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: P1223881

Luminaire Tested: **FFX-CLB-70-722-U-VM9-T4**

Issue Date: 01/27/2026

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:	P1223881
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8944.2 lumens
Efficiency:	N/A
Efficacy:	125.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G4

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

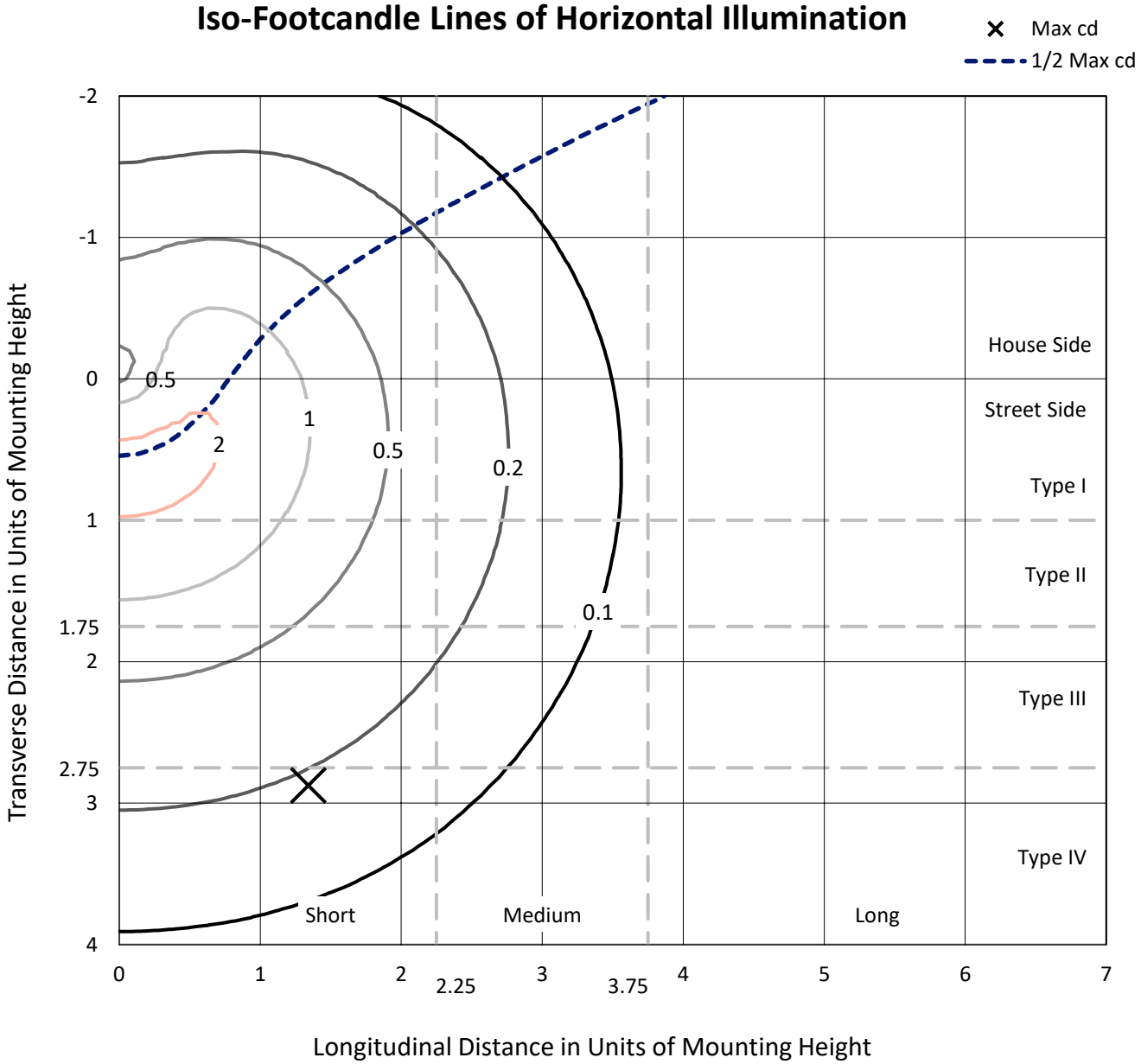


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Iso-Footcandle Lines of Horizontal Illumination



