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: P1045898

Luminaire Tested: **FFX-CLB-60-740-U-VM9-T5-HSS**

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:	P1045898
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-740-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6769.8 lumens
Efficiency:	N/A
Efficacy:	111.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G4

Input Watts (W):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

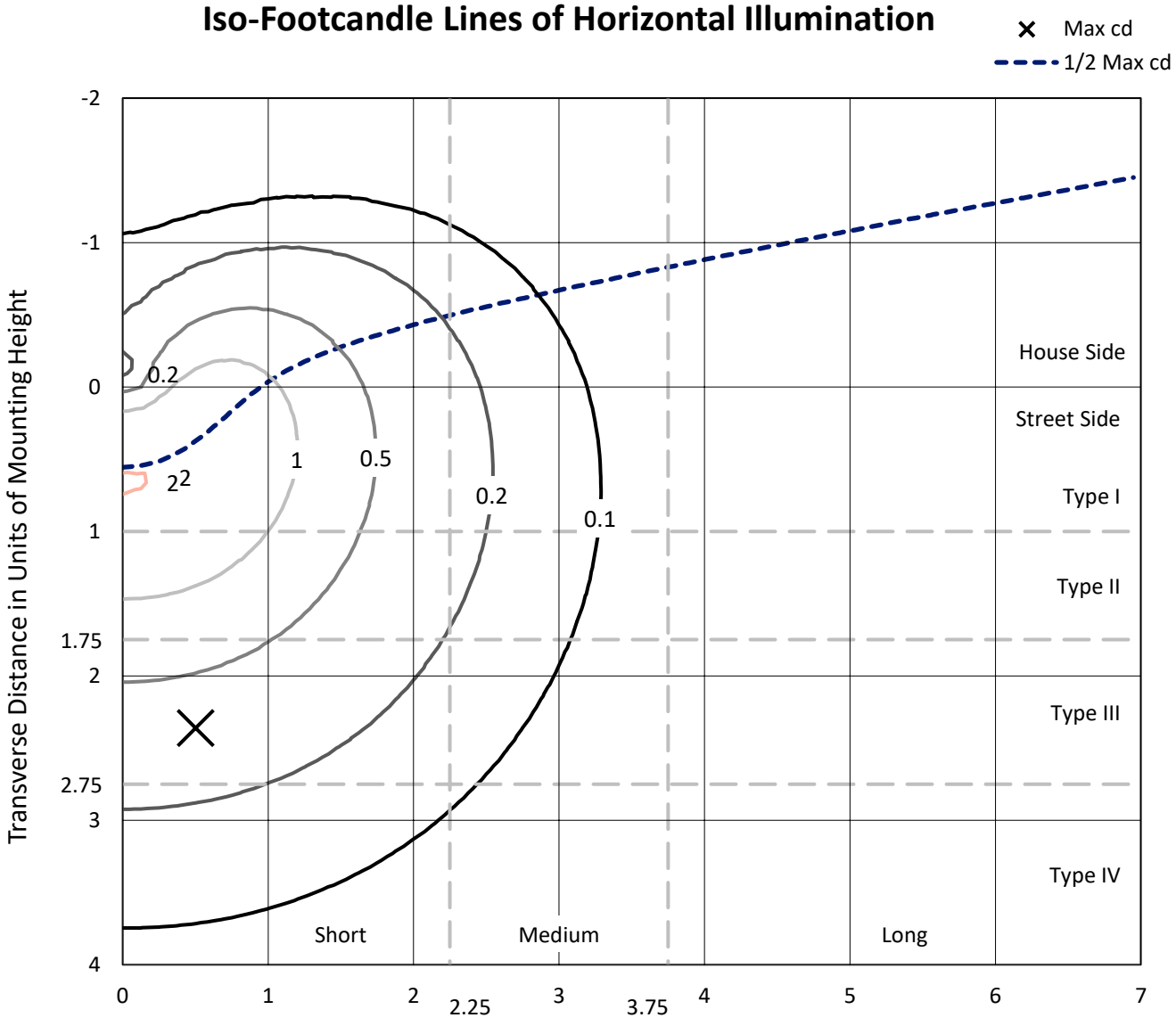


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Iso-Footcandle Lines of Horizontal Illumination



