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: P981434

Luminaire Tested: **FFX-CLB-90-740-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981434
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-740-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14690.2 lumens
Efficiency:	N/A
Efficacy:	162.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U5 - G4

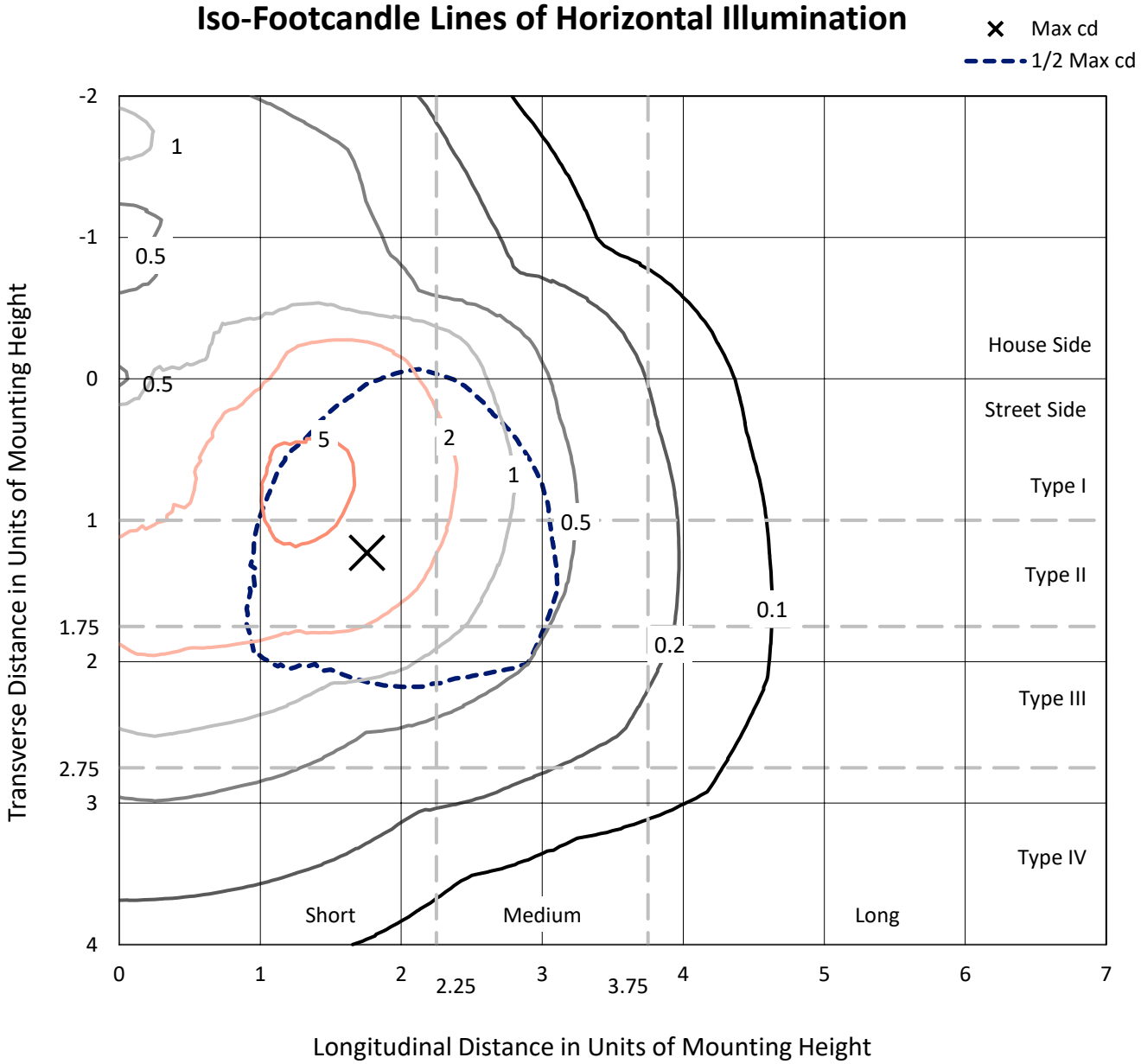
Input Watts (W):	90.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	5.42%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