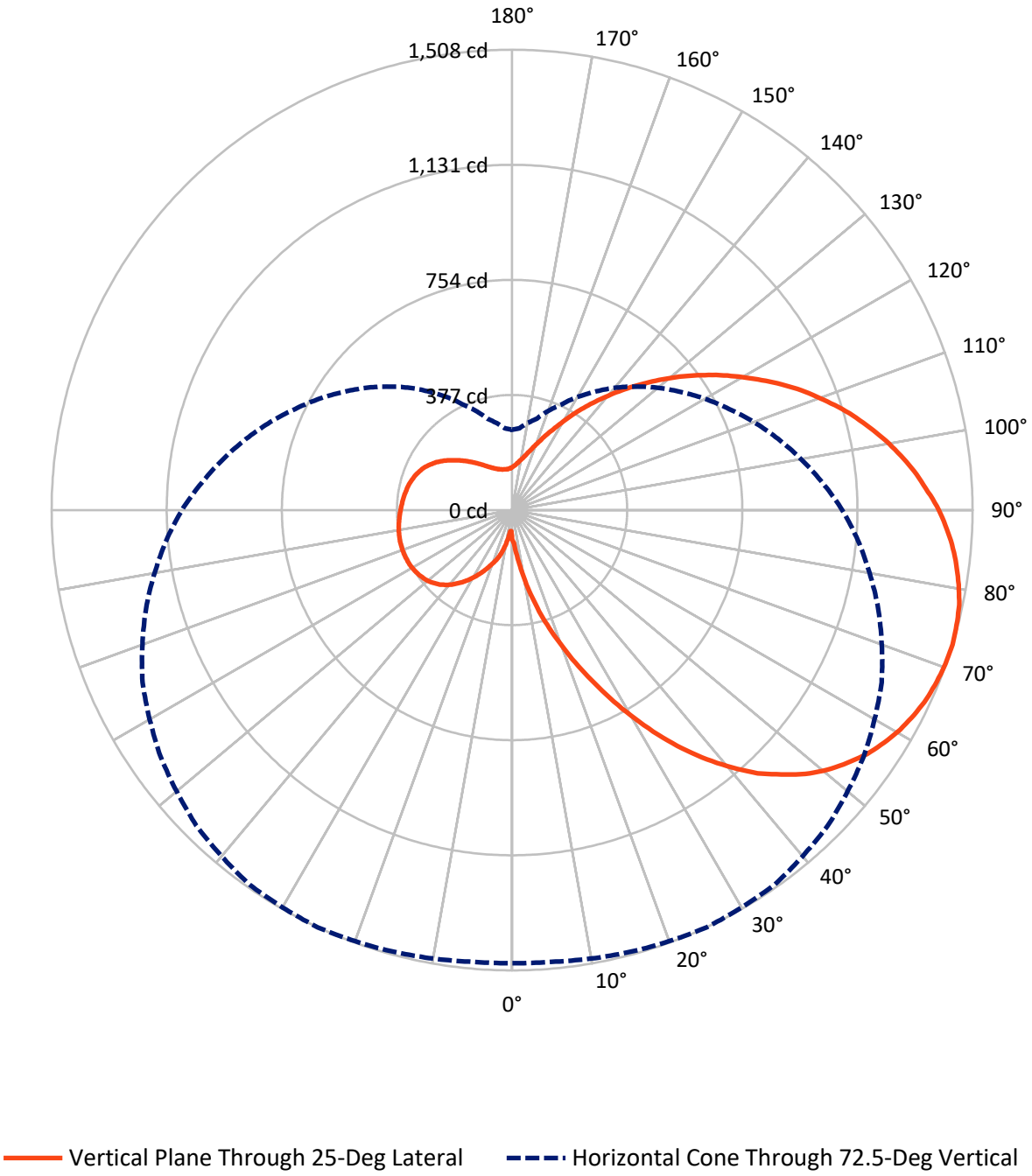
Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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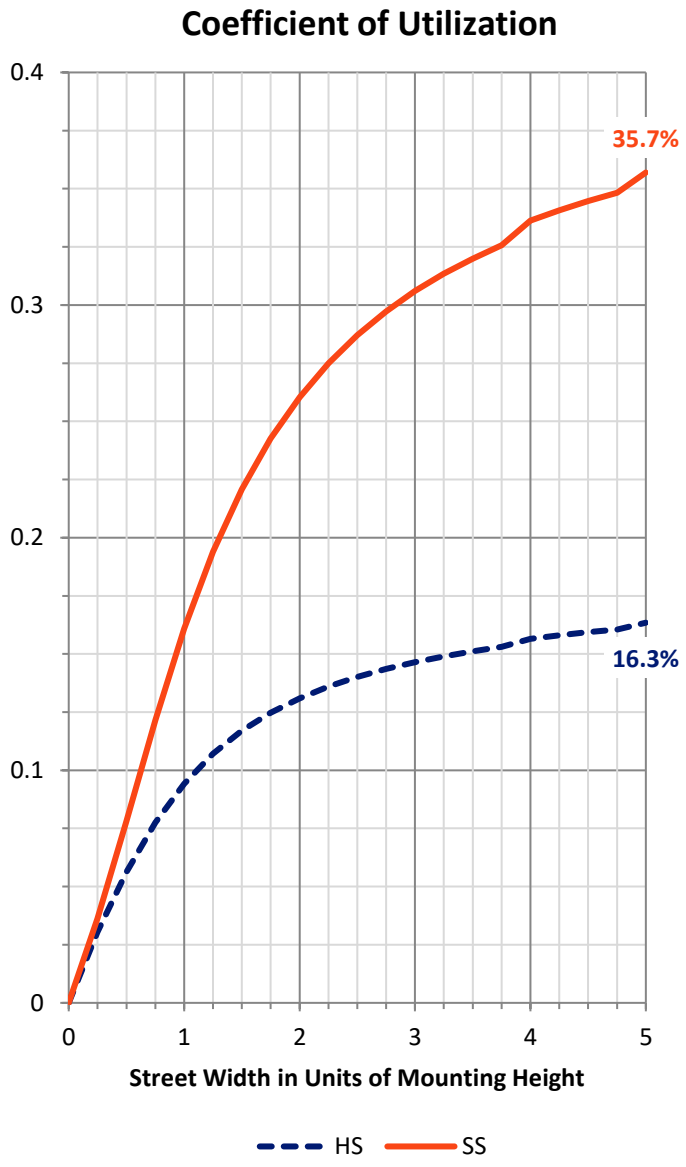
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1611.5	1233.2	2844.7
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	3644.7	2454.8	6099.5
	% Fixture	40.7	27.4	68.2
Total	Lumens	5256.2	3688.0	8944.2
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	0.1
10°-20°	75.9	0.8
20°-30°	206.9	2.3
30°-40°	409.9	4.6
40°-50°	639.9	7.2
50°-60°	838.7	9.4
60°-70°	978.8	10.9
70°-80°	1050.2	11.7
80°-90°	1043.3	11.7
90°-100°	967.9	10.8
100°-110°	842.8	9.4
110°-120°	681.9	7.6
120°-130°	502.0	5.6
130°-140°	332.0	3.7
140°-150°	196.4	2.2
150°-160°	103.3	1.2
160°-170°	47.8	0.5
170°-180°	13.8	0.2
0°-90°	5256.2	58.8
0°-180°	8944.2	100.0



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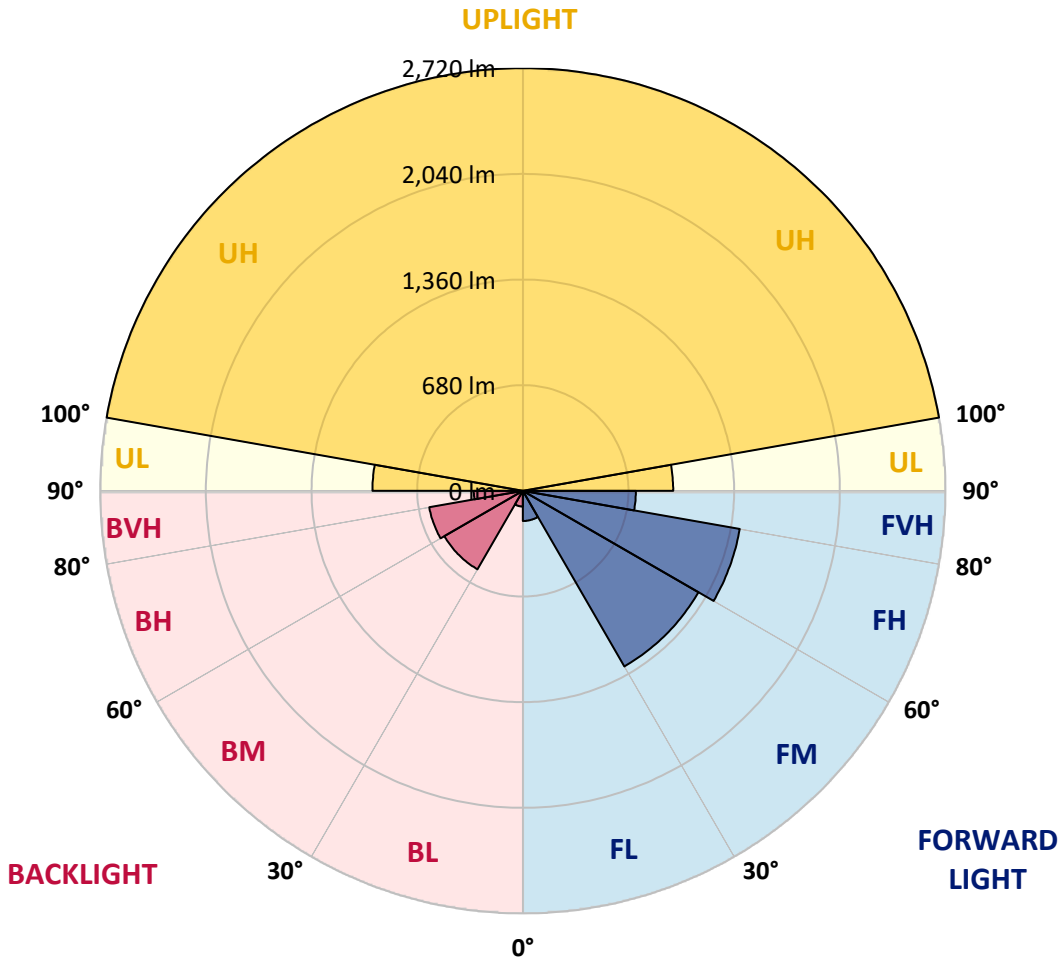
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	194.2	2.2			
FM	(30°-60°)	1305.4	14.6			
FH	(60°-80°)	1417.7	15.9			G1/1800
FVH	(80°-90°)	727.3	8.1			G4/750
BL	(0°-30°)	101.2	1.1	B0/110		
BM	(30°-60°)	583.2	6.5	B1/1000		
BH	(60°-80°)	611.2	6.8	B2/1000		G2/1000
BVH	(80°-90°)	315.9	3.5			G3/500
UL	(90°-100°)	967.9	10.8		U4/1000	
UH	(100°-180°)	2720.1	30.4		U5	