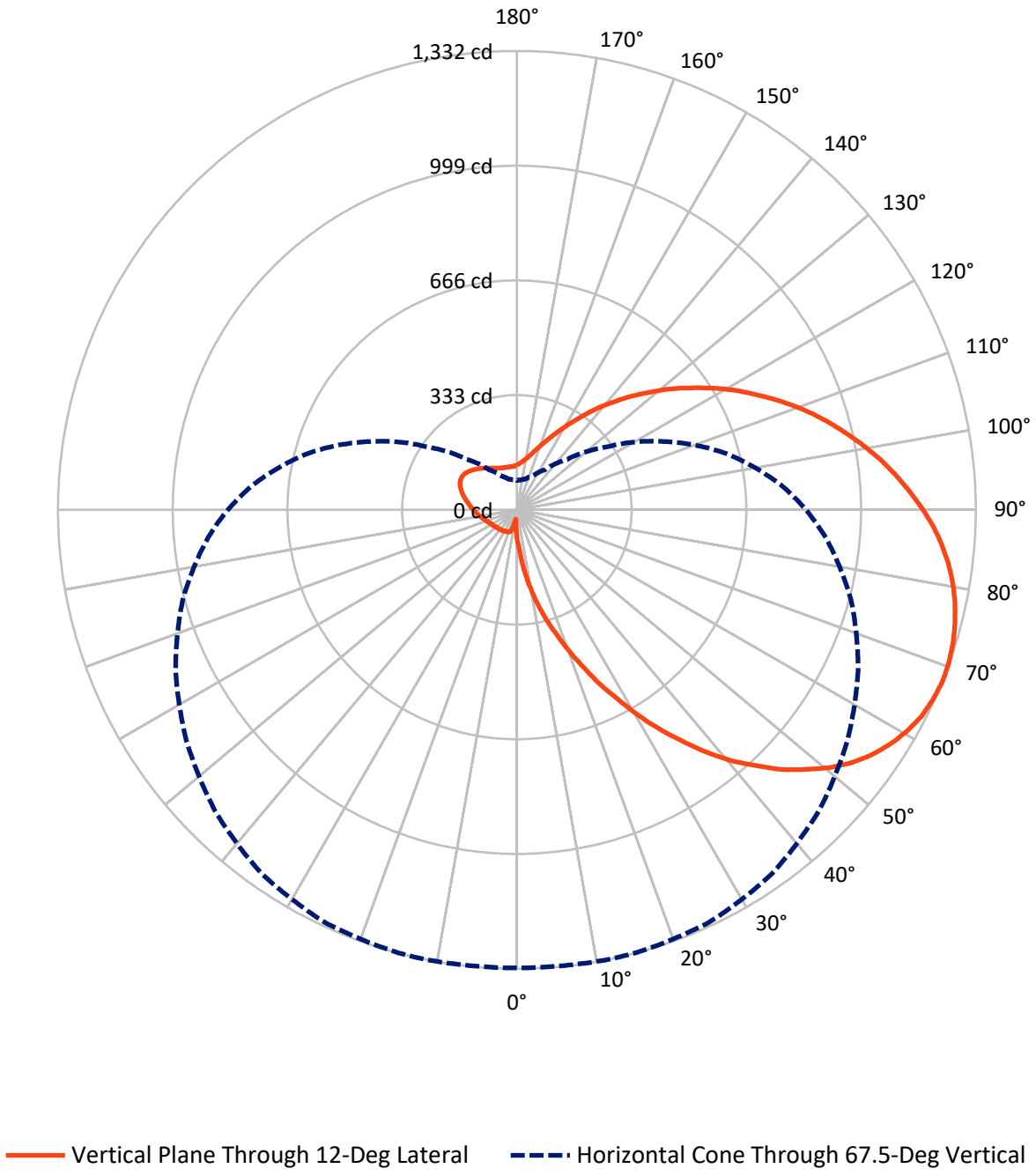
Based on 15 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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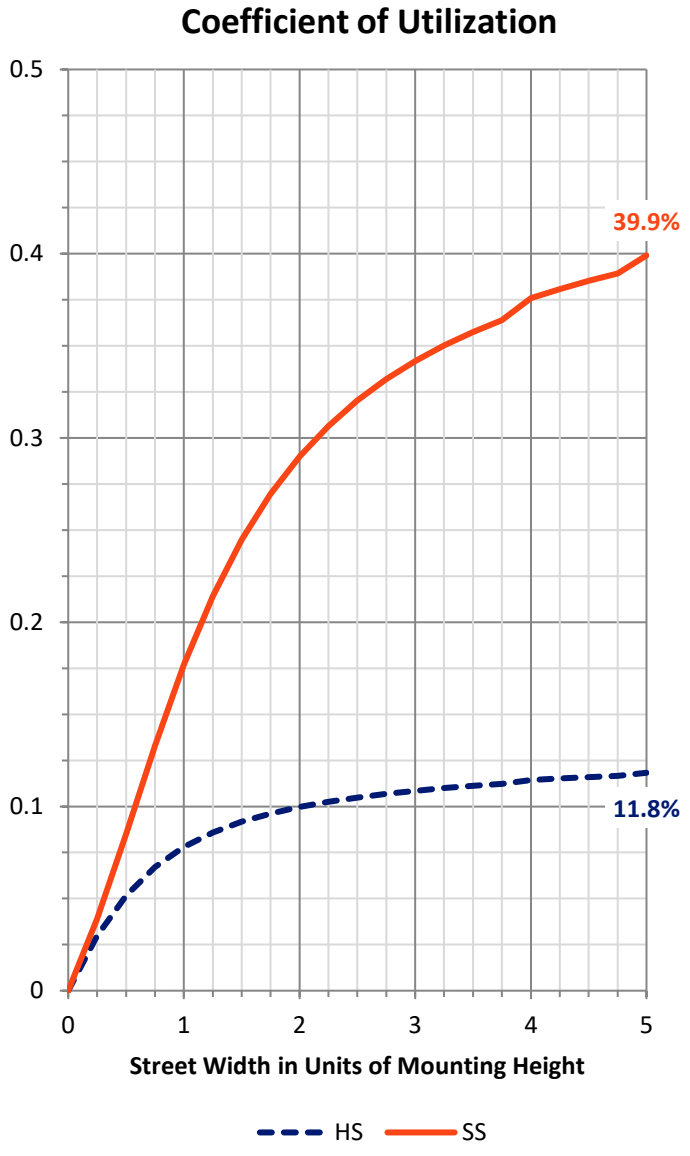
REPORT NUMBER: P1045898
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	871.2	843.2	1714.4
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	3080.2	1975.1	5055.4
	% Fixture	45.5	29.2	74.7
Total	Lumens	3951.4	2818.3	6769.8
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	0.2
10°-20°	60.3	0.9
20°-30°	157.1	2.3
30°-40°	304.9	4.5
40°-50°	478.8	7.1
50°-60°	635.5	9.4
60°-70°	740.6	10.9
70°-80°	786.8	11.6
80°-90°	776.9	11.5
90°-100°	716.3	10.6
100°-110°	625.1	9.2
110°-120°	513.9	7.6
120°-130°	389.1	5.7
130°-140°	265.8	3.9
140°-150°	162.9	2.4
150°-160°	89.4	1.3
160°-170°	43.1	0.6
170°-180°	12.7	0.2
0°-90°	3951.4	58.4
0°-180°	6769.8	100.0



