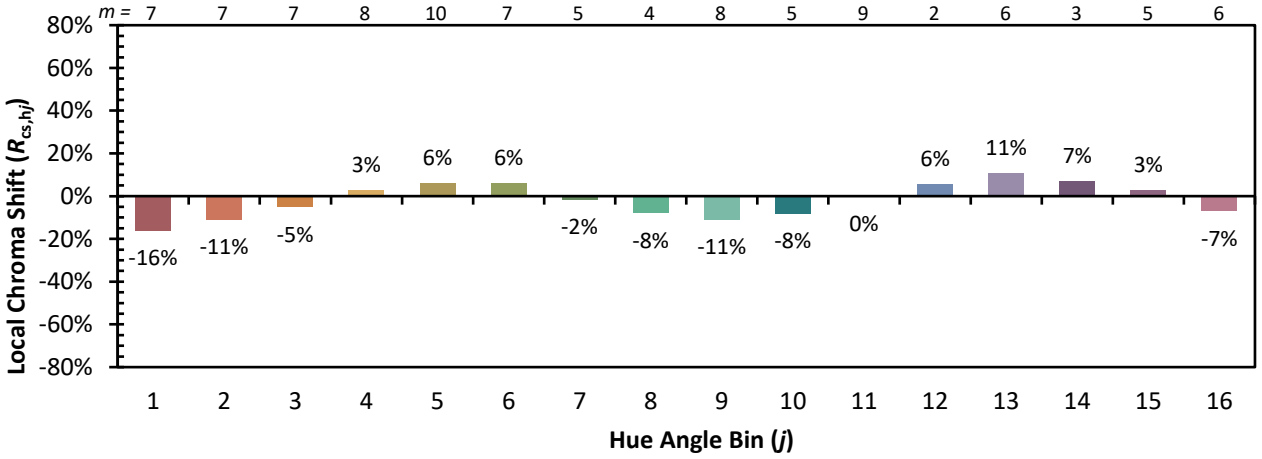
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57 = 81	CES82 = 93
CES08 = 38	CES33 = 83	CES58 = 82	CES83 = 92
CES09 = 29	CES34 = 78	CES59 = 89	CES84 = 88
CES10 = 73	CES35 = 88	CES60 = 91	CES85 = 81
CES11 = 56	CES36 = 90	CES61 = 86	CES86 = 76
CES12 = 61	CES37 = 86	CES62 = 89	CES87 = 81
CES13 = 42	CES38 = 96	CES63 = 83	CES88 = 84
CES14 = 74	CES39 = 96	CES64 = 76	CES89 = 76
CES15 = 70	CES40 = 91	CES65 = 72	CES90 = 83
CES16 = 46	CES41 = 95	CES66 = 72	CES91 = 76
CES17 = 49	CES42 = 86	CES67 = 70	CES92 = 62
CES18 = 55	CES43 = 83	CES68 = 74	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 58
CES20 = 64	CES45 = 90	CES70 = 67	CES95 = 68
CES21 = 85	CES46 = 88	CES71 = 63	CES96 = 79
CES22 = 77	CES47 = 90	CES72 = 87	CES97 = 89
CES23 = 91	CES48 = 83	CES73 = 58	CES98 = 80
CES24 = 90	CES49 = 87	CES74 = 94	CES99 = 67
CES25 = 71	CES50 = 93	CES75 = 64	