BUG Rating: B2-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	97.2	97.2	97.2	*97.2*	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2.5°	104.4	104.4	106.2	*106.8*	107.4	107.4	108.0	107.4	105.0	102.0	100.2
5°	142.4	141.2	140.6	*141.2*	141.2	138.8	135.2	128.5	123.7	115.9	112.8
7.5°	190.7	189.5	187.7	*185.9*	185.9	179.8	173.8	168.4	159.9	149.1	145.4
10°	246.8	244.4	242.0	*238.4*	234.1	228.7	220.9	211.8	200.4	188.9	181.6
12.5°	301.7	301.1	299.9	*294.5*	286.6	281.8	273.4	260.7	246.2	230.5	224.5
15°	365.1	362.1	360.3	*356.0*	351.2	341.6	327.7	315.6	298.7	277.0	269.8
17.5°	423.6	422.4	418.8	*417.6*	409.8	399.5	383.8	365.7	345.2	325.3	314.4
20°	487.6	490.6	486.4	*482.8*	468.9	458.6	444.2	426.7	401.9	373.5	362.1
22.5°	558.8	561.8	555.2	*555.2*	543.7	526.8	506.3	485.8	455.0	425.4	411.0
25°	641.5	642.7	632.4	*628.2*	619.8	602.9	578.1	554.0	518.4	481.0	464.1
27.5°	719.9	722.4	716.3	*710.9*	697.0	680.7	653.6	625.2	584.8	540.1	521.4
30°	808.7	803.8	801.4	*791.8*	777.3	760.4	730.2	698.8	652.4	599.9	576.9
32.5°	887.1	883.5	885.3	*877.4*	856.3	837.6	809.3	771.2	716.9	662.0	636.1
35°	968.0	969.8	967.4	*958.9*	946.2	921.5	882.9	840.0	785.7	721.1	693.4
37.5°	1050.6	1046.4	1043.4	*1036.2*	1023.5	995.7	957.7	909.4	846.7	778.5	747.7
40°	1121.9	1124.9	1121.3	*1109.2*	1097.7	1066.9	1025.3	970.4	905.8	832.8	797.2
42.5°	1189.4	1188.2	1185.2	*1178.6*	1162.9	1130.3	1089.3	1033.1	960.1	879.3	841.8
45°	1243.8	1245.0	1245.0	*1235.3*	1220.8	1191.3	1144.2	1086.9	1009.0	923.9	884.7
47.5°	1295.7	1297.5	1296.3	*1292.0*	1276.3	1241.3	1193.7	1134.5	1051.9	964.3	920.3
50°	1341.5	1341.5	1340.9	*1337.3*	1322.2	1288.4	1239.5	1176.2	1090.5	998.1	954.7
52.5°	1379.5	1378.9	1379.5	*1375.3*	1359.6	1328.8	1278.2	1210.6	1124.9	1026.5	984.3
55°	1409.7	1407.9	1412.1	*1410.3*	1396.4	1362.0	1308.3	1242.5	1153.8	1053.7	1009.0
57.5°	1433.9	1433.2	1438.7	*1436.9*	1423.0	1388.6	1335.5	1268.5	1178.0	1076.0	1027.1
60°	1453.8	1452.6	1459.8	*1459.8*	1445.9	1411.5	1359.0	1288.4	1197.3	1093.5	1044.0
62.5°	1467.6	1468.2	1474.9	*1477.3*	1465.2	1430.2	1375.3	1305.9	1213.0	1107.4	1057.3
65°	1477.3	1478.5	1486.4	*1491.2*	1479.1	1444.7	1388.0	1318.6	1225.7	1118.8	1067.5
67.5°	1483.3	1483.9	1494.8	*1499.6*	1490.0	1453.8	1398.8	1327.6	1234.1	1126.1	1075.4
70°	1485.7	1486.4	1498.4	*1505.7*	1496.0	1459.2	1403.7	1332.5	1239.5	1130.9	1079.6
72.5°	*1483.9*	*1485.1*	*1497.8*	*1507.5*	*1497.8*	*1461.6*	*1405.5*	*1334.9*	*1240.7*	*1136.3*	*1080.8*
75°	1477.9	1479.1	1493.6	*1503.2*	1496.0	1458.6	1402.5	1332.5	1238.9	1131.5	1079.0
77.5°	1467.6	1469.5	1484.5	*1496.6*	1488.2	1452.6	1396.4	1325.8	1232.3	1125.5	1072.4
80°	1452.6	1453.2	1470.1	*1482.1*	1476.1	1440.5	1384.4	1314.4	1221.4	1115.2	1063.3
82.5°	1433.2	1435.7	1452.0	*1465.2*	1459.8	1423.0	1368.7	1299.9	1207.5	1102.5	1050.0
85°	1412.7	1415.1	1430.2	*1444.7*	1438.1	1403.7	1349.4	1281.2	1188.8	1085.0	1035.0
87.5°	1388.0	1389.8	1404.3	*1419.4*	1413.3	1378.9	1326.4	1259.4	1169.5	1068.7	1017.5
90°	1360.8	1362.6	1376.5	*1391.0*	1383.2	1350.6	1299.3	1233.5	1146.0	1047.0	997.5
92.5°	1331.9	1332.5	1348.2	*1356.0*	1351.8	1322.8	1272.1	1208.8	1121.3	1024.7	978.2
95°	1299.3	1299.3	1314.4	*1322.8*	1315.6	1288.4	1240.7	1177.4	1092.3	1001.8	954.1
97.5°	1263.7	1264.9	1276.3	*1284.8*	1282.4	1254.0	1208.8	1148.4	1066.9	977.0	931.8
100°	1226.9	1226.9	1237.1	*1244.4*	1238.9	1216.0	1173.2	1117.6	1035.0	950.5	906.4
102.5°	1188.2	1187.6	1196.1	*1201.5*	1197.9	1176.8	1136.9	1082.0	1004.8	922.7	881.1
105°	1145.4	1143.6	1152.0	*1158.1*	1154.4	1135.7	1101.9	1048.8	974.0	895.6	855.7
107.5°	1099.5	1102.5	1107.4	*1111.0*	1108.0	1091.7	1059.7	1012.6	942.0	867.2	828.6
110°	1056.1	1057.9	1058.5	*1062.7*	1062.1	1048.8	1021.7	974.6	907.6	837.0	799.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1012.0	1011.4	1012.0	*1015.0*	1015.0	1001.8	975.8	934.8	873.8	805.0	770.6
115°	964.3	961.9	962.5	*963.1*	965.6	955.3	933.0	894.3	834.6	773.7	739.9
117.5°	914.9	914.3	913.1	*911.2*	911.2	907.0	887.7	853.3	796.6	736.2	707.9
120°	867.8	865.4	862.4	*860.6*	861.8	856.9	841.2	806.8	756.8	702.4	674.1
122.5°	813.5	815.3	813.5	*811.1*	811.7	806.8	793.6	764.6	714.5	662.6	637.3
125°	767.0	766.4	764.0	*760.4*	760.4	758.6	744.1	718.7	674.1	624.6	601.1
127.5°	715.1	715.7	713.3	*711.5*	712.7	709.1	699.4	670.5	631.2	587.2	564.2
130°	666.2	665.6	665.0	*661.4*	664.4	657.8	649.3	625.2	587.8	550.4	529.2
132.5°	620.4	616.7	614.3	*613.7*	613.1	612.5	602.3	581.1	549.8	512.3	491.8