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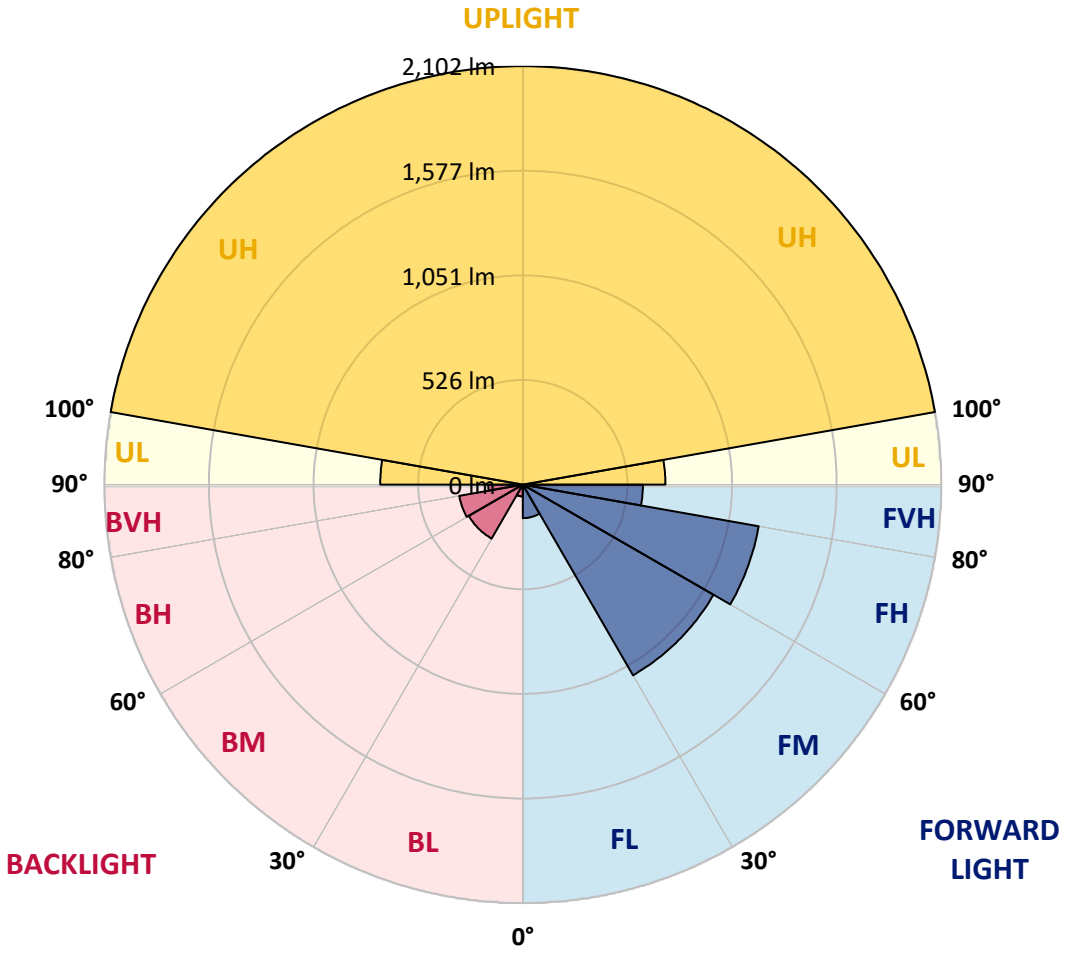
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	168.2	2.5			
FM	(30°-60°)	1106.0	16.3			
FH	(60°-80°)	1203.0	17.8			G1/1800
FVH	(80°-90°)	603.0	8.9			G4/750
BL	(0°-30°)	59.7	0.9	B0/110		
BM	(30°-60°)	313.2	4.6	B1/1000		
BH	(60°-80°)	324.4	4.8	B1/500		G1/500
BVH	(80°-90°)	173.9	2.6			G2/225
UL	(90°-100°)	716.3	10.6		U4/1000	
UH	(100°-180°)	2102.0	31.1		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
2.5°	107.2	109.5	107.2	110.2	108.7	108.7	105.0	101.3	96.1	90.1	84.9
5°	151.9	151.2	148.2	151.2	148.2	144.5	138.5	128.8	119.2	110.2	99.1
7.5°	198.1	198.8	196.6	195.9	189.2	184.0	174.3	164.6	152.7	139.3	125.9
10°	248.0	246.5	242.8	243.5	236.1	225.7	214.5	203.3	189.9	174.3	157.1
12.5°	294.2	294.2	291.2	291.9	283.7	271.8	262.9	248.0	231.6	213.0	192.1
15°	343.3	340.3	338.9	338.9	330.7	320.2	310.6	294.2	274.8	254.0	230.1
17.5°	388.8	388.0	386.5	387.3	379.8	370.9	355.2	338.9	315.8	290.5	265.9
20°	446.8	443.9	441.6	437.9	433.4	421.5	406.6	385.0	361.9	334.4	301.6
22.5°	499.7	503.4	497.5	494.5	488.6	478.9	457.3	436.4	408.9	376.8	341.1
25°	560.8	563.8	561.5	557.8	549.6	536.2	516.1	493.0	460.3	423.8	381.3
27.5°	624.8	627.1	621.1	622.6	608.5	595.8	575.7	547.4	516.1	472.9	428.2
30°	688.1	692.6	690.4	685.2	673.2	662.1	638.2	608.5	572.7	525.0	473.7
32.5°	762.6	757.4	758.1	752.2	744.7	726.9	706.0	672.5	630.8	580.2	521.3
35°	831.9	829.6	823.7	826.7	814.0	797.6	771.6	735.8	690.4	634.5	569.7
37.5°	893.7	895.9	892.2	890.0	881.8	863.2	832.6	796.1	744.0	685.2	614.4
40°	957.0	958.5	957.7	957.7	946.6	925.7	894.4	853.5	799.9	736.6	659.8
42.5°	1017.3	1018.8	1015.1	1015.8	1006.9	985.3	951.8	908.6	849.0	782.7	699.3
45°	1075.4	1075.4	1075.4	1074.7	1062.0	1041.9	1007.6	958.5	898.9	823.7	735.8
47.5°	1129.0	1127.5	1126.8	1126.8	1118.6	1094.8	1058.3	1004.7	939.9	860.9	771.6
50°	1176.7	1177.4	1176.7	1175.2	1162.5	1143.2	1102.2	1046.4	977.8	896.7	801.3
52.5°	1217.7	1218.4	1219.1	1215.4	1207.2	1184.1	1138.7	1079.1	1009.9	925.0	825.9
55°	1250.4	1251.9	1253.4	1251.9	1243.7	1216.2	1170.7	1110.4	1035.9	948.8	847.5
57.5°	1281.0	1280.2	1281.0	1279.5	1270.5	1243.7	1196.8	1132.0	1056.8	968.2	863.9
60°	1301.8	1302.6	1302.6	1302.6	1292.1	1264.6	1214.7	1148.4	1071.7	983.1	878.1
62.5°	1316.0	1316.7	1318.9	1317.5	1307.8	1278.7	1227.3	1160.3	1082.9	992.7	887.7
65°	1325.6	1326.4	1327.9	1326.4	1317.5	1287.7	1235.5	1167.8	1090.3	1000.2	894.4
67.5°	1330.1	1330.1	1332.3	1331.6	1321.2	1290.6	1238.5	1170.7	1093.3	1003.9	898.9
70°	1327.9	1328.6	1330.1	1329.4	1318.9	1288.4	1236.3	1169.2	1092.5	1003.9	899.7
72.5°	1322.7	1322.7	1324.2	1322.7	1313.0	1282.4	1231.1	1164.8	1088.8	1002.4	898.9
75°	1312.2	1313.0	1313.7	1313.0	1302.6	1272.8	1222.1	1156.6	1082.9	997.2	895.9
77.5°	1299.6	1300.3	1300.3	1300.3	1289.2	1259.4	1210.2	1146.2	1074.7	991.3	890.7
80°	1281.0	1281.7	1283.2	1281.7	1270.5	1243.7	1194.6	1133.5	1064.2	981.6	884.0
82.5°	1260.1	1259.4	1261.6	1260.9	1249.7	1222.9	1174.5	1116.4	1048.6	970.4	874.3
85°	1234.0	1234.0	1235.5	1234.0	1224.4	1196.1	1150.6	1095.5	1030.7	954.0	862.4
87.5°	1205.0	1205.0	1206.5	1203.5	1192.3	1167.8	1124.6	1070.9	1011.4	937.6	849.0
90°	1170.7	1172.2	1172.2	1170.0	1158.8	1135.0	1095.5	1044.1	986.0	917.5	833.4
92.5°	1138.0	1138.0	1136.5	1136.5	1124.6	1100.7	1064.2	1017.3	963.0	897.4	816.2
95°	1103.0	1103.0	1100.7	1099.2	1087.3	1067.2	1032.2	989.0	936.9	876.6	799.1
97.5°	1065.7	1065.0	1063.5	1062.0	1050.1	1030.7	999.4	957.7	910.1	852.7	780.5
100°	1027.7	1028.5	1023.3	1022.5	1010.6	994.2	964.4	925.7	881.8	828.2	760.4
102.5°	986.0	987.5	983.1	982.3	970.4	952.5	928.7	893.7	854.2	805.1	740.3
105°	948.8	945.1	942.8	941.4	930.9	914.5	889.2	861.7	824.4	778.3	717.9
107.5°	906.4	907.1	902.6	899.7	889.2	875.8	853.5	828.2	795.4	751.4	696.3
110°	863.9	862.4	860.2	858.7	846.8	834.9	815.5	794.6	762.6	724.6	673.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	820.0	820.7	*817.0*	814.8	806.6	793.9	779.7	759.6	732.1	696.3	647.9
115°	779.0	777.5	*774.5*	773.0	764.1	754.4	740.3	725.4	700.8	666.5	622.6
117.5°	737.3	734.3	*733.6*	731.3	724.6	715.0	703.8	691.1	667.3	637.5	595.8
120°	694.1	694.1	*692.6*	691.1	682.2	674.0	667.3	653.9	633.8	605.5	569.7
122.5°	653.9	653.1	*650.2*	647.9	643.5	636.0	627.8	617.4	599.5	574.2	539.9
125°	609.9	611.4	*609.2*	608.5	601.0	597.3	589.8	583.1	564.5	541.4	510.9
127.5°	573.5	571.2	*571.2*	567.5	563.8	560.0	554.1	545.2	532.5	508.7	480.4
130°	534.7	533.2	*531.0*	531.0	526.5	521.3	517.6	510.1	496.0	476.6	449.8
