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: P1045869

Luminaire Tested: **FFX-CLB-80-722-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045869
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-722-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7201.4 lumens
Efficiency:	N/A
Efficacy:	88.0 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):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

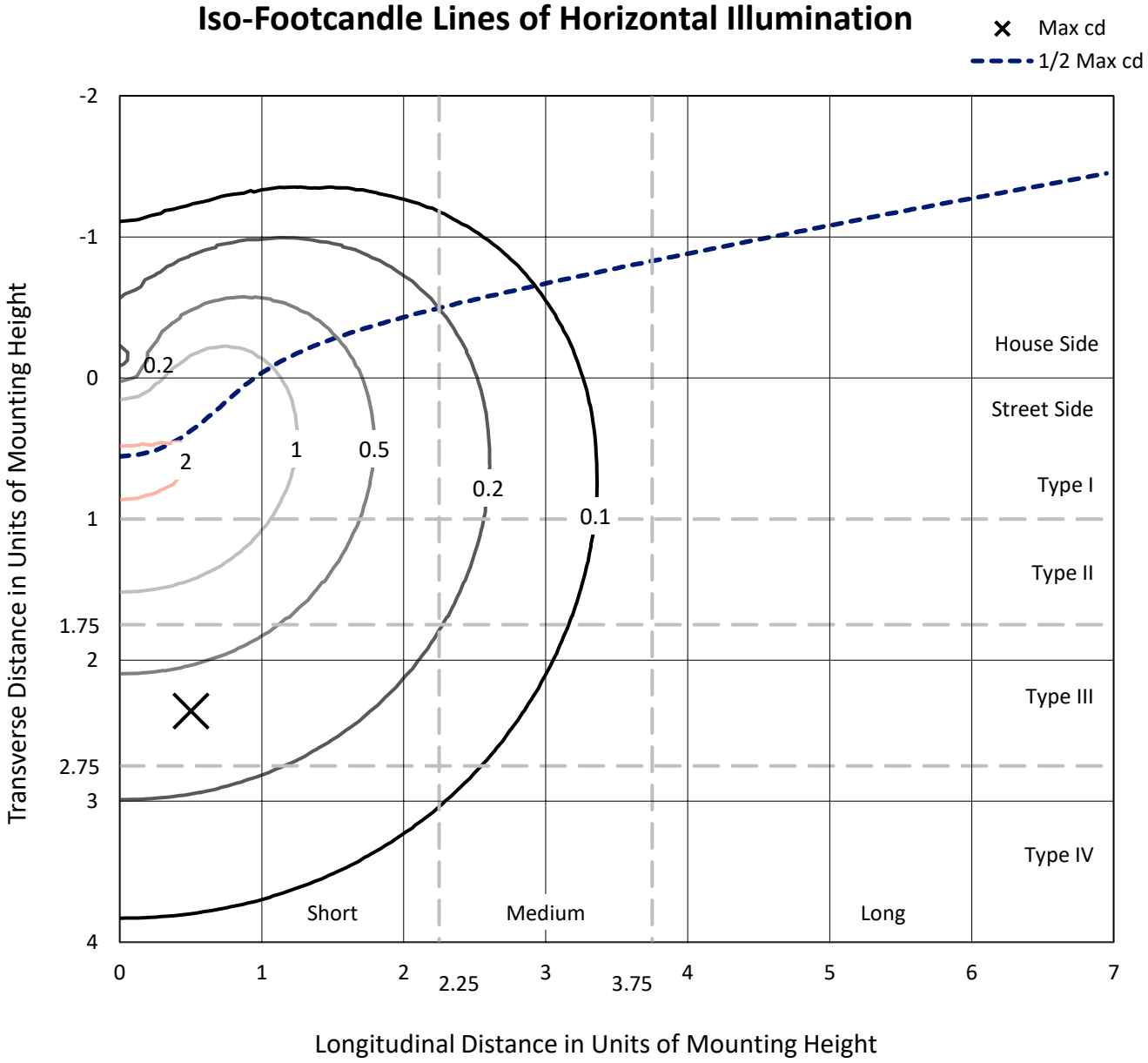


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Iso-Footcandle Lines of Horizontal Illumination



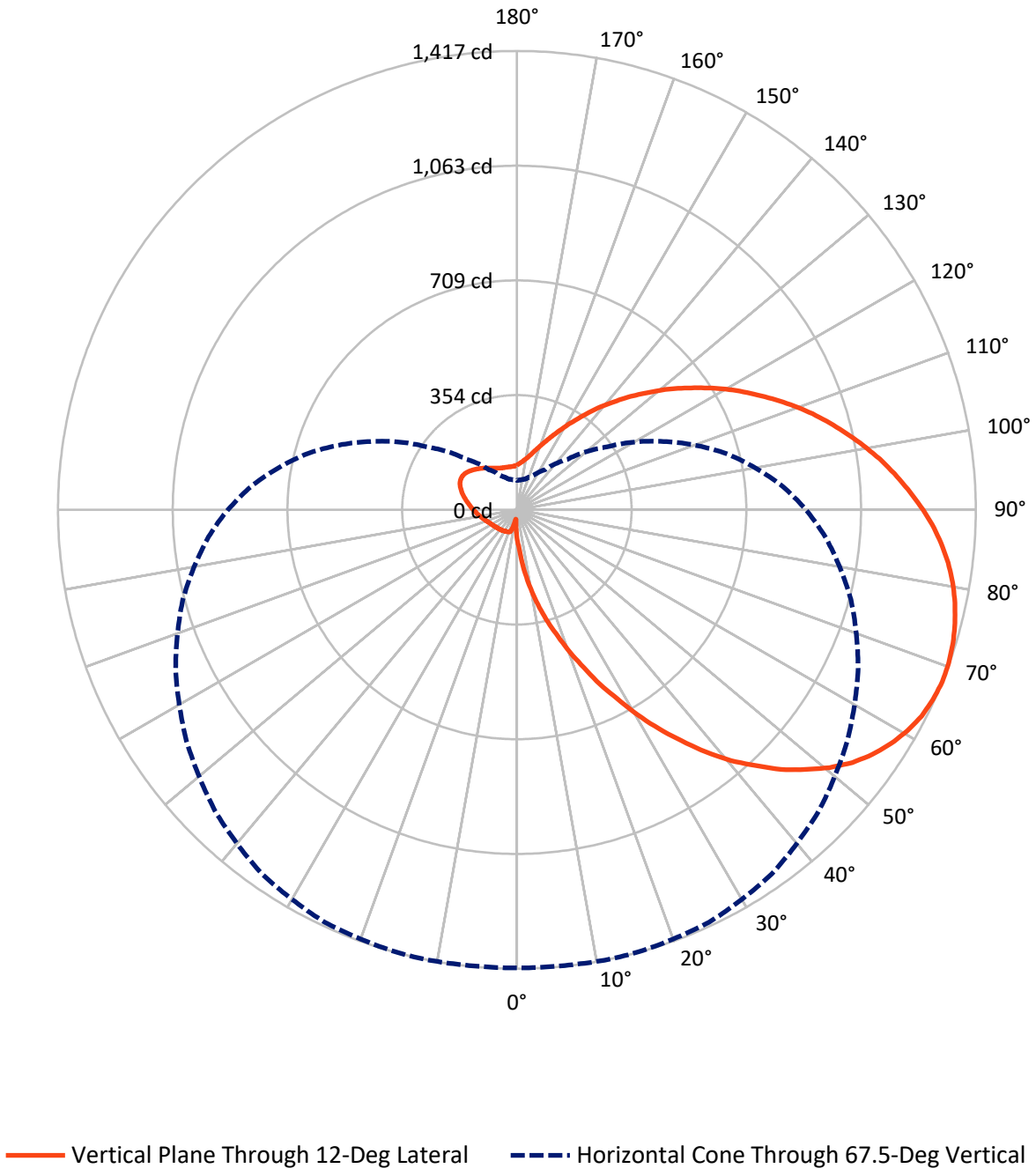
Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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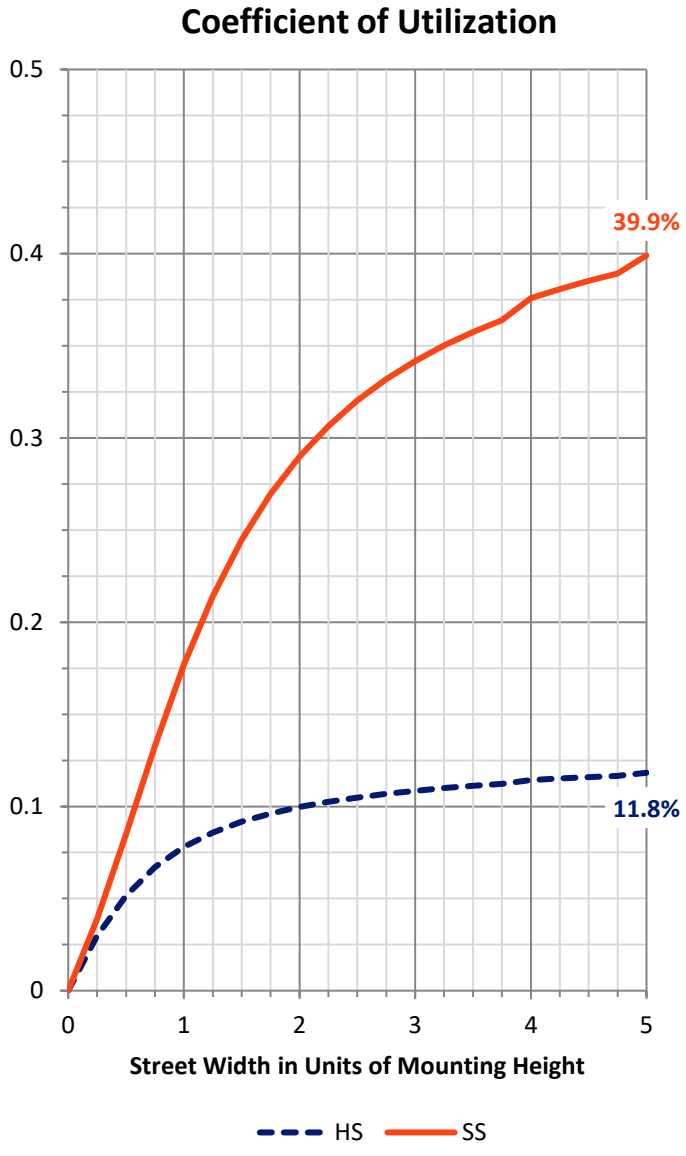
REPORT NUMBER: P1045869
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	926.7	897.0	1823.7
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	3276.6	2101.0	5377.7
	% Fixture	45.5	29.2	74.7
Total	Lumens	4203.3	2998.0	7201.4
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	0.2
10°-20°	64.1	0.9
20°-30°	167.1	2.3
30°-40°	324.3	4.5
40°-50°	509.3	7.1
50°-60°	676.0	9.4