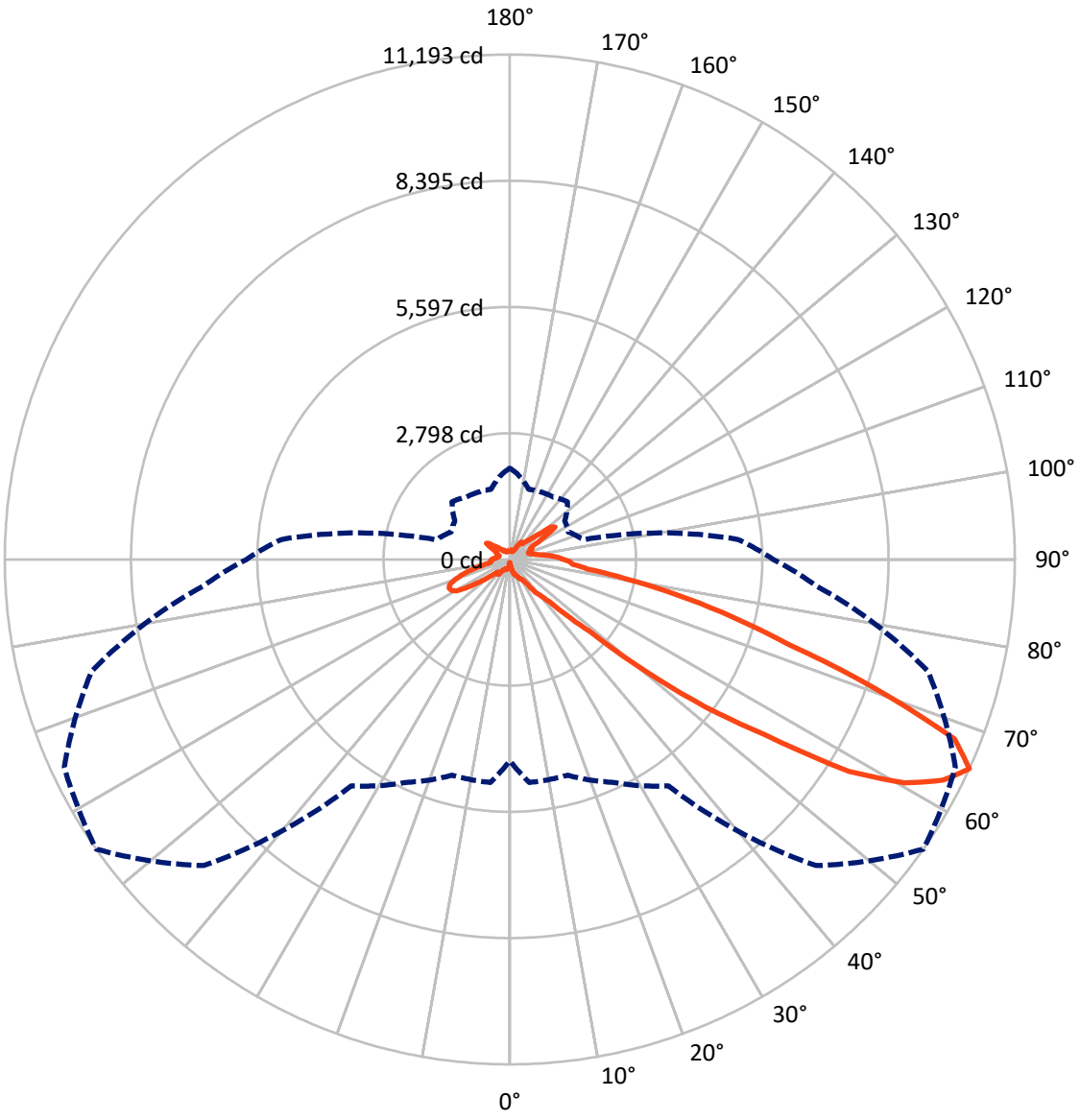
Based on 15 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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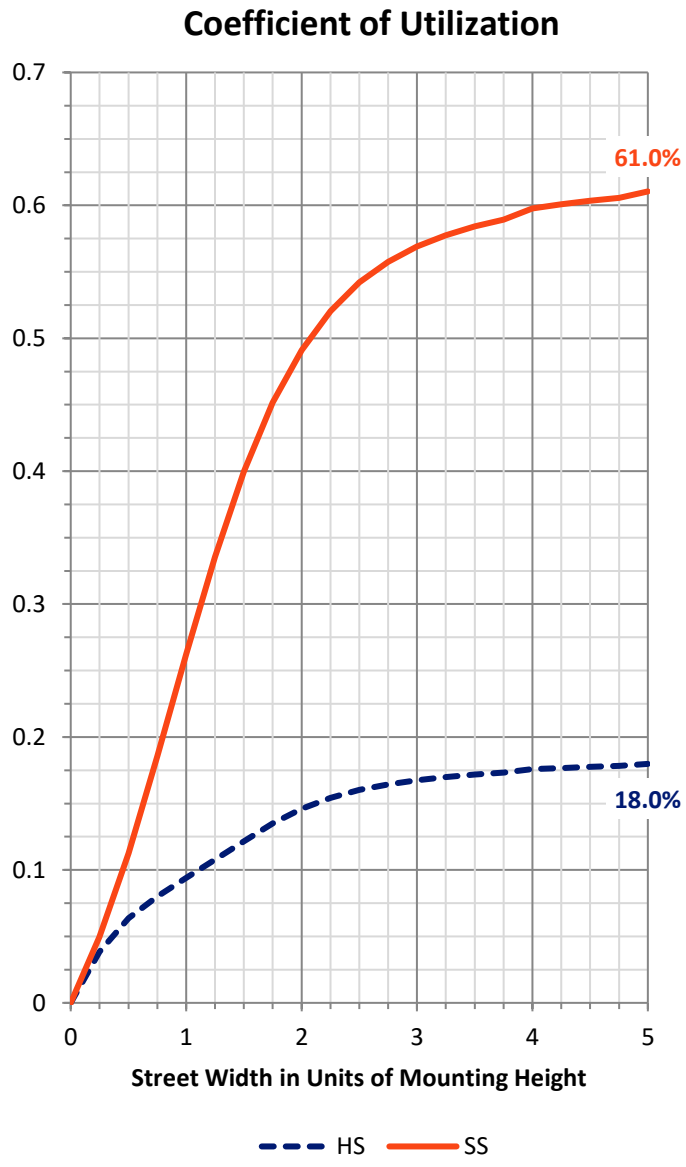
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2753.6	986.5	3740.0
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	9257.8	1692.3	10950.1
	% Fixture	63.0	11.5	74.5
Total	Lumens	12011.4	2678.8	14690.2
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.1
10°-20°	74.7	0.5
20°-30°	153.4	1.0
30°-40°	321.2	2.2
40°-50°	848.1	5.8
50°-60°	2822.1	19.2
60°-70°	4552.3	31.0
70°-80°	2388.0	16.3
80°-90°	837.9	5.7
90°-100°	541.0	3.7
100°-110°	350.8	2.4
110°-120°	384.8	2.6
120°-130°	647.2	4.4
130°-140°	379.1	2.6
140°-150°	202.9	1.4
150°-160°	100.8	0.7
160°-170°	53.0	0.4
170°-180°	19.2	0.1
0°-90°	12011.4	81.8
0°-180°	14690.2	100.0



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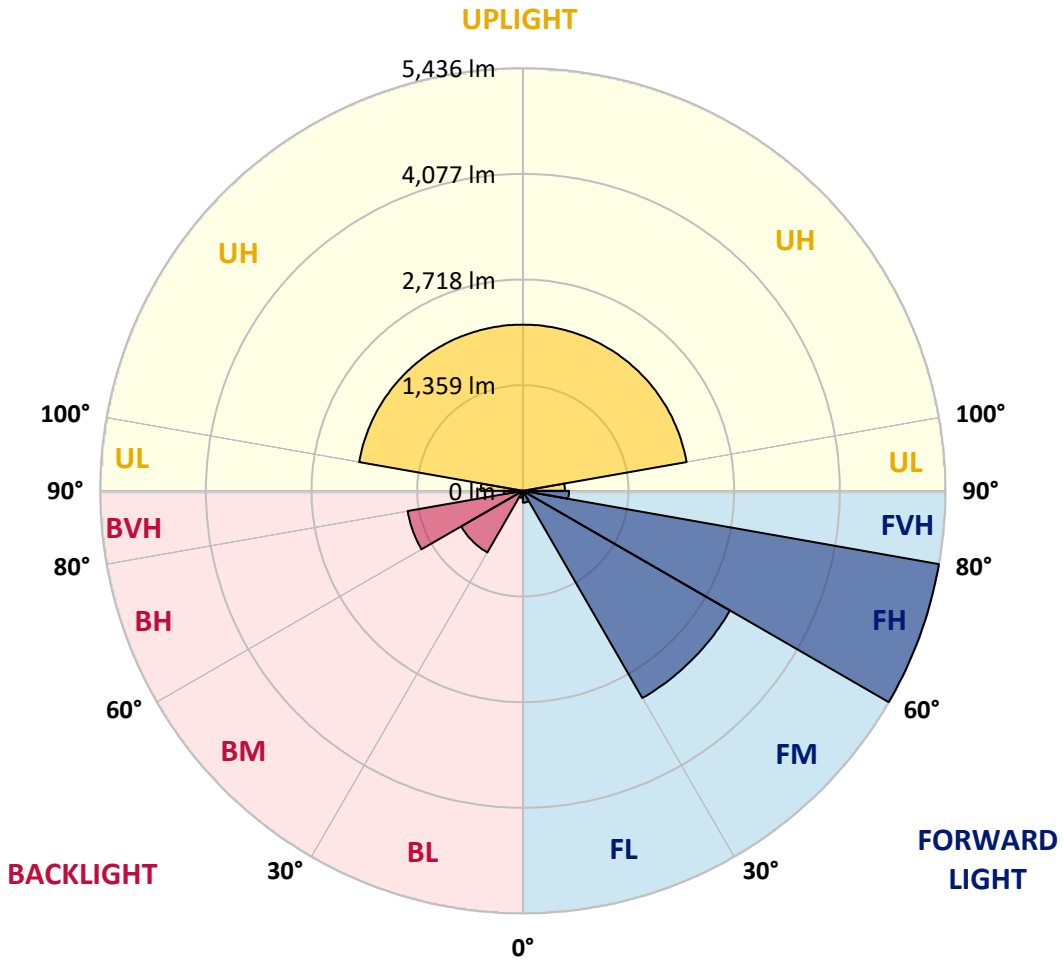
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	152.4	1.0			
FM	(30°-60°)	3076.5	20.9			
FH	(60°-80°)	5435.7	37.0			G3/7500
FVH	(80°-90°)	593.3	4.0			G4/750
BL	(0°-30°)	89.3	0.6	B0/110		
BM	(30°-60°)	915.0	6.2	B1/1000		
BH	(60°-80°)	1504.6	10.2	B3/2500		G3/2500
BVH	(80°-90°)	244.7	1.7			G3/500
UL	(90°-100°)	541.0	3.7		U4/1000	
UH	(100°-180°)	2137.8	14.6		U5	