132.5°	496.0	494.5	*493.0*	490.8	487.8	487.1	483.3	475.1	461.7	444.6	421.5
135°	459.5	458.8	*458.0*	458.0	453.5	451.3	446.8	440.1	431.2	415.6	393.2
137.5°	425.2	423.0	*421.5*	421.5	420.0	416.3	412.6	407.4	397.7	385.0	364.9
140°	389.5	391.0	*391.0*	390.2	387.3	385.0	380.6	376.1	366.4	356.0	338.9
142.5°	359.7	359.0	*357.5*	356.7	355.2	352.3	350.0	344.8	338.9	327.7	312.8
145°	327.7	327.7	*326.9*	327.7	324.7	324.0	321.0	316.5	309.8	300.1	287.5
147.5°	299.4	299.4	*298.6*	299.4	297.2	294.9	292.7	289.7	283.7	276.3	265.1
150°	273.3	274.1	*272.6*	272.6	271.8	269.6	268.1	263.6	259.2	253.2	243.5
152.5°	249.5	250.2	*249.5*	248.7	248.0	246.5	244.3	241.3	236.8	231.6	223.4
155°	229.4	228.6	*228.6*	228.6	227.9	225.7	225.7	221.2	216.7	213.0	204.8
157.5°	210.0	210.0	*210.0*	210.0	208.5	207.8	206.3	202.6	200.3	195.1	189.2
160°	194.4	193.6	*193.6*	193.6	192.1	191.4	189.2	187.7	184.7	180.2	175.8
162.5°	178.7	179.5	*179.5*	179.5	178.0	177.2	175.8	174.3	172.0	167.6	164.6
165°	166.8	166.8	*166.8*	166.1	165.3	165.3	163.1	162.4	160.1	157.1	154.9
167.5°	157.1	157.1	*156.4*	157.1	155.7	154.2	153.4	151.9	150.4	148.9	146.7
170°	148.9	148.9	*148.9*	148.9	148.2	147.5	146.0	145.2	143.7	142.2	140.0
172.5°	142.2	142.2	*142.2*	142.2	141.5	140.8	139.3	138.5	137.8	136.3	134.8
175°	137.0	137.0	*137.0*	137.0	136.3	135.5	134.1	134.1	133.3	132.6	131.1
177.5°	133.3	133.3	*132.6*	132.6	131.8	131.1	131.1	130.3	130.3	129.6	128.8
180°	128.8	128.8	*128.8*	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
2.5°	81.9	78.9	73.7	69.3	64.0	60.3	56.6	55.9	55.9	57.3	57.3
5°	94.6	87.9	77.5	67.8	56.6	48.4	41.0	34.3	29.8	27.6	27.6
7.5°	118.4	113.2	97.6	84.2	70.8	58.1	46.2	35.7	28.3	23.1	22.3
10°	148.9	140.8	122.1	105.0	87.1	71.5	57.3	44.7	35.7	31.3	31.3
12.5°	181.7	170.5	148.2	127.4	106.5	86.4	70.0	57.3	48.4	43.9	42.5
15°	216.7	204.1	177.2	150.4	125.1	103.5	84.9	69.3	60.3	55.9	55.1
17.5°	249.5	235.3	204.8	172.8	143.7	117.7	95.3	78.9	67.8	62.6	61.8
20°	285.2	266.6	230.9	193.6	159.4	128.1	102.8	83.4	70.0	64.0	63.3
22.5°	321.7	300.1	257.7	214.5	173.5	137.8	108.0	85.6	70.8	64.0	63.3
25°	360.5	336.6	286.7	236.8	189.2	147.5	113.2	87.9	72.2	64.0	63.3
27.5°	401.4	374.6	317.3	260.7	204.8	157.1	118.4	90.9	73.0	64.8	63.3
30°	445.4	414.8	348.5	283.7	219.7	166.1	122.9	92.3	73.7	64.8	64.0
32.5°	489.3	452.1	382.8	306.1	235.3	174.3	127.4	94.6	74.5	65.5	64.8
35°	531.7	495.3	414.1	329.2	250.2	182.5	131.1	96.1	76.0	66.3	64.8
37.5°	574.9	535.5	443.9	350.8	263.6	189.2	134.1	97.6	76.7	67.0	65.5
40°	615.9	569.7	472.9	371.6	274.8	195.1	136.3	98.3	77.5	67.8	66.3
42.5°	654.6	605.5	500.5	389.5	286.0	199.6	138.5	99.8	78.2	68.5	67.8
45°	687.4	636.8	524.3	407.4	294.2	203.3	140.0	100.5	78.9	69.3	68.5
47.5°	719.4	665.1	546.6	421.5	302.4	207.0	140.8	101.3	79.7	70.8	70.0
50°	747.7	690.4	566.8	434.2	308.3	208.5	141.5	102.0	81.2	72.2	71.5
52.5°	771.6	712.0	582.4	444.6	312.8	210.0	141.5	102.0	81.9	73.7	73.0
55°	790.9	730.6	596.5	452.1	315.8	210.8	141.5	102.8	83.4	75.2	74.5
57.5°	807.3	744.7	607.7	458.8	318.8	210.8	141.5	103.5	84.9	76.7	76.0
60°	819.2	756.7	615.9	463.2	319.5	210.0	141.5	104.3	86.4	78.9	78.2
62.5°	828.9	764.9	622.6	466.2	319.5	208.5	141.5	105.0	87.9	81.2	80.4
65°	835.6	770.8	627.1	467.7	318.8	207.8	141.5	106.5	90.1	83.4	82.7
67.5°	*839.3*	*775.3*	*630.1*	*469.2*	*318.0*	*207.8*	*142.2*	*108.7*	*92.3*	*86.4*	*85.6*
70°	840.8	776.0	630.8	468.4	317.3	206.3	143.0	110.2	95.3	89.4	88.6
72.5°	840.8	776.8	630.8	468.4	315.8	207.0	143.7	112.5	98.3	92.3	91.6
75°	838.6	774.5	630.1	467.0	315.0	206.3	146.0	115.4	101.3	96.1	95.3
77.5°	834.1	771.6	627.8	464.7	314.3	207.0	147.5	118.4	105.0	99.8	99.8
80°	828.9	767.1	624.8	462.5	313.5	208.5	149.7	122.1	108.7	104.3	103.5
82.5°	820.7	760.4	619.6	459.5	312.0	209.3	152.7	125.9	113.2	108.0	108.0
85°	809.5	750.7	612.9	455.8	310.6	210.8	155.7	128.8	117.7	112.5	112.5
87.5°	797.6	740.3	604.7	451.3	309.8	212.3	159.4	133.3	121.4	116.9	116.2
90°	783.5	727.6	596.5	446.1	309.1	214.5	162.4	137.8	126.6	122.1	121.4
92.5°	768.6	715.0	587.6	442.4	308.3	216.7	166.8	143.0	131.8	127.4	126.6
95°	753.7	701.5	578.7	437.2	308.3	219.7	171.3	148.2	137.0	132.6	131.8
97.5°	736.6	686.7	568.2	432.7	308.3	223.4	176.5	153.4	142.2	137.8	137.8
100°	718.7	671.8	557.8	428.2	309.1	227.1	181.7	159.4	148.2	143.7	143.7
102.5°	700.8	655.4	548.1	424.5	310.6	232.4	188.4	166.1	154.9	150.4	149.7
105°	681.4	639.0	537.0	419.3	312.0	236.8	194.4	172.0	160.9	156.4	156.4
107.5°	662.1	621.9	525.8	415.6	313.5	241.3	201.1	178.7	167.6	162.4	162.4
110°	640.5	603.2	513.9	411.1	315.0	246.5	206.3	184.7	172.8	168.3	167.6