135°	574.5	571.5	568.5	*567.3*	568.5	565.5	556.4	538.9	509.9	473.7	458.0
137.5°	527.4	526.2	526.2	*523.2*	523.2	520.8	513.0	498.5	471.3	439.9	424.2
140°	485.2	482.8	481.6	*479.8*	481.6	479.2	470.7	456.8	433.9	406.7	391.7
142.5°	441.7	439.3	441.1	*439.3*	437.5	436.3	429.1	418.2	398.3	373.5	360.9
145°	401.3	401.3	400.1	*400.7*	399.5	398.3	391.1	380.8	363.9	341.0	331.9
147.5°	363.3	364.5	363.3	*364.5*	364.5	359.7	354.8	346.4	330.7	312.6	302.9
150°	327.7	329.5	328.3	*327.7*	328.3	325.9	319.2	314.4	300.5	284.8	275.2
152.5°	297.5	298.7	298.7	*297.5*	296.9	295.7	289.1	282.4	271.6	259.5	252.9
155°	269.1	269.1	269.8	*270.4*	268.5	264.9	262.5	257.1	247.4	236.6	229.9
157.5°	245.6	245.0	245.6	*245.0*	244.4	240.8	237.2	232.9	225.1	215.4	211.8
160°	223.3	223.3	223.9	*223.3*	220.9	219.1	216.0	212.4	205.8	199.1	194.3
162.5°	205.2	205.2	205.2	*204.6*	202.2	201.6	197.9	194.3	188.9	183.5	179.8
165°	189.5	189.5	188.9	*188.9*	187.7	185.9	182.9	179.8	175.0	170.8	168.4
167.5°	176.8	176.2	175.6	*175.0*	174.4	172.6	169.6	167.8	164.1	160.5	158.7
170°	166.0	166.0	165.4	*165.4*	164.1	162.3	160.5	158.1	155.7	152.1	150.9
172.5°	156.3	156.3	156.3	*156.3*	154.5	153.9	152.1	150.3	148.5	146.0	144.8
175°	149.1	149.1	149.1	*149.1*	147.9	146.6	146.0	144.2	143.0	141.2	140.6
177.5°	143.6	143.6	143.6	*143.6*	143.0	141.8	141.2	140.0	138.8	138.2	137.6
180°	138.8	138.8	138.8	*138.8*	138.8	138.8	138.8	138.8	138.8	138.8	138.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2.5°	98.4	94.7	89.9	84.5	80.3	74.8	69.4	66.4	64.6	63.4
5°	109.8	102.0	94.7	86.9	80.9	75.4	69.4	64.6	62.2	61.6
7.5°	140.0	129.1	118.3	108.6	100.2	91.7	85.7	80.9	77.8	77.8
10°	176.2	161.1	148.5	135.8	124.3	114.1	105.6	100.8	97.2	96.0
12.5°	217.3	199.1	181.6	167.2	150.3	138.8	128.5	121.9	117.7	117.1
15°	260.1	241.4	219.1	199.1	180.4	162.3	150.3	140.6	137.0	137.0
17.5°	301.1	277.0	252.3	228.1	205.2	184.1	167.2	156.3	150.9	149.7
20°	345.2	316.2	284.2	255.9	227.5	202.8	182.9	169.0	161.7	161.1
22.5°	390.4	356.7	322.3	284.8	252.3	222.7	199.1	182.9	173.8	172.6
25°	442.3	401.3	360.3	319.2	280.0	245.0	217.3	197.3	187.1	185.9
27.5°	499.7	448.4	399.5	352.4	306.6	267.9	234.8	211.8	199.1	198.5
30°	552.2	495.5	439.9	385.6	335.5	289.1	252.3	225.7	211.8	210.0
32.5°	604.7	541.9	479.2	419.4	361.5	311.4	269.8	239.0	222.7	221.5
35°	659.0	587.8	519.6	450.8	390.4	333.7	286.0	252.3	234.8	232.3
37.5°	709.7	633.0	558.2	485.2	415.8	354.2	301.7	264.9	245.0	242.0
40°	756.2	673.5	593.2	514.8	439.9	373.5	316.8	275.8	253.5	251.0
42.5°	799.0	711.5	625.2	540.7	462.3	390.4	329.5	284.8	260.1	257.7
45°	839.4	747.1	654.8	564.9	481.6	406.1	341.6	293.3	266.7	263.1
47.5°	873.8	777.3	678.3	585.4	499.1	419.4	350.6	299.3	271.6	267.9
50°	904.6	802.6	700.6	605.3	514.2	431.5	359.1	304.2	274.0	270.4
52.5°	929.3	826.2	719.9	621.0	528.0	441.1	365.1	308.4	276.4	272.8
55°	953.5	845.5	736.8	634.9	538.3	450.2	369.9	310.8	277.6	273.4
57.5°	973.4	861.8	750.7	645.7	548.6	456.2	374.2	312.0	277.6	272.8
60°	987.9	874.4	761.6	654.8	555.2	461.7	377.2	312.6	277.0	272.2
62.5°	1000.6	884.7	769.4	662.6	561.8	465.9	380.2	313.2	275.8	271.0
65°	1010.2	893.1	776.1	667.4	566.1	469.5	380.8	312.6	274.0	269.1
67.5°	1018.1	898.6	780.3	671.7	569.1	471.3	382.0	312.0	272.8	267.3
70°	1021.1	901.0	782.7	673.5	570.9	472.5	382.0	310.8	270.4	264.9
72.5°	*1020.5*	*901.0*	*783.3*	*674.1*	*571.5*	*473.1*	*381.4*	*309.0*	*268.5*	*263.1*
75°	1018.7	899.2	782.1	673.5	570.9	472.5	380.8	307.8	266.7	261.9
77.5°	1013.8	894.3	777.9	671.1	569.7	470.7	379.0	306.6	265.5	259.5
80°	1005.4	887.1	771.8	665.6	565.5	468.9	377.2	304.2	263.1	258.3
82.5°	993.3	878.1	764.6	660.8	561.8	465.3	374.8	302.9	261.9	257.1
85°	979.4	866.6	754.9	653.6	556.4	461.7	371.7	300.5	260.7	255.9
87.5°	962.5	851.5	745.3	645.1	549.8	456.8	368.7	298.7	260.1	255.3
90°	945.0	837.6	733.2	637.3	544.3	452.0	365.7	297.5	259.5	255.3
92.5°	925.7	822.5	721.8	627.0	537.1	447.2	362.7	296.3	259.5	255.3
95°	906.4	806.8	710.3	618.0	529.8	442.3	359.7	295.7	260.7	256.5
97.5°	883.5	788.7	696.4	608.3	521.4	436.9	357.3	295.1	261.3	257.7
100°	861.8	770.6	681.9	597.4	513.6	430.9	353.6	294.5	262.5	258.3
102.5°	838.2	753.1	667.4	586.0	505.1	424.2	350.6	293.9	263.7	260.1
105°	814.7	732.0	651.8	572.7	494.8	417.6	347.0	293.3	264.3	260.7
107.5°	788.7	712.1	634.2	560.0	484.6	410.4	342.2	292.1	264.9	261.3
110°	762.2	688.6	616.1	545.5	472.5	401.3	337.3	289.1	264.3	261.3