BUG Rating: B3-U5-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	83.2	83.2	83.2	83.2	83.2	83.2	*83.2*	83.2	83.2	83.2	83.2
2.5°	83.2	85.1	90.0	91.9	92.9	90.9	*87.1*	90.9	90.9	90.9	90.0
5°	120.9	120.9	120.9	123.8	124.8	126.7	*124.8*	119.9	116.1	112.2	111.2
7.5°	169.3	171.2	172.2	172.2	172.2	176.1	*179.9*	171.2	163.5	155.7	153.8
10°	242.8	238.0	233.1	235.1	231.2	223.5	*227.3*	220.6	203.1	197.3	197.3
12.5°	310.5	309.5	311.5	300.8	295.0	278.6	*280.5*	276.7	264.1	243.8	237.0
15°	348.2	351.1	350.2	354.0	345.3	322.1	*316.3*	318.3	306.6	287.3	277.6
17.5°	367.6	367.6	368.6	373.4	373.4	351.1	*341.5*	336.6	327.0	310.5	297.9
20°	377.3	377.3	376.3	383.1	396.6	384.0	*370.5*	362.8	354.0	327.9	308.6
22.5°	404.3	402.4	399.5	401.4	421.8	417.9	*407.2*	395.6	383.1	343.4	319.2
25°	432.4	433.4	424.7	427.6	447.9	453.7	*445.0*	433.4	418.9	358.9	334.7
27.5°	464.3	463.4	451.7	455.6	466.3	487.5	*476.9*	471.1	446.9	371.5	348.2
30°	493.3	488.5	476.9	486.6	486.6	520.4	*510.8*	513.7	483.7	394.7	369.5
32.5°	514.6	513.7	506.9	519.5	512.7	556.2	*553.3*	577.5	533.0	440.1	416.9
35°	563.0	564.0	592.0	616.2	604.6	668.4	*682.0*	712.9	658.8	553.3	528.2
37.5°	911.2	899.6	860.9	816.4	822.2	941.2	*924.8*	941.2	858.0	706.2	666.5
40°	959.6	962.5	918.0	884.1	879.3	1031.2	*1056.3*	1189.8	1015.7	846.4	768.1
42.5°	934.4	944.1	1066.0	1109.5	1070.8	1264.3	*1272.0*	1529.4	1185.0	1043.8	940.3
45°	1185.0	1186.9	1212.1	1240.1	1245.0	1726.7	*1753.8*	2038.2	1507.1	1314.6	1139.5
47.5°	1348.5	1363.9	1398.8	1590.3	1691.9	2207.5	*2388.4*	2840.1	2007.2	1792.5	1447.1
50°	1906.6	1949.2	2121.4	2285.8	2444.5	3273.5	*3881.9*	4420.7	3015.2	2627.3	2103.0
52.5°	2323.5	2476.4	2668.9	3065.5	3232.8	4473.9	*5429.7*	5763.4	4223.4	3560.8	2865.3
55°	2685.3	2965.9	3173.8	3822.9	4141.2	5833.1	*6852.6*	6901.0	5667.6	4346.3	3674.0
57.5°	3430.2	3839.4	3974.8	4530.0	4973.1	7451.4	*8867.6*	8629.6	7141.9	5241.0	4536.8
60°	4131.5	4602.6	4552.3	5064.0	5650.2	8843.4	*10060.3*	9939.4	8523.2	6088.4	5291.3
62.5°	4359.8	4837.7	4795.1	5332.9	6121.3	9492.5	*10776.1*	10575.9	9338.7	6618.5	5670.5
65°	*4459.4*	*4963.4*	*4951.8*	*5454.8*	*6127.1*	*9596.0*	*11193.1*	*10895.1*	*9595.0*	*6832.3*	*5836.9*
67.5°	4374.3	4854.1	4849.3	5312.6	5680.2	8845.3	*10629.1*	10189.9	8963.4	6329.3	5478.0
70°	3774.6	4108.3	4088.0	4372.4	4564.9	7030.6	*8625.8*	8294.0	7233.8	5201.4	4537.8
72.5°	3078.1	3176.7	3219.3	3381.8	3433.1	5145.3	*6468.6*	6204.5	5393.9	3895.5	3440.8
75°	2458.0	2462.8	2507.3	2564.4	2547.0	3785.2	*5095.0*	4931.5	3977.7	2905.9	2609.9
77.5°	1627.1	1614.5	1809.9	1833.1	1721.9	2411.6	*3804.5*	3689.4	2846.9	2117.5	1908.6
80°	933.5	937.4	1070.8	1155.0	1110.5	1532.3	*2607.0*	2581.8	1955.0	1482.0	1310.7
82.5°	696.5	729.4	801.0	845.5	828.0	1152.1	*1734.4*	1781.8	1389.1	1066.0	974.1
85°	775.8	794.2	801.9	804.8	783.5	1077.6	*1400.7*	1397.8	1167.6	894.8	863.8
87.5°	755.5	771.0	777.7	781.6	760.3	1030.2	*1323.3*	1304.0	1120.2	860.0	814.5
90°	635.5	671.3	670.4	704.2	680.0	905.4	*1160.8*	1148.2	1016.7	792.3	739.0
92.5°	533.0	553.3	566.9	613.3	592.0	797.1	*1043.8*	1014.7	910.3	720.7	663.6
95°	498.2	516.6	527.2	553.3	527.2	688.7	*879.3*	853.2	755.5	600.7	545.6
97.5°	419.8	425.6	435.3	452.7	435.3	558.2	*712.0*	686.8	606.5	490.4	451.7
100°	356.0	361.8	374.4	386.9	378.2	477.9	*595.9*	582.3	521.4	426.6	400.5
102.5°	336.6	340.5	356.9	364.7	354.0	439.2	*526.2*	526.2	472.1	393.7	372.4
105°	321.2	326.0	338.6	341.5	333.7	404.3	*485.6*	480.8	438.2	368.6	348.2
107.5°	305.7	311.5	322.1	317.3	313.4	372.4	*436.3*	444.0	407.2	350.2	336.6
110°	322.1	324.1	332.8	325.0	331.8	370.5	*438.2*	440.1	429.5	382.1	367.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	438.2	427.6	445.9	416.9	439.2	466.3	*508.8*	524.3	511.7	457.6	445.0
115°	479.8	487.5	506.9	477.9	492.4	525.3	*545.6*	548.5	534.0	499.1	494.3
117.5°	374.4	413.1	392.7	410.2	416.0	461.4	*507.9*	521.4	507.9	459.5	489.5
120°	478.8	509.8	440.1	418.9	447.9	527.2	*569.8*	581.4	544.6	545.6	564.0
122.5°	794.2	811.6	855.1	877.4	843.5	891.9	*906.4*	917.0	860.9	795.2	762.3
125°	1205.3	1192.7	1186.9	1181.1	1172.4	1223.7	*1233.4*	1206.3	1150.2	1058.3	1007.0
127.5°	1090.2	1100.8	1117.3	1115.3	1107.6	1147.3	*1171.4*	1155.0	1139.5	1051.5	1021.5
130°	784.5	789.3	818.4	870.6	864.8	896.7	*899.6*	916.1	942.2	903.5	872.5
132.5°	650.1	654.9	698.4	721.6	723.6	724.5	*711.0*	748.7	775.8	737.1	711.0
135°	566.9	566.9	576.5	567.8	570.7	595.9	*607.5*	641.3	648.1	629.7	603.6