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

Scaled Data Report

REPORT NUMBER: P1045898
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	618.1	584.6	501.2	405.1	315.8	251.0	212.3	190.7	178.7	173.5	172.8
115°	594.3	563.8	487.1	399.2	315.8	254.7	216.7	195.1	183.2	178.0	177.2
117.5°	570.5	541.4	471.4	391.0	315.0	256.9	220.4	198.1	186.2	181.0	180.2
120°	545.2	519.1	455.8	382.8	312.0	257.7	221.9	200.3	187.7	182.5	181.7
122.5°	519.1	495.3	437.2	371.6	307.6	256.9	221.9	200.3	187.7	181.7	181.0
125°	490.8	469.9	417.8	358.2	300.9	254.0	220.4	198.8	186.2	180.2	178.7
127.5°	463.2	444.6	397.7	344.8	292.7	249.5	217.5	195.9	183.2	177.2	176.5
130°	436.4	417.8	376.8	329.9	283.0	243.5	212.3	191.4	179.5	172.8	172.0
132.5°	408.1	391.0	356.0	314.3	271.8	236.1	207.0	186.9	174.3	169.1	167.6
135°	379.8	366.4	334.4	297.9	260.7	227.9	201.1	181.7	169.8	163.8	163.8
137.5°	354.5	341.1	312.8	281.5	248.7	218.2	193.6	175.8	164.6	159.4	158.6
140°	328.4	318.0	292.7	265.1	236.1	209.3	187.7	170.5	160.1	154.9	154.2
142.5°	303.9	293.4	273.3	248.0	223.4	199.6	180.2	164.6	154.9	150.4	149.7
145°	279.3	271.8	252.5	232.4	210.8	189.9	172.0	158.6	150.4	146.0	146.0
147.5°	257.7	251.0	233.8	216.7	198.1	181.0	165.3	153.4	146.0	142.2	141.5
150°	236.8	230.9	216.7	202.6	185.4	171.3	157.9	148.2	141.5	138.5	137.8
152.5°	217.5	213.0	201.1	189.2	175.0	162.4	151.9	143.7	137.8	134.8	134.8
155°	201.1	197.4	186.9	176.5	165.3	154.9	146.0	139.3	134.8	132.6	131.8
157.5°	186.9	182.5	174.3	166.1	157.1	148.2	141.5	135.5	132.6	130.3	130.3
160°	173.5	169.8	163.1	157.1	149.7	143.0	137.0	133.3	130.3	128.8	128.8
162.5°	162.4	159.4	154.2	148.9	143.7	138.5	134.1	131.1	128.8	127.4	127.4
165°	152.7	151.2	146.7	143.0	138.5	134.8	131.8	129.6	128.1	127.4	127.4
167.5°	145.2	143.7	140.8	137.8	134.8	131.8	129.6	128.1	127.4	126.6	126.6
170°	139.3	137.8	136.3	134.1	131.8	129.6	128.1	127.4	126.6	126.6	126.6
172.5°	134.8	133.3	132.6	131.1	129.6	128.1	127.4	126.6	126.6	126.6	126.6
175°	131.1	130.3	129.6	128.8	128.1	127.4	126.6	126.6	126.6	126.6	126.6
177.5°	128.8	128.1	128.1	127.4	127.4	126.6	126.6	127.4	127.4	127.4	128.1
180°	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8

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

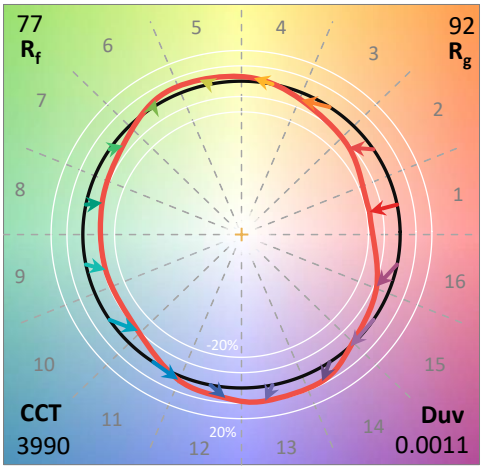
Test Information

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

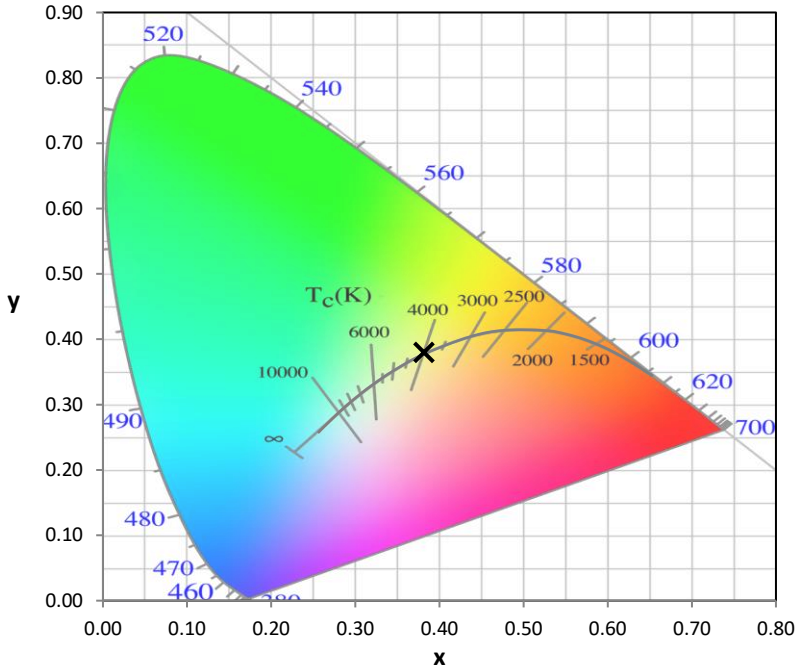
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