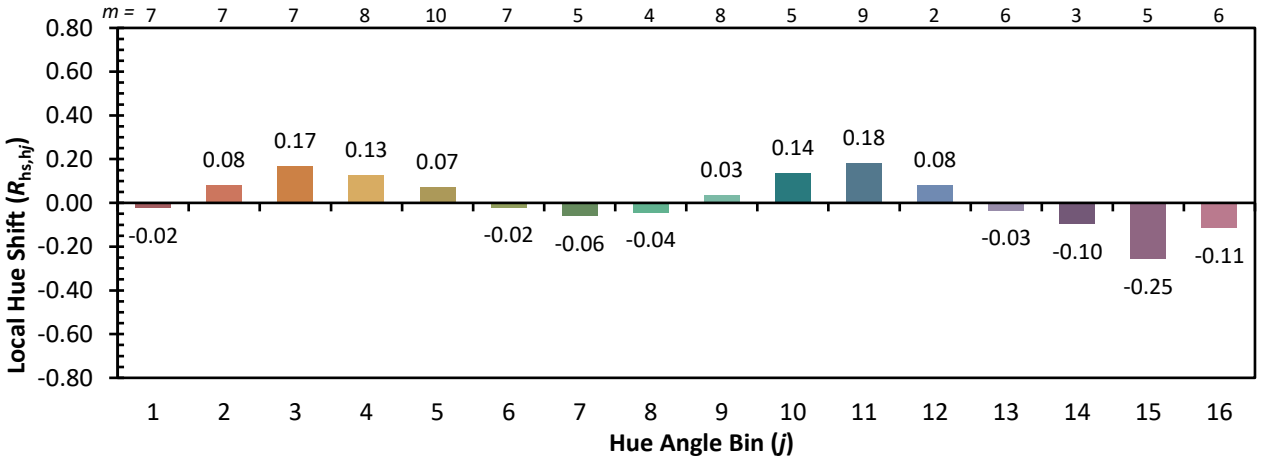


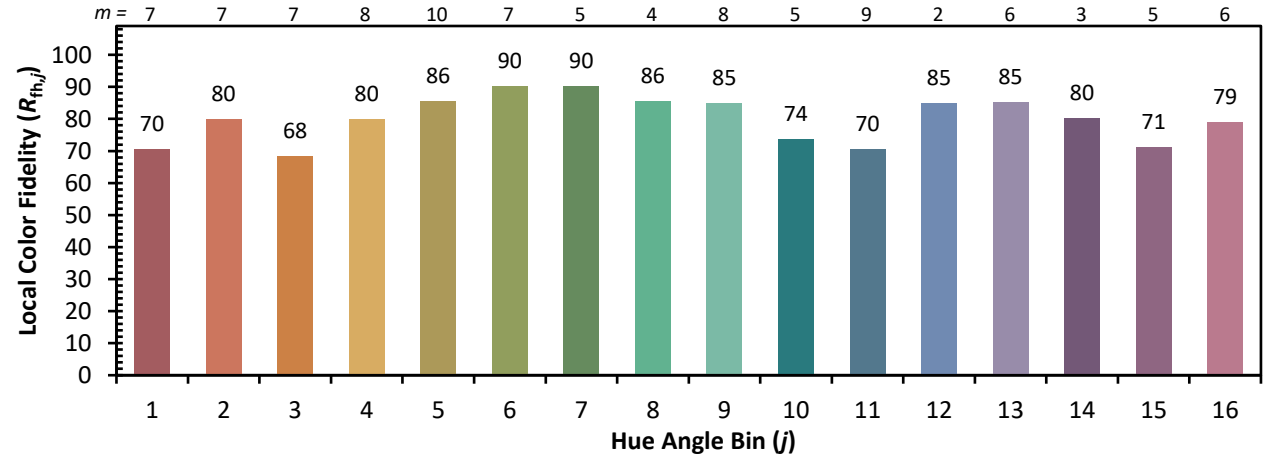
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Color Rendition by Hue-Angle Bin



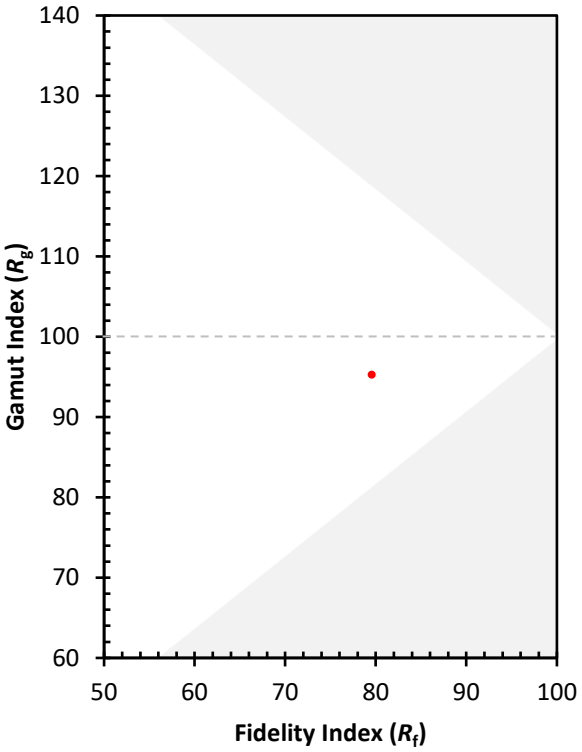


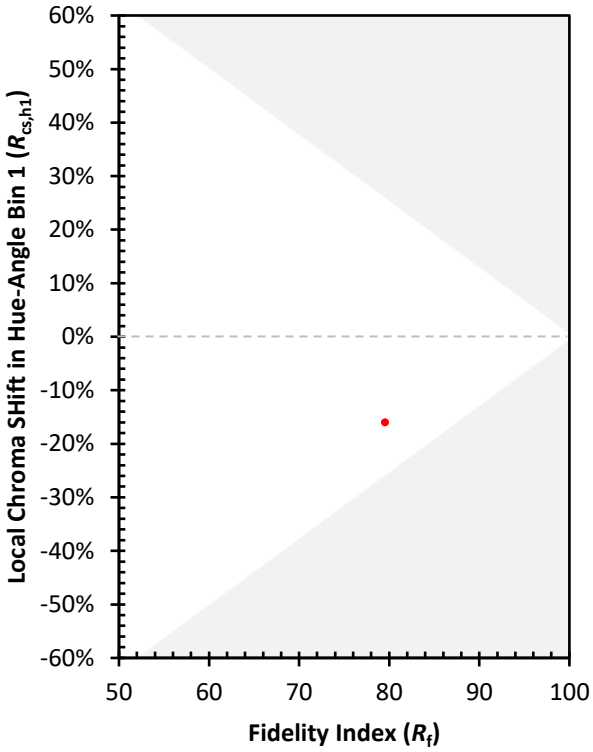


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Measure Comparisons





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