137.5°	501.1	503.0	482.7	466.3	469.2	514.6	*540.7*	566.9	553.3	515.6	497.2
140°	436.3	425.6	397.6	392.7	414.0	457.6	*473.0*	491.4	495.3	446.9	422.7
142.5°	321.2	317.3	329.9	356.0	367.6	440.1	*428.5*	463.4	465.3	384.0	344.4
145°	358.9	357.9	356.9	361.8	388.9	494.3	*466.3*	510.8	532.0	408.2	333.7
147.5°	405.3	404.3	395.6	385.0	425.6	451.7	*426.6*	465.3	488.5	405.3	323.1
150°	313.4	315.4	310.5	307.6	352.1	347.3	*341.5*	352.1	361.8	335.7	294.1
152.5°	243.8	239.9	237.0	238.0	274.7	268.9	*268.9*	276.7	277.6	268.0	246.7
155°	219.6	218.6	216.7	220.6	242.8	237.0	*232.2*	230.2	225.4	222.5	219.6
157.5°	206.0	204.1	204.1	209.9	225.4	215.7	*213.8*	211.8	208.9	208.9	209.9
160°	192.5	191.5	191.5	200.2	205.1	196.4	*194.4*	193.5	192.5	194.4	196.4
162.5°	184.8	184.8	184.8	190.6	190.6	184.8	*182.8*	181.9	182.8	189.6	190.6
165°	181.9	180.9	181.9	184.8	183.8	179.9	*179.0*	179.0	181.9	187.7	188.6
167.5°	186.7	186.7	186.7	187.7	186.7	182.8	*181.9*	181.9	184.8	189.6	189.6
170°	194.4	193.5	193.5	193.5	192.5	188.6	*186.7*	187.7	188.6	191.5	191.5
172.5°	201.2	201.2	200.2	199.3	197.3	195.4	*193.5*	193.5	193.5	194.4	194.4
175°	208.9	208.9	208.9	208.0	208.0	205.1	*204.1*	203.1	202.2	201.2	200.2
177.5°	217.7	216.7	216.7	216.7	216.7	213.8	*211.8*	210.9	208.9	208.0	208.0
180°	213.8	213.8	213.8	213.8	213.8	213.8	*213.8*	213.8	213.8	213.8	213.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2.5°	90.0	87.1	82.2	73.5	70.6	67.7	64.8	59.0	56.1	54.2
5°	110.3	106.4	105.4	100.6	93.8	88.0	87.1	85.1	84.2	81.3
7.5°	157.7	159.6	164.4	155.7	136.4	125.8	128.7	139.3	135.4	134.5
10°	198.3	210.9	220.6	198.3	163.5	141.2	142.2	163.5	165.4	169.3
12.5°	232.2	242.8	240.9	212.8	179.9	158.6	151.9	163.5	174.1	175.1
15°	268.9	250.5	243.8	220.6	197.3	180.9	178.0	180.9	180.9	179.0
17.5°	284.4	252.5	233.1	213.8	197.3	185.7	181.9	177.0	170.3	170.3
20°	288.3	260.2	238.0	217.7	201.2	188.6	178.0	172.2	170.3	170.3
22.5°	299.9	274.7	251.5	227.3	209.9	193.5	180.9	175.1	175.1	176.1
25°	316.3	293.1	264.1	238.9	220.6	203.1	186.7	178.0	177.0	178.0
27.5°	336.6	312.5	280.5	253.4	232.2	212.8	192.5	181.9	178.0	178.0
30°	359.8	331.8	296.0	266.0	242.8	225.4	200.2	185.7	180.9	179.0
32.5°	401.4	369.5	315.4	282.5	256.3	237.0	211.8	193.5	183.8	181.9
35°	504.0	454.6	384.0	324.1	284.4	250.5	220.6	198.3	185.7	183.8
37.5°	615.2	540.7	474.0	407.2	349.2	294.1	237.0	206.0	190.6	187.7
40°	684.9	587.2	528.2	428.5	420.8	375.3	291.2	227.3	200.2	196.4
42.5°	828.0	682.0	588.1	378.2	411.1	420.8	367.6	285.4	226.4	219.6
45°	997.3	801.9	659.7	404.3	423.7	412.1	376.3	330.8	282.5	268.9
47.5°	1292.4	915.1	684.9	469.2	484.6	452.7	399.5	352.1	316.3	311.5
50°	1865.0	1247.9	771.0	576.5	623.0	534.0	465.3	428.5	380.2	374.4
52.5°	2602.1	1502.3	865.8	745.8	851.3	741.0	629.7	555.3	544.6	548.5
55°	3401.2	1580.6	990.6	921.9	1106.6	1003.1	875.4	803.9	874.5	896.7
57.5°	4193.4	1698.6	1171.4	1150.2	1385.2	1227.6	1126.9	1157.9	1452.0	1522.6
60°	4817.3	1799.2	1324.3	1369.8	1660.9	1489.7	1447.1	1492.6	1997.6	2185.2
62.5°	5062.1	1753.8	1403.6	1462.6	1790.5	1673.5	1659.0	1702.5	2128.1	2312.9
65°	*5080.5*	*1684.1*	*1434.6*	*1487.8*	*1810.9*	*1686.1*	*1646.4*	*1609.7*	*1905.7*	*2022.7*
67.5°	4701.3	1544.8	1396.8	1452.0	1720.9	1555.5	1473.3	1390.1	1541.9	1606.7
70°	3790.0	1369.8	1278.8	1310.7	1447.1	1294.3	1182.1	1125.0	1179.2	1174.3
72.5°	2871.1	1206.3	1149.2	1117.3	1182.1	1058.3	934.4	879.3	927.7	915.1
75°	2193.0	1076.6	1023.4	917.0	979.9	812.6	676.2	638.4	661.7	653.0
77.5°	1582.6	862.9	792.3	675.2	756.5	591.0	453.7	426.6	432.4	414.0
80°	1139.5	643.3	574.6	491.4	556.2	422.7	336.6	330.8	333.7	314.4
82.5°	894.8	515.6	470.1	425.6	445.9	382.1	324.1	318.3	321.2	299.9
85°	833.8	505.0	457.6	428.5	435.3	376.3	314.4	312.5	317.3	294.1
87.5°	786.4	500.1	462.4	420.8	404.3	345.3	291.2	299.9	313.4	289.2
90°	693.6	466.3	433.4	395.6	378.2	324.1	291.2	303.7	302.8	285.4
92.5°	611.4	416.0	389.8	368.6	364.7	329.9	304.7	316.3	320.2	302.8
95°	501.1	351.1	338.6	331.8	337.6	303.7	282.5	288.3	284.4	274.7
97.5°	426.6	320.2	311.5	301.8	296.0	271.8	253.4	261.2	265.1	256.3
100°	386.0	304.7	297.9	287.3	286.3	269.9	260.2	275.7	287.3	282.5
102.5°	360.8	289.2	280.5	270.9	268.0	254.4	246.7	256.3	267.0	257.3
105°	342.4	274.7	261.2	252.5	247.6	238.0	228.3	232.2	243.8	238.9
107.5°	325.0	273.8	252.5	245.7	245.7	233.1	219.6	220.6	226.4	225.4
110°	352.1	303.7	265.1	255.4	252.5	248.6	238.9	229.3	221.5	221.5