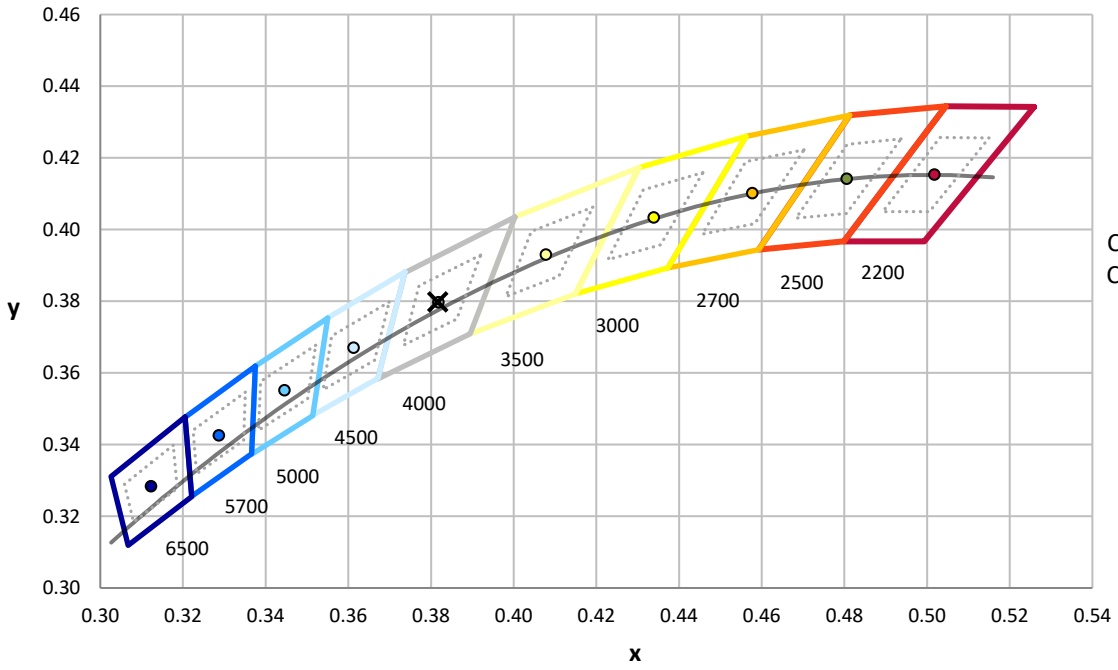
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