60°-70°	787.8	10.9
70°-80°	837.0	11.6
80°-90°	826.4	11.5
90°-100°	762.0	10.6
100°-110°	665.0	9.2
110°-120°	546.7	7.6
120°-130°	413.9	5.7
130°-140°	282.7	3.9
140°-150°	173.3	2.4
150°-160°	95.1	1.3
160°-170°	45.9	0.6
170°-180°	13.6	0.2
0°-90°	4203.3	58.4
0°-180°	7201.4	100.0



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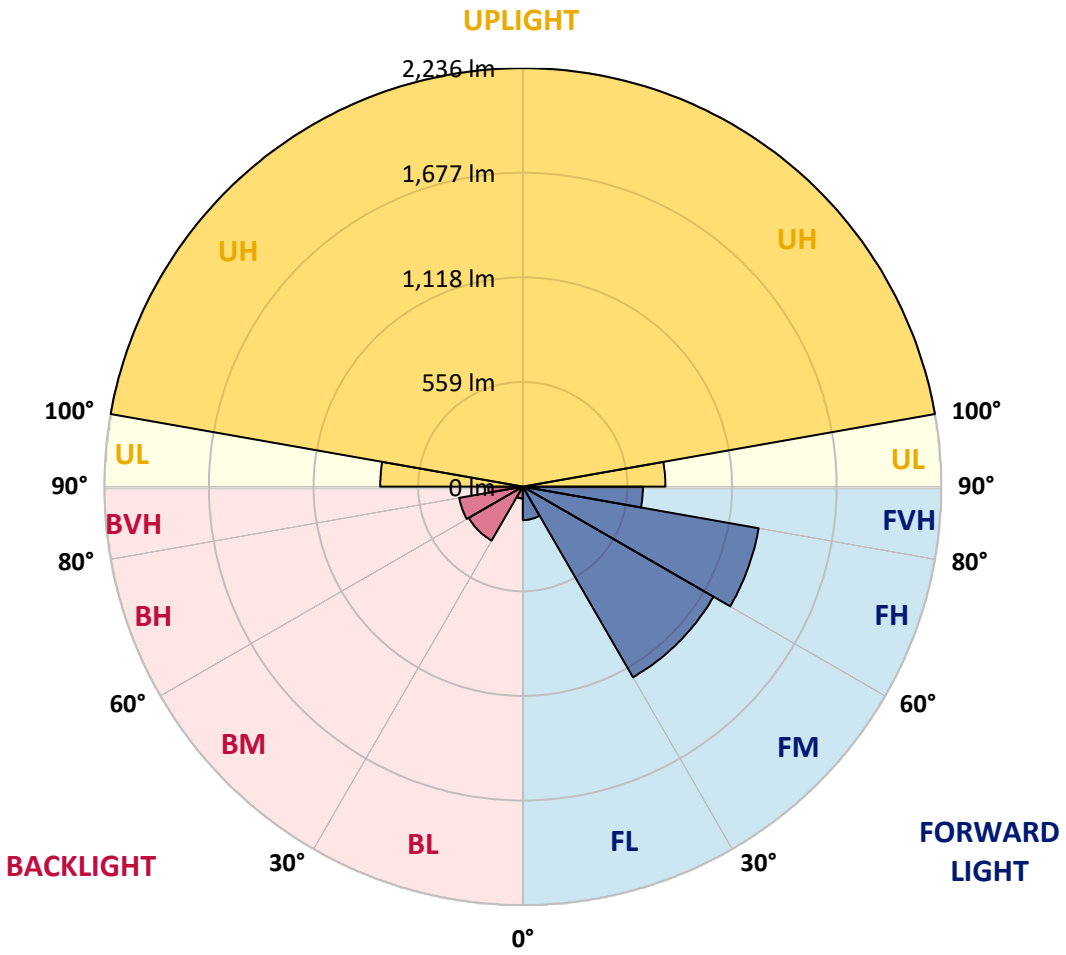
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	179.0	2.5			
FM	(30°-60°)	1176.5	16.3			
FH	(60°-80°)	1279.7	17.8			G1/1800
FVH	(80°-90°)	641.4	8.9			G4/750
BL	(0°-30°)	63.5	0.9	B0/110		
BM	(30°-60°)	333.2	4.6	B1/1000		
BH	(60°-80°)	345.1	4.8	B1/500		G1/500
BVH	(80°-90°)	185.0	2.6			G2/225
UL	(90°-100°)	762.0	10.6		U4/1000	
UH	(100°-180°)	2236.0	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°	91.1	91.1	*91.1*	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2.5°	114.1	116.5	*114.1*	117.2	115.7	115.7	111.7	107.7	102.2	95.9	90.3
5°	161.6	160.8	*157.7*	160.8	157.7	153.7	147.4	137.1	126.8	117.2	105.4
7.5°	210.7	211.5	*209.1*	208.4	201.2	195.7	185.4	175.1	162.4	148.1	133.9
10°	263.8	262.2	*258.3*	259.1	251.1	240.0	228.2	216.3	202.0	185.4	167.2