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

Scaled Data Report

REPORT NUMBER: P981434
CATALOG NUMBER: FFX-CLB-90-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	421.8	372.4	332.8	301.8	289.2	274.7	254.4	239.9	229.3	226.4
115°	452.7	399.5	361.8	327.9	298.9	270.9	253.4	242.8	237.0	242.8
117.5°	426.6	353.1	348.2	313.4	286.3	264.1	259.2	241.8	251.5	251.5
120°	479.8	410.2	399.5	349.2	311.5	283.4	280.5	277.6	267.0	262.1
122.5°	701.3	610.4	566.9	492.4	427.6	369.5	336.6	291.2	259.2	252.5
125°	952.8	832.9	728.4	629.7	532.0	428.5	341.5	273.8	240.9	236.0
127.5°	955.7	833.8	718.7	598.8	492.4	384.0	306.6	259.2	236.0	235.1
130°	840.6	734.2	607.5	488.5	402.4	330.8	274.7	236.0	219.6	214.7
132.5°	669.4	574.6	493.3	419.8	354.0	293.1	242.8	215.7	206.0	205.1
135°	563.0	480.8	423.7	369.5	318.3	264.1	217.7	204.1	199.3	197.3
137.5°	459.5	410.2	375.3	331.8	282.5	238.0	207.0	201.2	199.3	195.4
140°	398.5	365.7	327.9	279.6	241.8	205.1	188.6	193.5	198.3	197.3
142.5°	325.0	300.8	272.8	240.9	214.7	198.3	191.5	194.4	194.4	195.4
145°	308.6	276.7	261.2	241.8	224.4	211.8	195.4	189.6	188.6	188.6
147.5°	286.3	273.8	264.1	250.5	224.4	201.2	182.8	179.9	183.8	182.8
150°	268.0	259.2	247.6	226.4	200.2	184.8	175.1	176.1	182.8	183.8
152.5°	227.3	222.5	214.7	201.2	182.8	175.1	170.3	174.1	179.0	179.9
155°	202.2	199.3	197.3	188.6	177.0	172.2	170.3	173.2	178.0	179.0
157.5°	200.2	193.5	190.6	184.8	176.1	171.2	171.2	174.1	177.0	178.0
160°	194.4	185.7	184.8	179.0	177.0	174.1	176.1	177.0	179.9	179.0
162.5°	189.6	183.8	182.8	179.0	180.9	183.8	183.8	184.8	186.7	185.7
165°	187.7	182.8	181.9	181.9	187.7	192.5	193.5	192.5	192.5	192.5
167.5°	189.6	186.7	185.7	187.7	192.5	198.3	199.3	197.3	195.4	194.4
170°	192.5	191.5	192.5	193.5	196.4	200.2	200.2	198.3	198.3	198.3
172.5°	195.4	197.3	198.3	198.3	201.2	203.1	204.1	203.1	203.1	203.1
175°	201.2	202.2	202.2	203.1	206.0	208.0	209.9	209.9	209.9	209.9
177.5°	208.0	208.0	208.0	208.9	209.9	212.8	213.8	215.7	216.7	216.7
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-1

Test Date: 03/20/2025

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

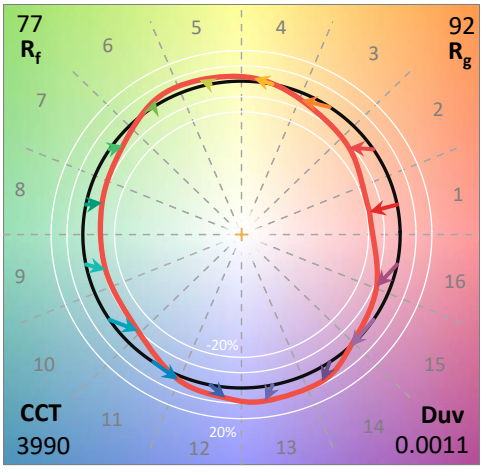
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

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

Rf:	77.5
Rg:	91.9



Test Conditions

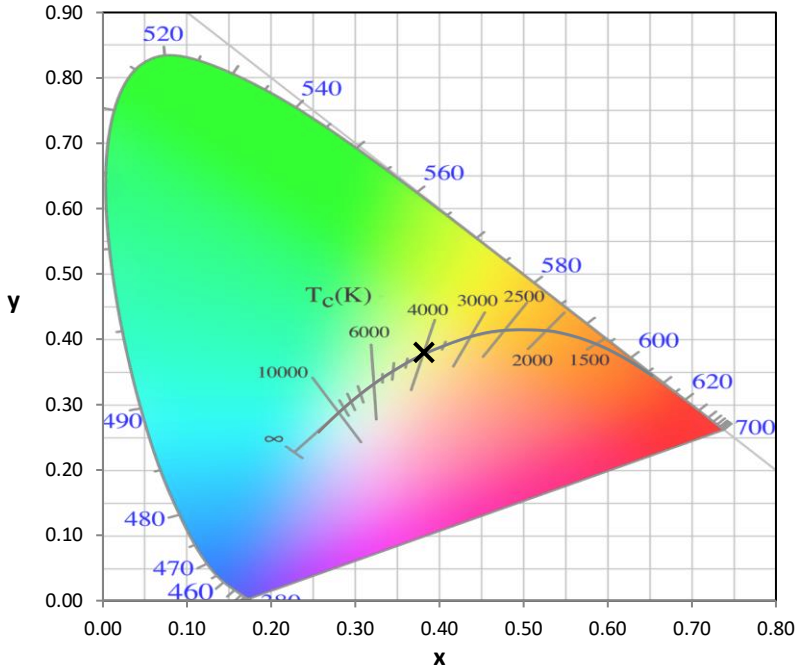
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