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

Scaled Data Report

REPORT NUMBER: P1223881
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	736.8	666.2	596.2	529.2	459.8	392.3	330.7	286.0	262.5	260.1
115°	705.5	640.9	575.1	511.7	445.4	380.8	323.5	281.8	260.1	257.1
117.5°	676.5	614.3	552.8	493.0	430.3	369.3	315.0	276.4	255.9	253.5
120°	643.9	586.0	528.6	471.9	413.4	356.0	304.8	269.8	250.4	248.6
122.5°	611.9	558.2	503.9	450.2	395.3	341.0	294.5	261.3	244.4	242.6
125°	578.1	528.6	478.0	427.3	375.4	325.3	282.4	251.6	236.6	234.8
127.5°	543.7	497.9	450.2	403.1	356.0	309.6	269.8	242.0	227.5	226.9
130°	507.5	466.5	423.0	379.6	336.1	293.3	256.5	231.7	218.5	217.3
132.5°	474.9	436.9	396.5	355.4	314.4	277.0	243.8	220.9	209.4	208.2
135°	442.9	404.9	369.9	333.7	295.7	260.7	231.1	210.6	200.4	199.1
137.5°	410.4	377.2	344.6	310.8	276.4	245.0	219.1	201.0	191.9	190.7
140°	377.8	350.0	320.4	288.5	258.9	230.5	207.0	191.9	183.5	182.2
142.5°	348.2	321.7	295.1	267.3	240.8	216.6	196.1	181.6	174.4	173.8
145°	319.2	296.3	272.2	247.4	224.5	204.6	185.9	173.8	167.8	167.2
147.5°	293.3	272.8	251.0	229.9	210.0	191.3	176.2	166.0	159.9	159.3
150°	267.3	249.2	231.1	213.0	196.1	180.4	167.2	158.7	154.5	153.3
152.5°	244.4	229.9	213.6	198.5	183.5	170.2	159.9	152.1	148.5	147.9
155°	223.9	211.8	198.5	185.3	173.2	162.3	153.3	147.2	144.2	144.2
157.5°	206.4	196.1	185.3	174.4	164.7	155.7	148.5	143.6	141.2	140.6
160°	190.7	181.6	173.2	165.4	156.3	149.7	144.2	140.0	138.2	137.6
162.5°	176.2	170.2	163.5	156.9	150.3	144.8	140.6	137.6	136.4	136.4
165°	166.0	160.5	155.1	150.3	145.4	141.8	138.2	136.4	135.2	134.6
167.5°	156.9	152.7	149.1	145.4	141.8	138.8	136.4	135.2	134.0	134.0
170°	149.7	146.6	144.2	141.8	139.4	137.0	135.8	134.6	134.0	134.0
172.5°	143.6	141.8	140.0	138.8	137.0	135.8	134.6	134.0	134.0	134.0
175°	140.0	138.8	137.6	137.0	136.4	135.8	135.2	134.6	134.6	134.6
177.5°	137.6	137.0	137.0	136.4	136.4	136.4	136.4	136.4	136.4	136.4
180°	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

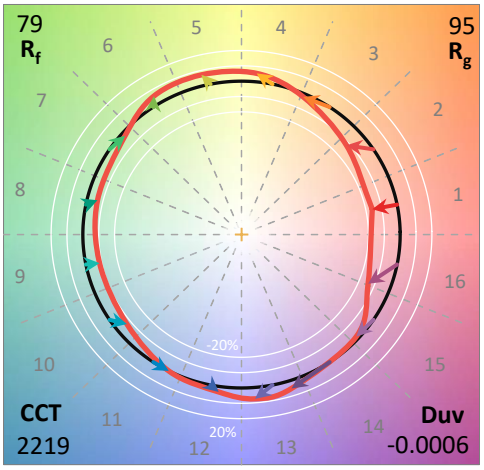
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

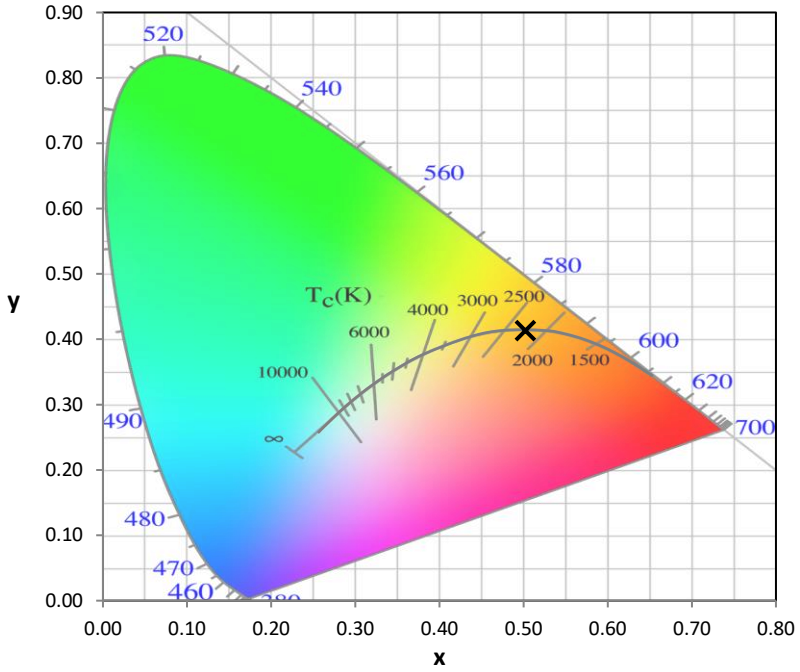
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

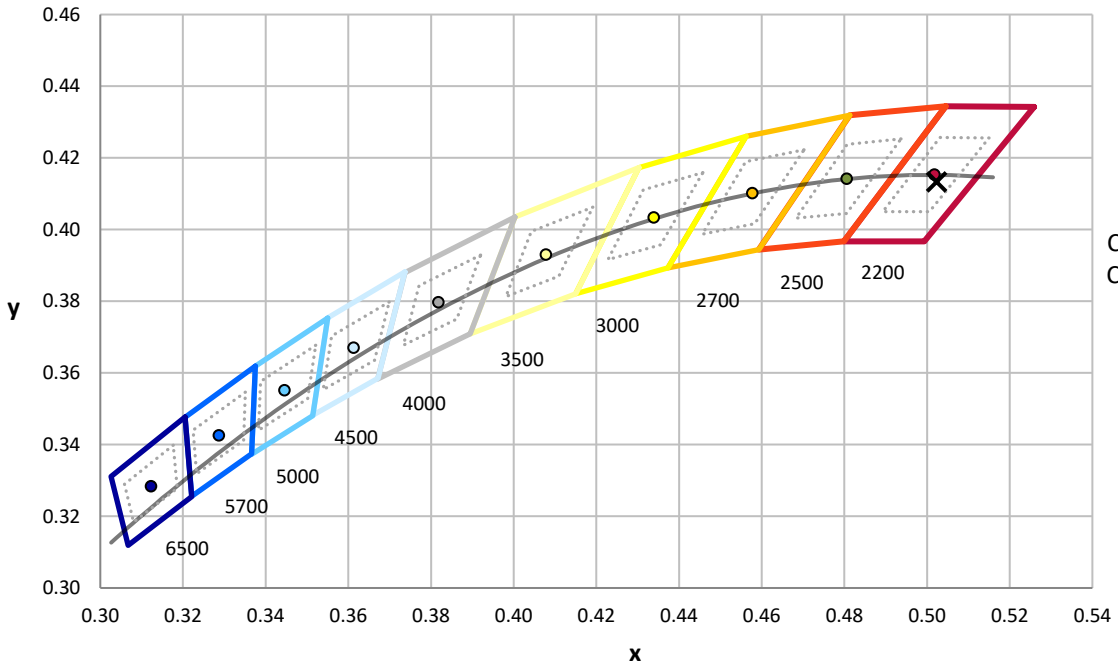
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