12.5°	312.9	312.9	*309.8*	310.6	301.8	289.2	279.7	263.8	246.4	226.6	204.4
15°	365.2	362.0	*360.5*	360.5	351.7	340.7	330.4	312.9	292.3	270.1	244.8
17.5°	413.5	412.7	*411.2*	412.0	404.0	394.5	377.9	360.5	335.9	309.0	282.8
20°	475.3	472.2	*469.8*	465.8	461.1	448.4	432.6	409.6	385.0	355.7	320.9
22.5°	531.6	535.5	*529.2*	526.0	519.7	509.4	486.4	464.2	434.9	400.9	362.8
25°	596.5	599.7	*597.3*	593.4	584.7	570.4	549.0	524.5	489.6	450.8	405.6
27.5°	664.7	667.1	*660.7*	662.3	647.2	633.8	612.4	582.3	549.0	503.1	455.5
30°	732.0	736.8	*734.4*	728.8	716.2	704.3	678.9	647.2	609.2	558.5	503.9
32.5°	811.2	805.7	*806.5*	800.1	792.2	773.2	751.0	715.4	671.0	617.1	554.6
35°	884.9	882.5	*876.2*	879.4	865.9	848.5	820.7	782.7	734.4	675.0	606.1
37.5°	950.7	953.0	*949.1*	946.7	938.0	918.2	885.7	846.9	791.4	728.8	653.6
40°	1018.0	1019.6	*1018.8*	1018.8	1006.9	984.7	951.5	907.9	850.8	783.5	701.9
42.5°	1082.2	1083.8	*1079.8*	1080.6	1071.1	1048.1	1012.5	966.5	903.1	832.6	743.9
45°	1144.0	1144.0	*1144.0*	1143.2	1129.7	1108.3	1071.9	1019.6	956.2	876.2	782.7
47.5°	1201.0	1199.4	*1198.6*	1198.6	1189.9	1164.6	1125.8	1068.7	999.8	915.8	820.7