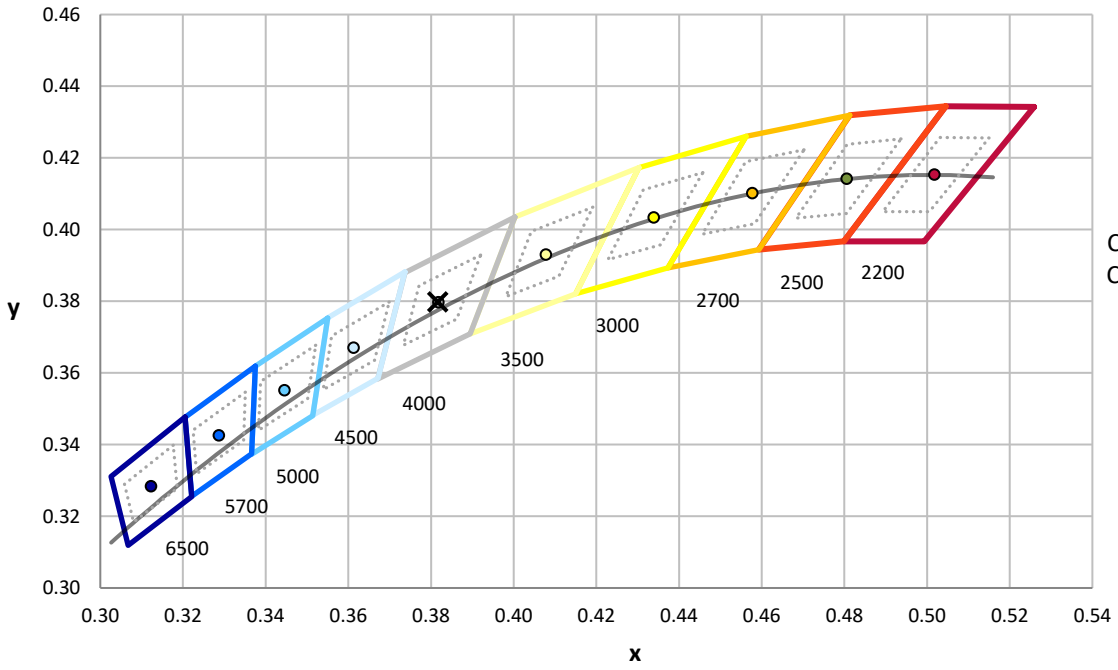
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

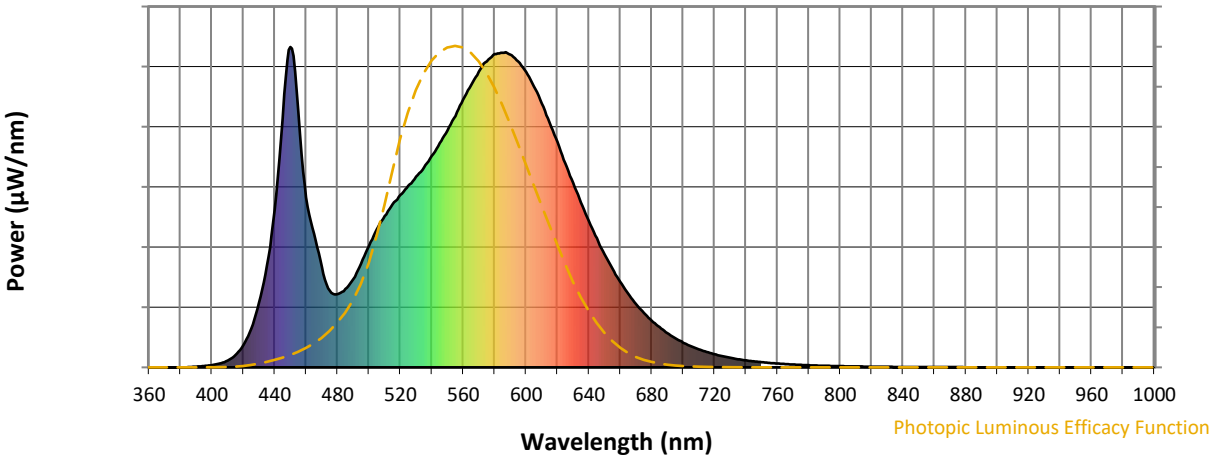


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

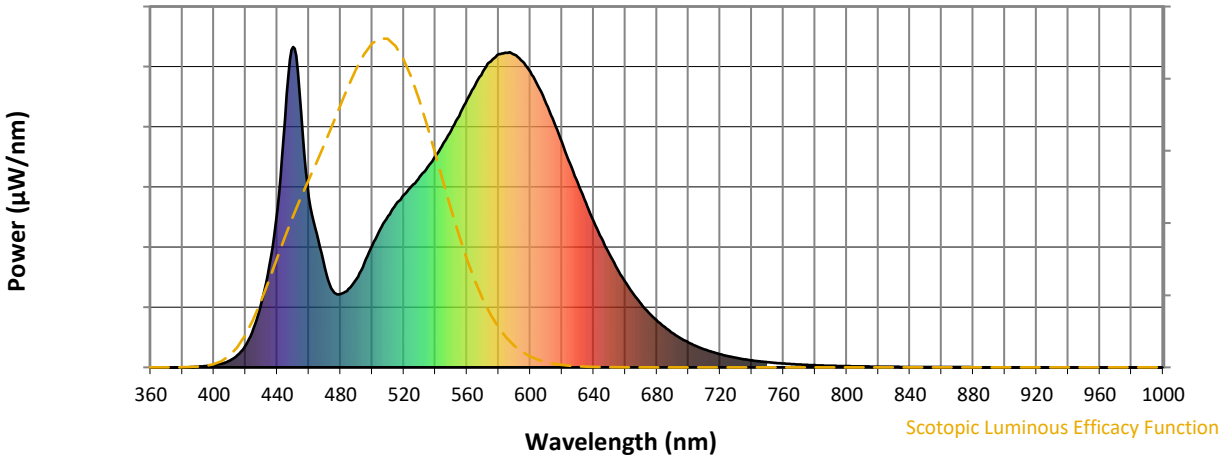


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

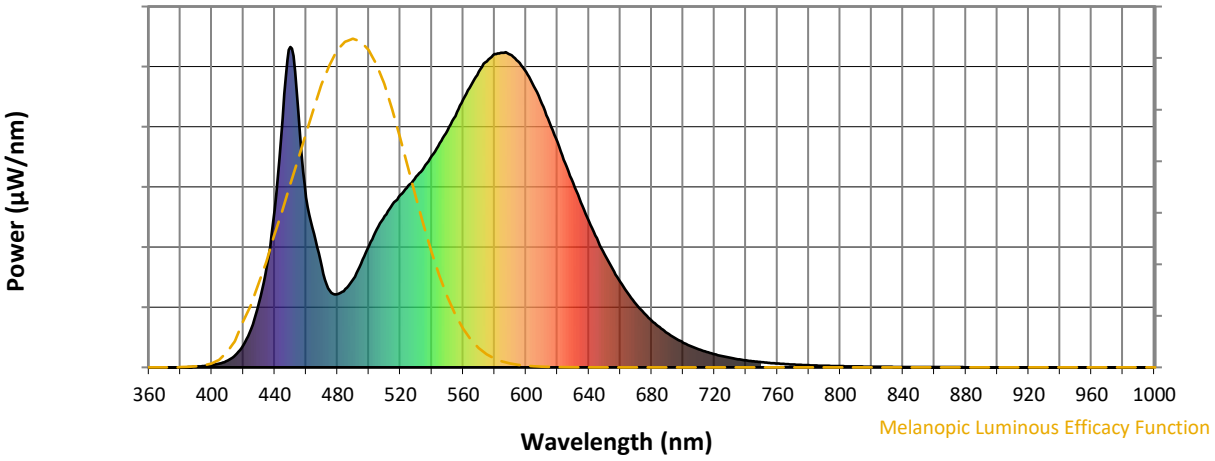


Scotopic Lumens: NR **S/P: 1.59**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