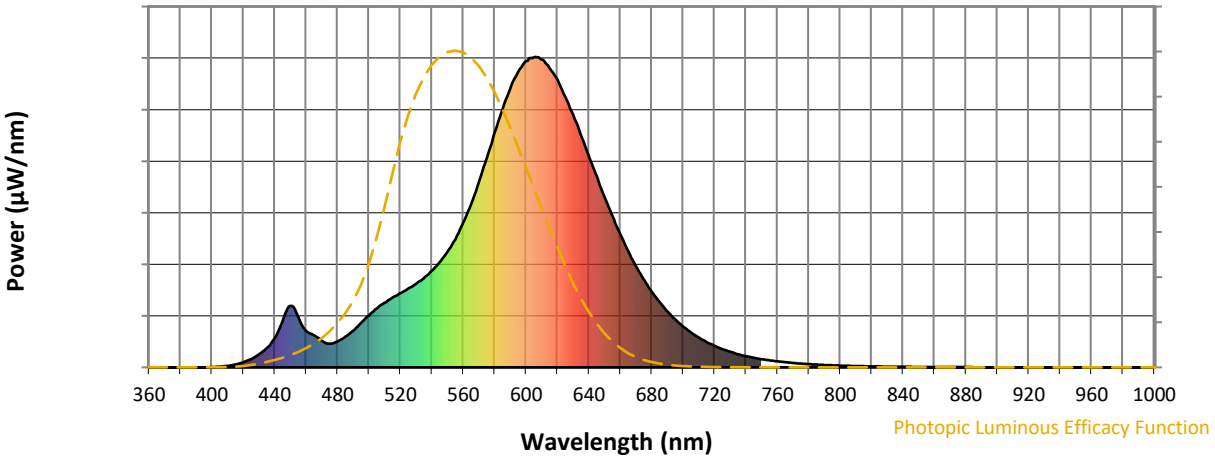


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

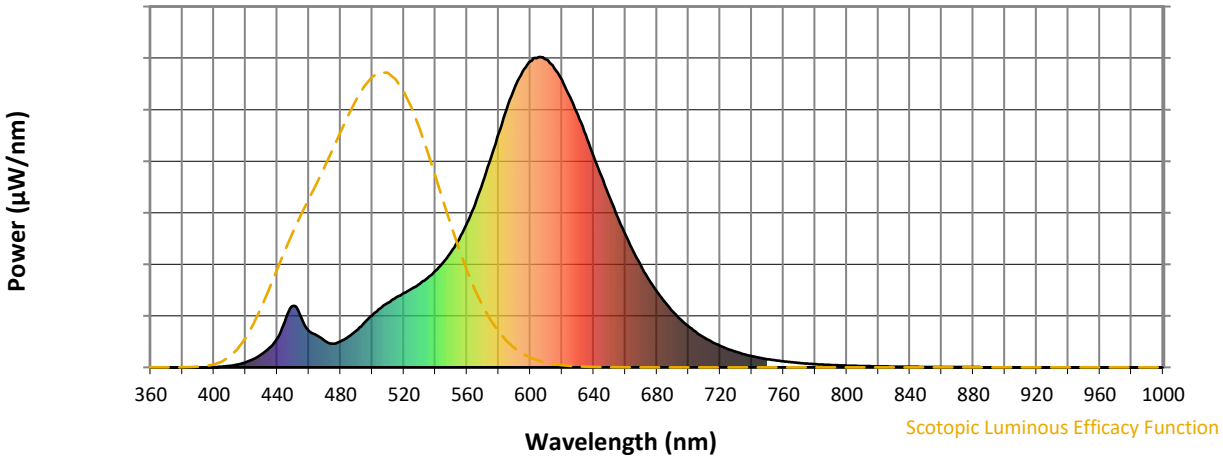


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

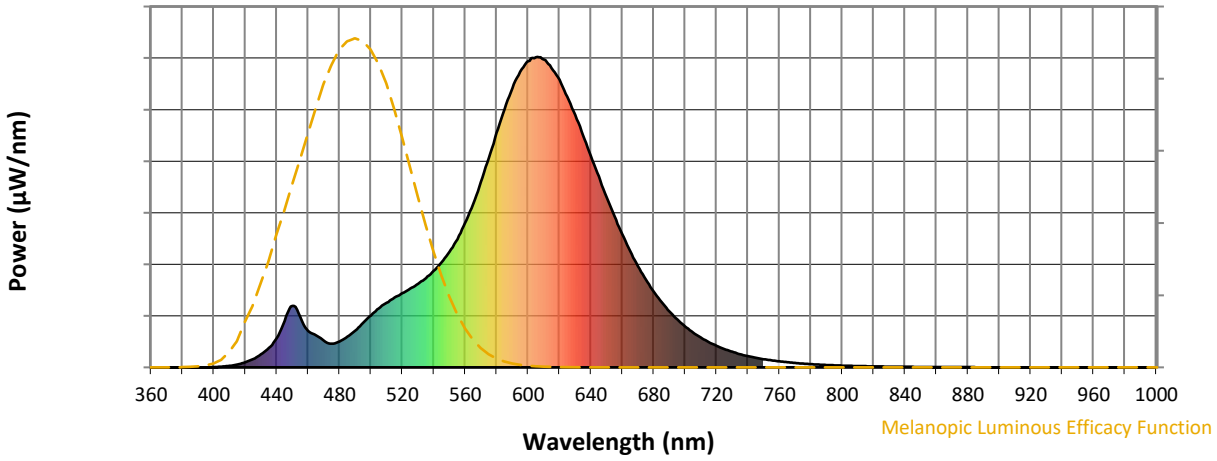


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

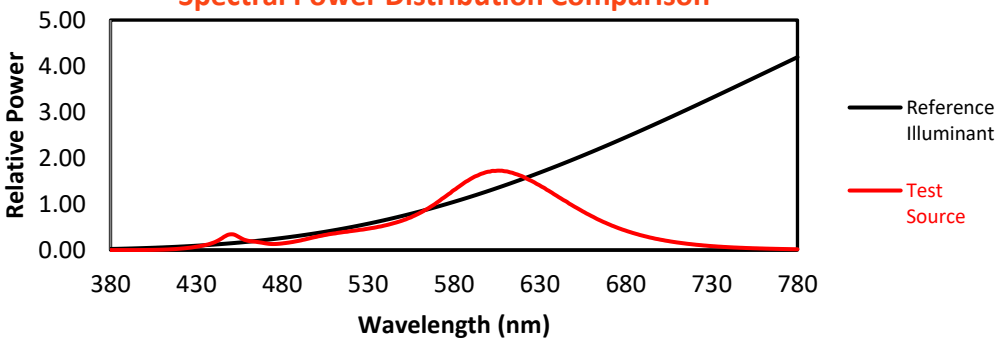
REPORT NUMBER: SP1-2501-332-2

TM-30-18

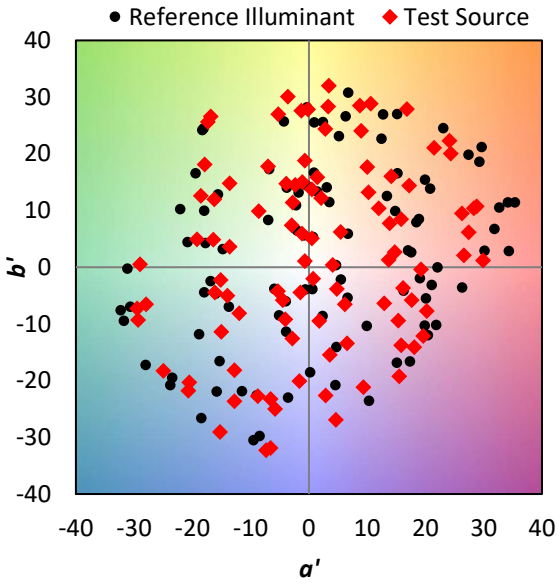
Summary