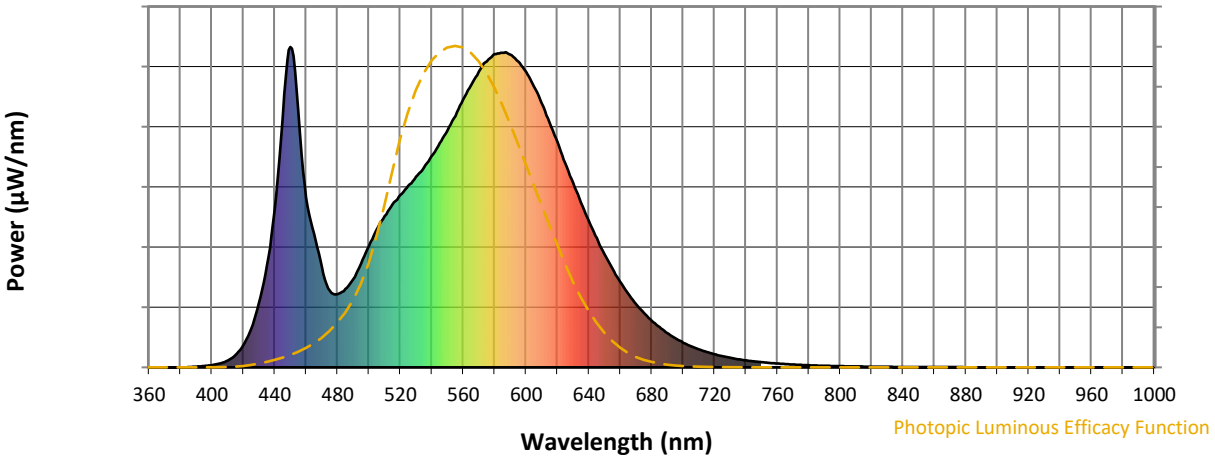


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

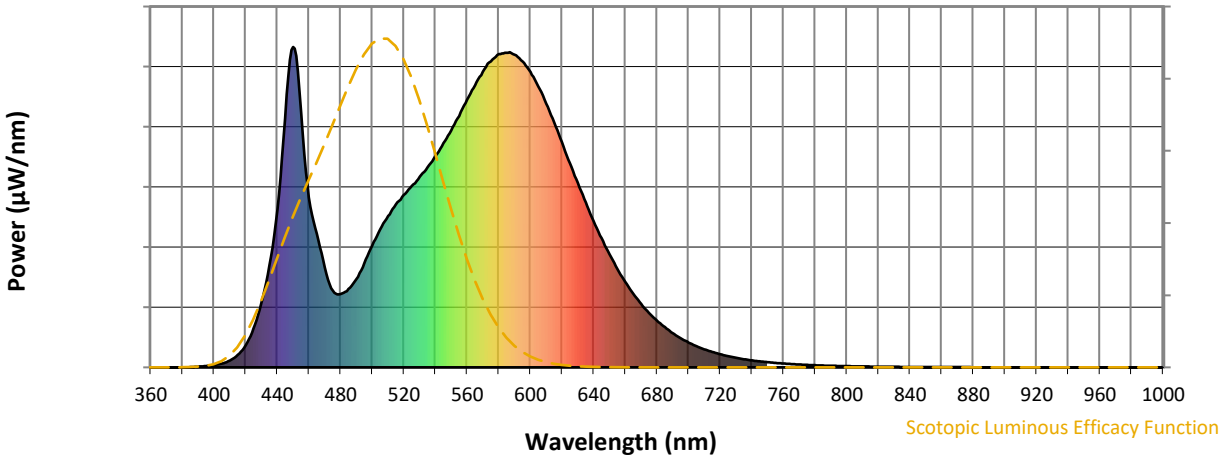


Photopic Lumens: NR

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

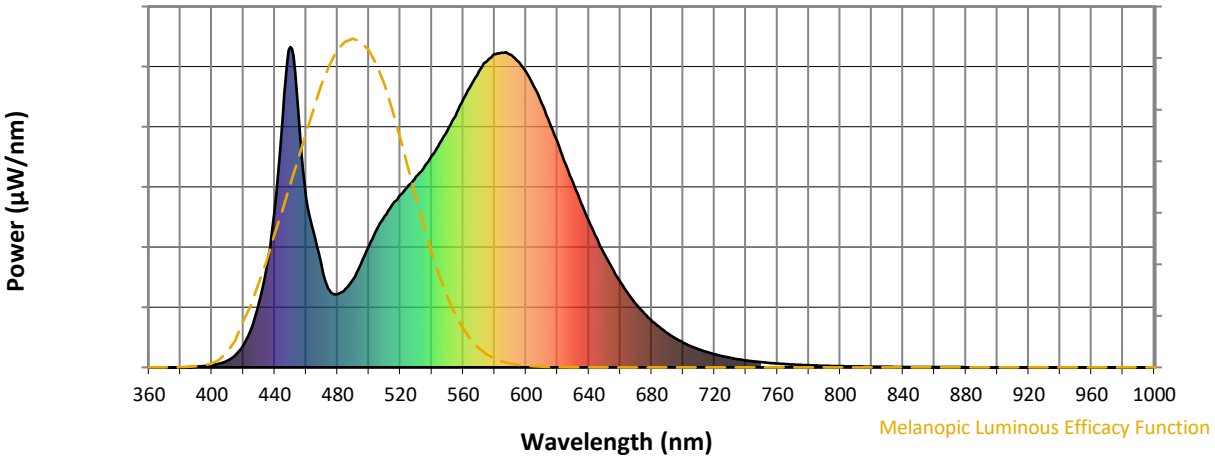


Scotopic Lumens: NR **S/P: 1.59**

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			

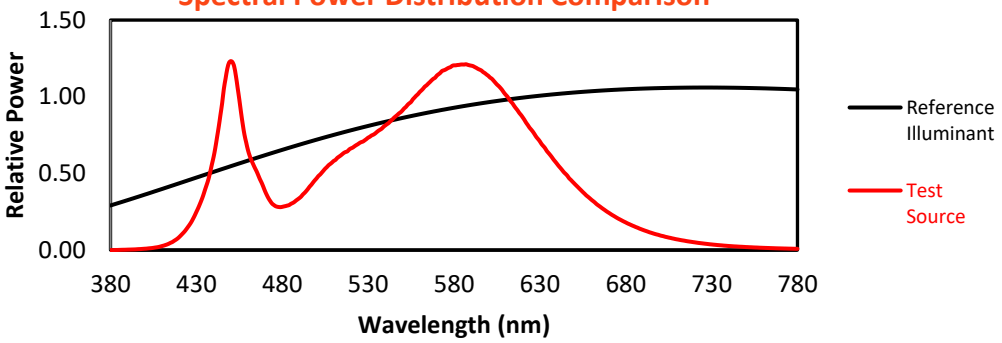
REPORT NUMBER: SP1-2501-332-1

TM-30-18

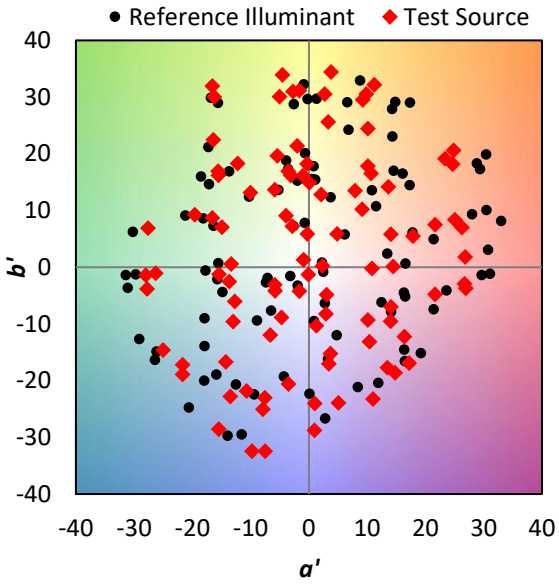
Summary

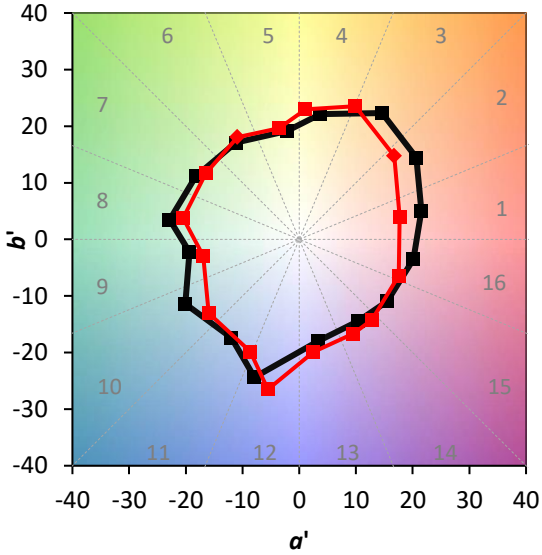
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