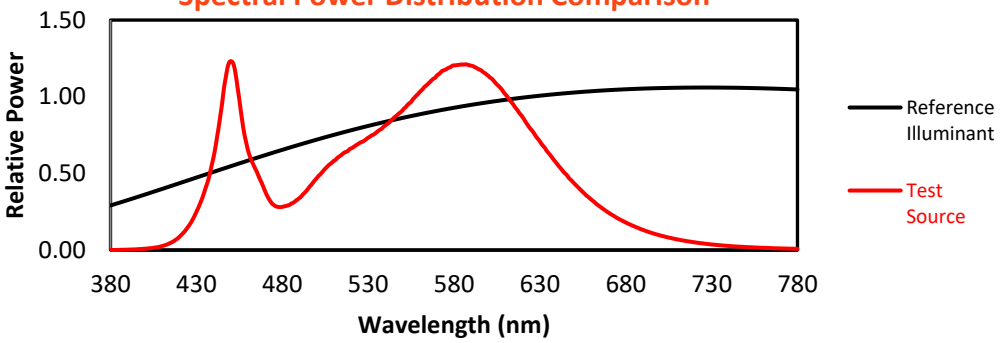
REPORT NUMBER: SP1-2501-332-1

TM-30-18

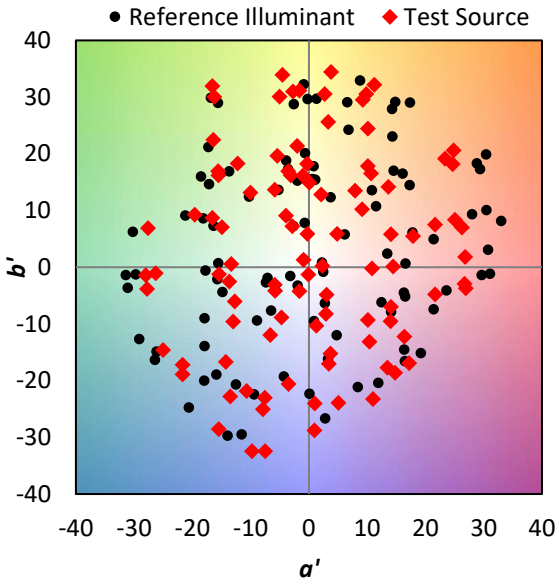
Summary

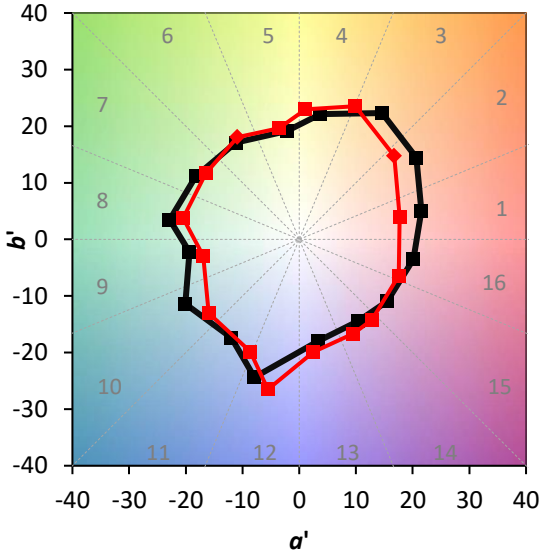
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