50°	1251.7	1252.5	*1251.7*	1250.1	1236.7	1216.1	1172.5	1113.1	1040.2	953.8	852.4
52.5°	1295.3	1296.1	*1296.9*	1292.9	1284.2	1259.6	1211.3	1147.9	1074.3	983.9	878.6
55°	1330.1	1331.7	*1333.3*	1331.7	1323.0	1293.7	1245.4	1181.2	1102.0	1009.3	901.6
57.5°	1362.6	1361.8	*1362.6*	1361.0	1351.5	1323.0	1273.1	1204.2	1124.2	1029.9	919.0
60°	1384.8	1385.6	*1385.6*	1385.6	1374.5	1345.2	1292.1	1221.6	1140.0	1045.7	934.0
62.5°	1399.9	1400.7	*1403.0*	1401.4	1391.1	1360.3	1305.6	1234.3	1151.9	1056.0	944.3
65°	1410.2	1411.0	*1412.5*	1411.0	1401.4	1369.8	1314.3	1242.2	1159.8	1064.0	951.5
67.5°	*1414.9*	*1414.9*	*1417.3*	*1416.5*	*1405.4*	*1372.9*	*1317.5*	*1245.4*	*1163.0*	*1067.9*	*956.2*
70°	1412.5	1413.3	*1414.9*	1414.1	1403.0	1370.5	1315.1	1243.8	1162.2	1067.9	957.0
72.5°	1407.0	1407.0	*1408.6*	1407.0	1396.7	1364.2	1309.5	1239.0	1158.2	1066.3	956.2
75°	1395.9	1396.7	*1397.5*	1396.7	1385.6	1353.9	1300.0	1230.3	1151.9	1060.8	953.0
77.5°	1382.4	1383.2	*1383.2*	1383.2	1371.3	1339.7	1287.4	1219.2	1143.2	1054.5	947.5
80°	1362.6	1363.4	*1365.0*	1363.4	1351.5	1323.0	1270.7	1205.8	1132.1	1044.2	940.4
82.5°	1340.4	1339.7	*1342.0*	1341.2	1329.4	1300.8	1249.3	1187.5	1115.5	1032.3	930.1