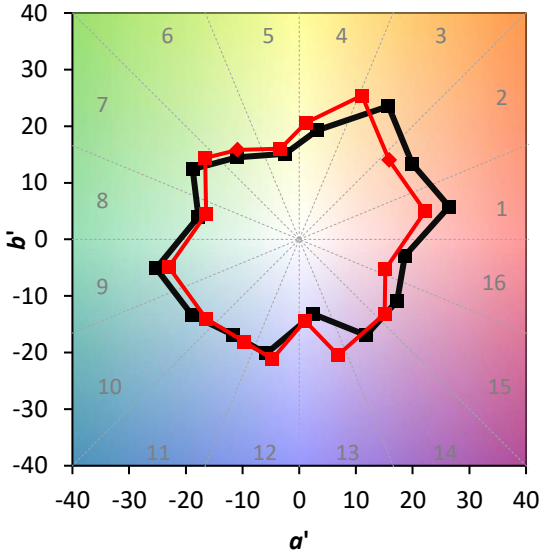
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

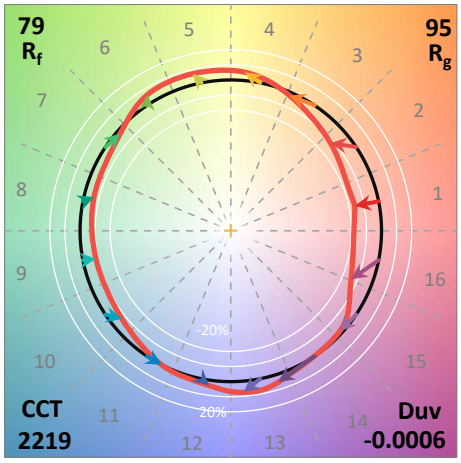
Spectral Power Distribution Comparison

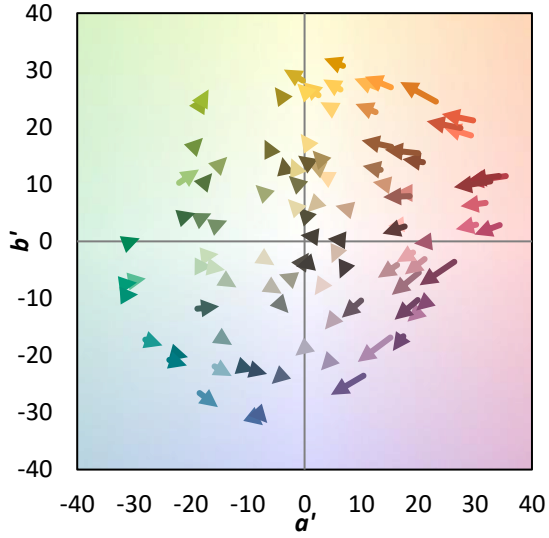


Color Vector Graphics







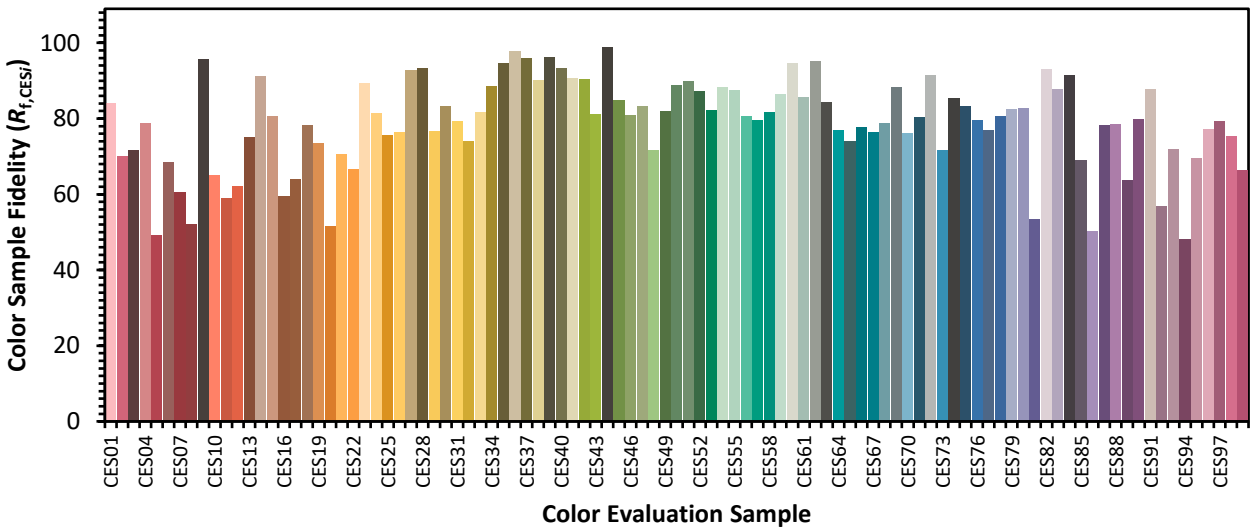


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

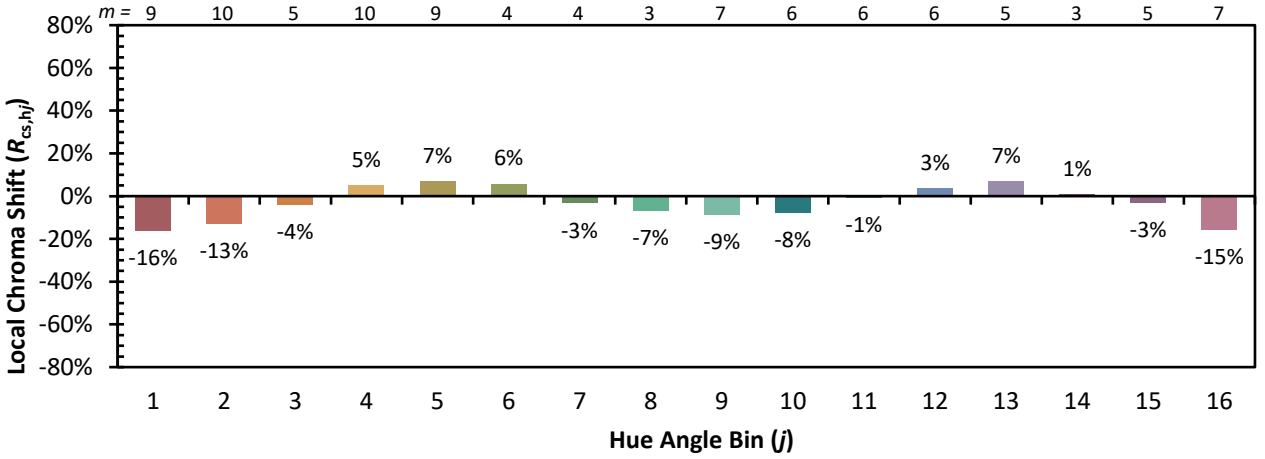
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