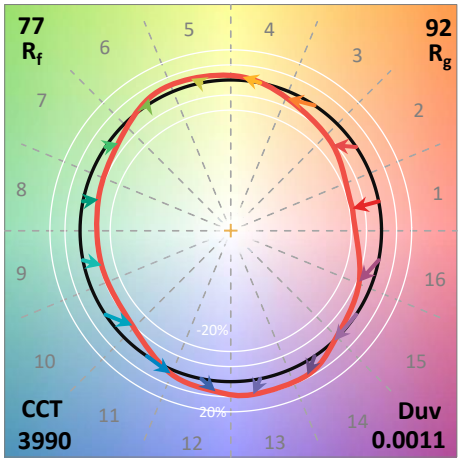
Spectral Power Distribution Comparison

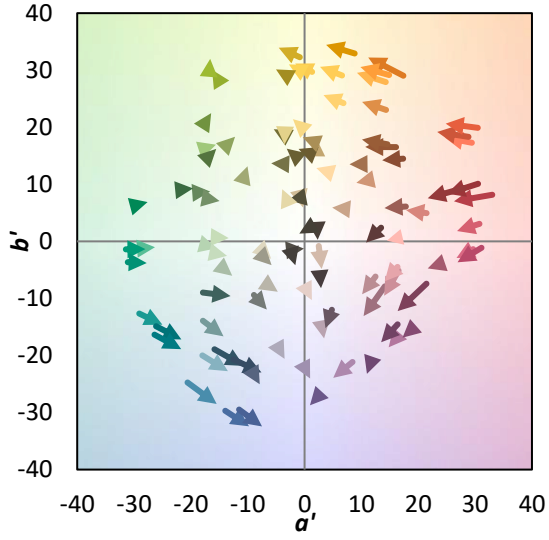


Color Vector Graphics







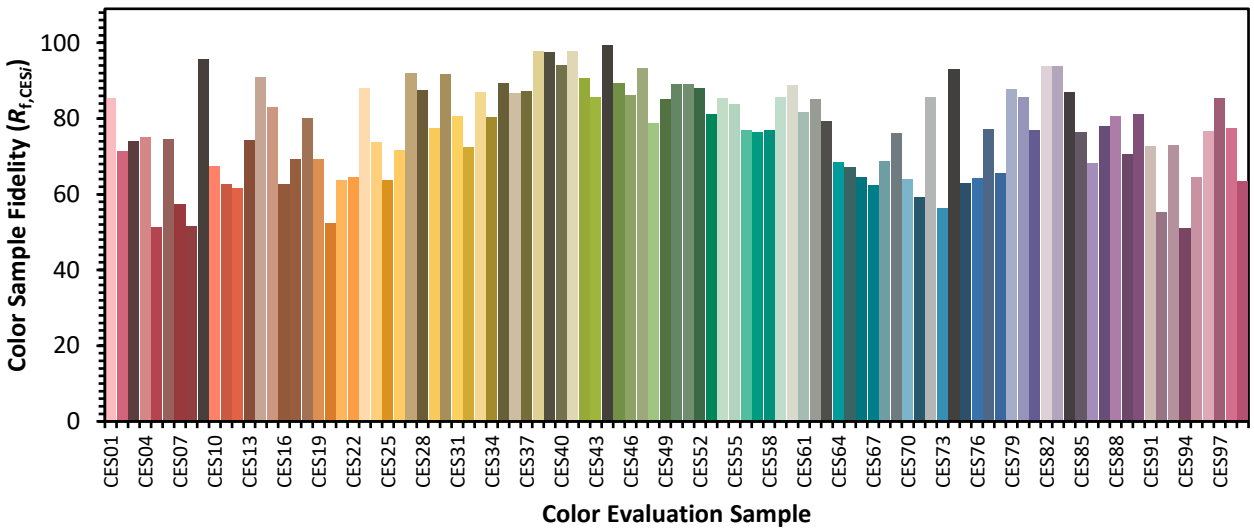


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

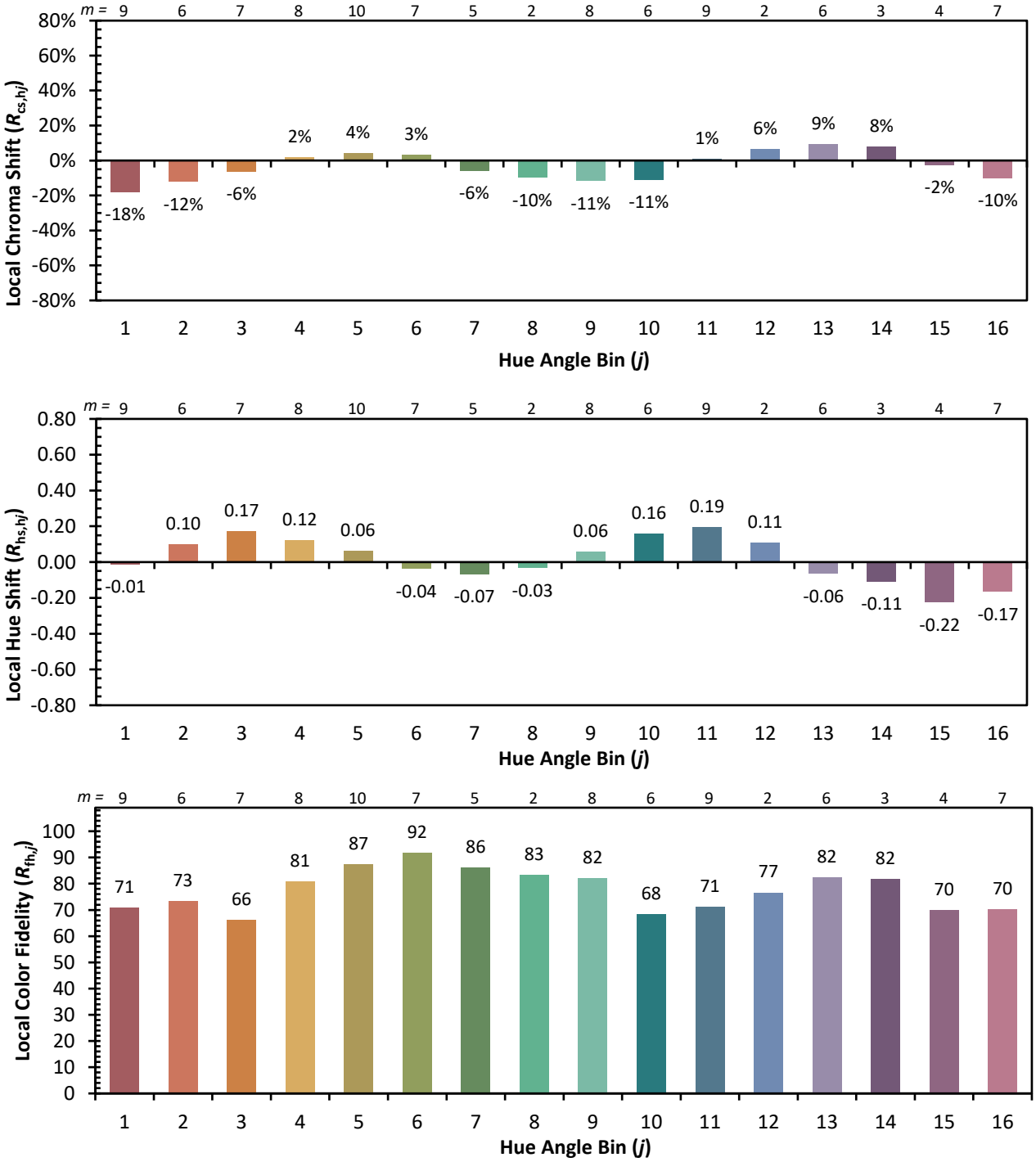
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57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



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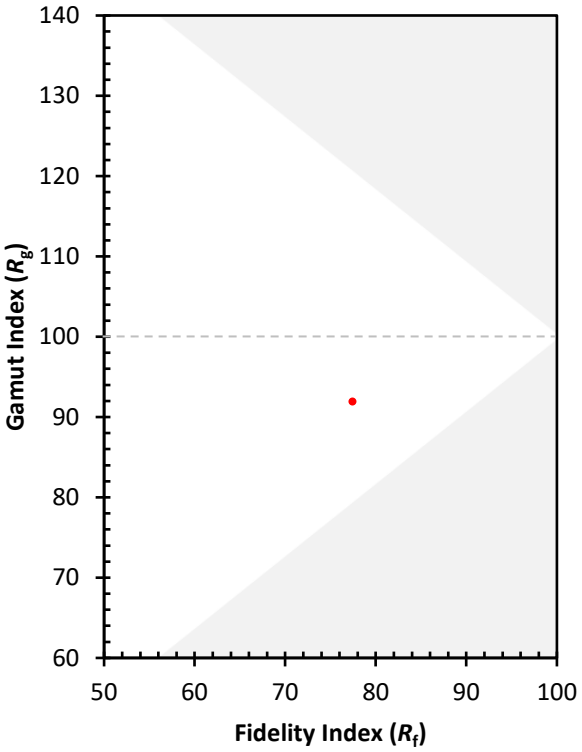
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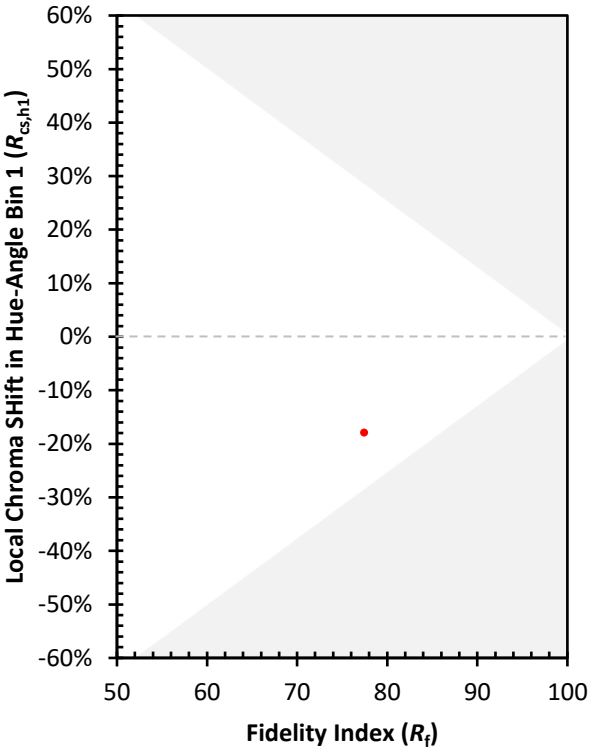


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Measure Comparisons





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