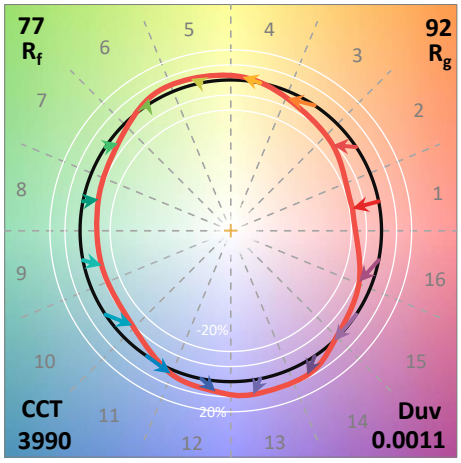
Spectral Power Distribution Comparison

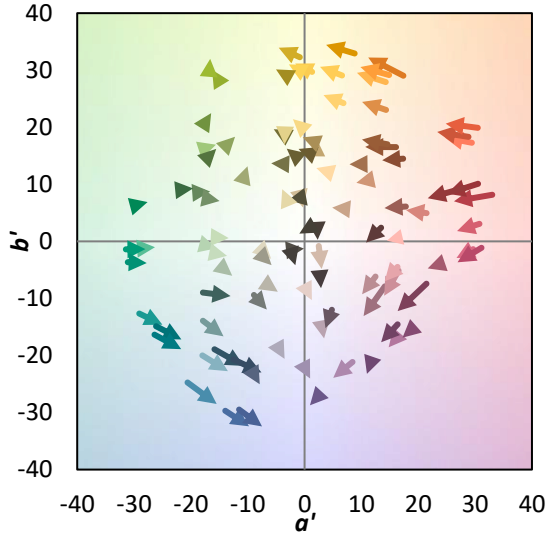


Color Vector Graphics







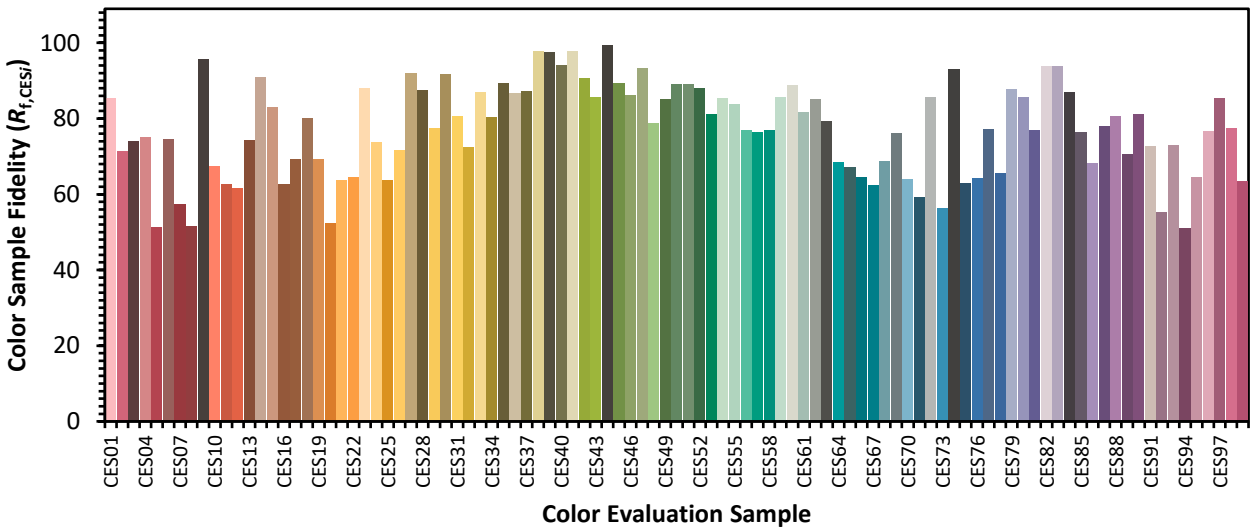


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

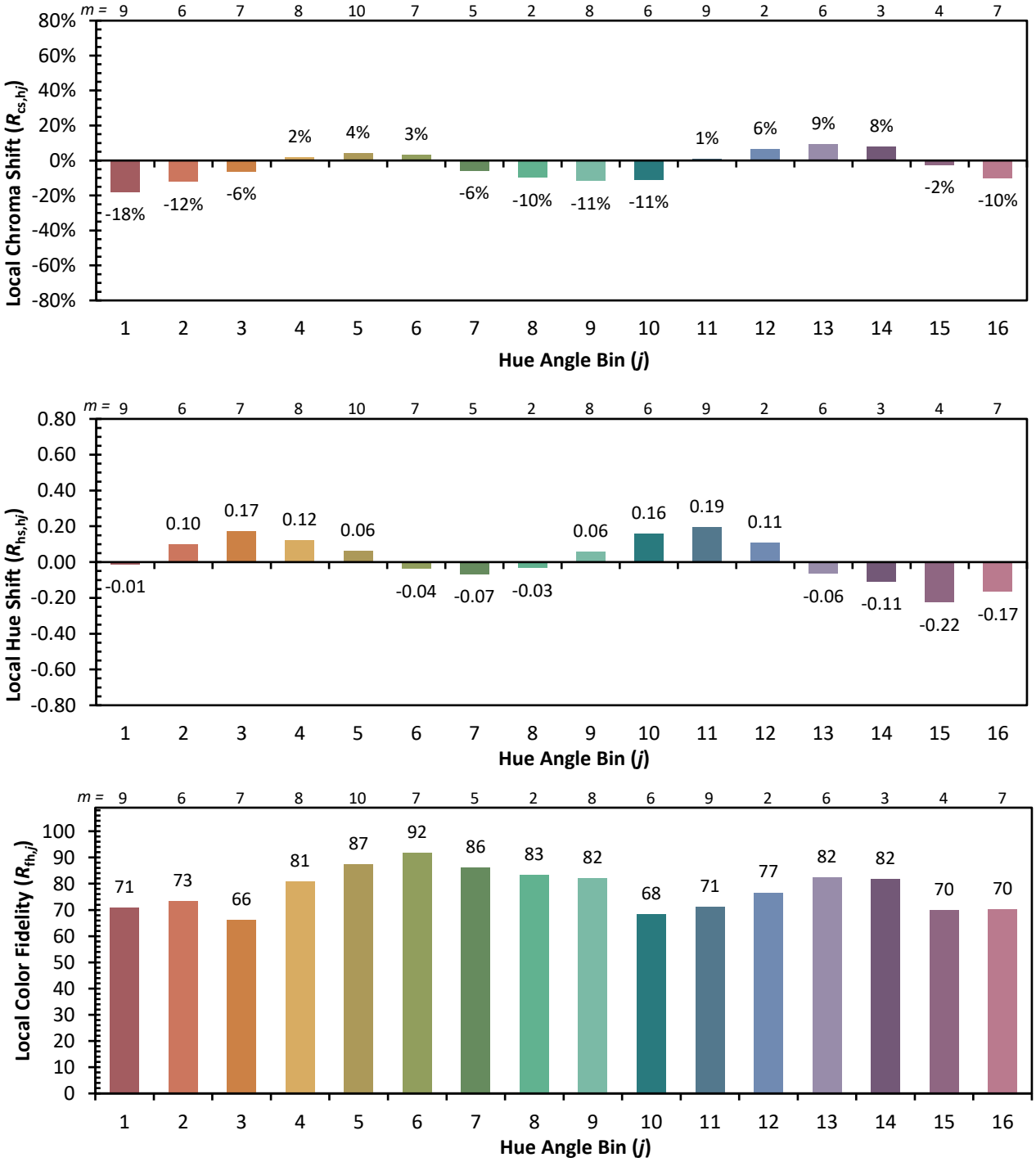
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 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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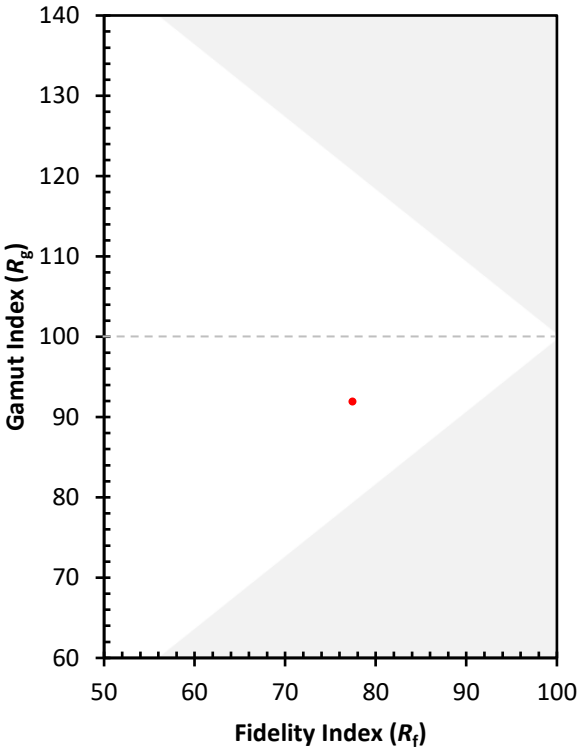
Color Rendition by Hue-Angle Bin

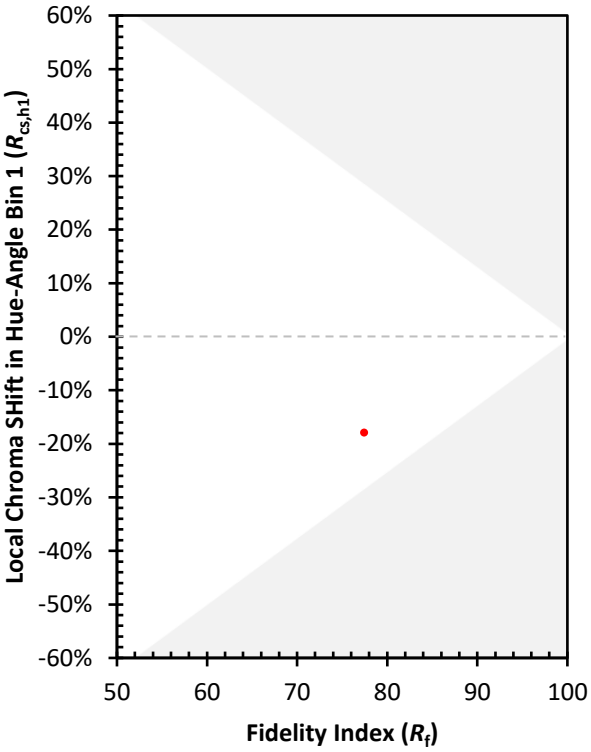


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Measure Comparisons





(END OF REPORT)