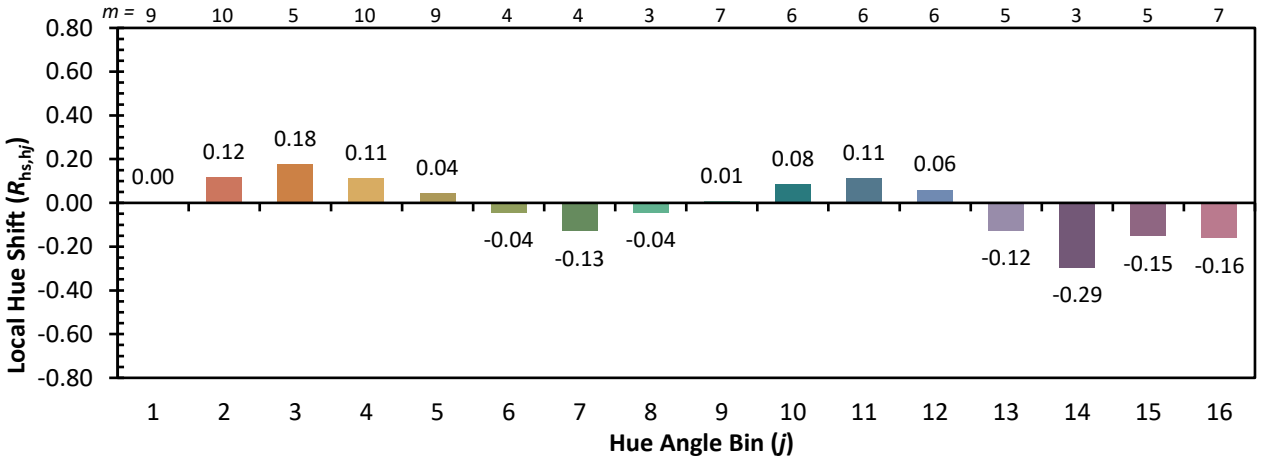


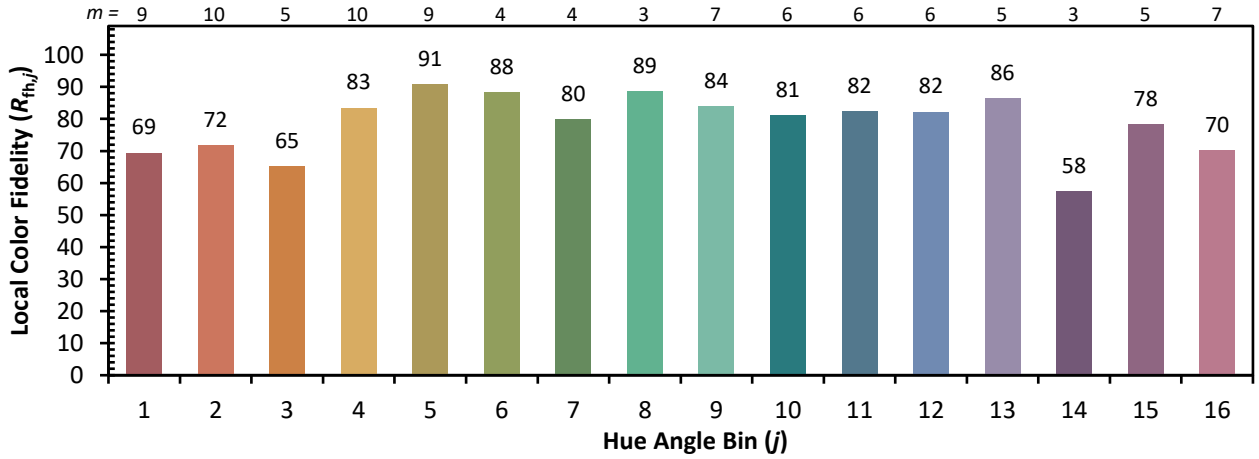
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Color Rendition by Hue-Angle Bin



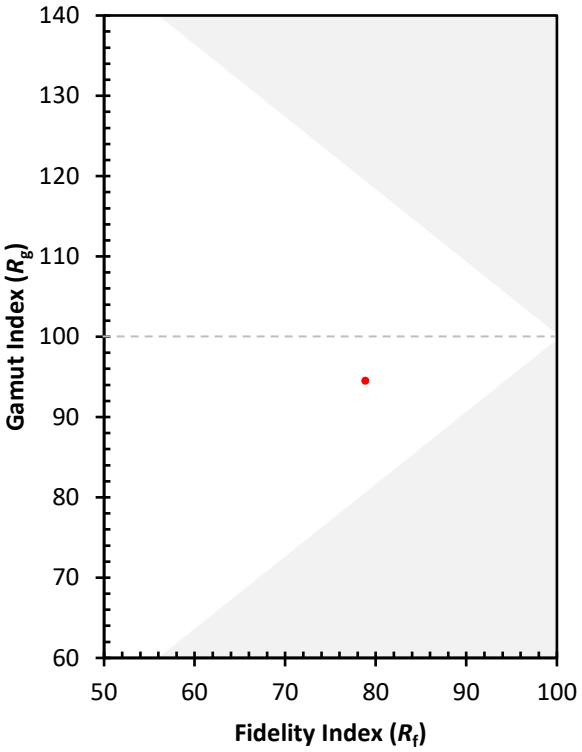


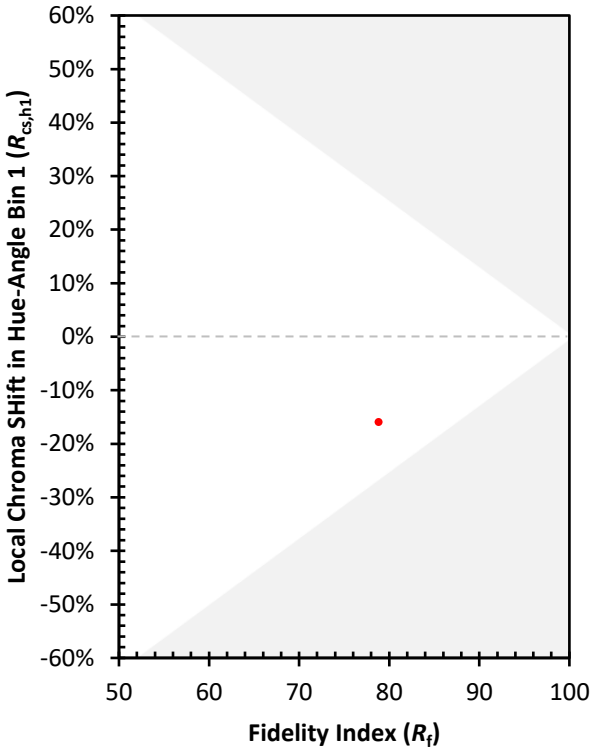


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Measure Comparisons





(END OF REPORT)