85°	1312.7	1312.7	*1314.3*	1312.7	1302.4	1272.3	1224.0	1165.4	1096.4	1014.8	917.4
87.5°	1281.8	1281.8	*1283.4*	1280.2	1268.4	1242.2	1196.3	1139.2	1075.8	997.4	903.1
90°	1245.4	1247.0	*1247.0*	1244.6	1232.7	1207.4	1165.4	1110.7	1048.9	976.0	886.5
92.5°	1210.5	1210.5	*1208.9*	1208.9	1196.3	1170.9	1132.1	1082.2	1024.3	954.6	868.3
95°	1173.3	1173.3	*1170.9*	1169.3	1156.6	1135.3	1098.0	1052.1	996.6	932.4	850.1
97.5°	1133.7	1132.9	*1131.3*	1129.7	1117.0	1096.4	1063.2	1018.8	968.1	907.1	830.3
100°	1093.3	1094.1	*1088.5*	1087.7	1075.0	1057.6	1025.9	984.7	938.0	881.0	808.9
102.5°	1048.9	1050.5	*1045.7*	1044.9	1032.3	1013.3	987.9	950.7	908.7	856.4	787.5
105°	1009.3	1005.3	*1003.0*	1001.4	990.3	972.9	945.9	916.6	877.0	827.9	763.7
107.5°	964.1	964.9	*960.2*	957.0	945.9	931.7	907.9	881.0	846.1	799.4	740.7
110°	919.0	917.4	*915.0*	913.4	900.8	888.1	867.5	845.3	811.2	770.8	716.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	872.2	873.0	*869.1*	866.7	858.0	844.5	829.5	808.1	778.8	740.7	689.2
115°	828.7	827.1	*823.9*	822.3	812.8	802.5	787.5	771.6	745.5	709.0	662.3
117.5°	784.3	781.1	*780.3*	778.0	770.8	760.5	748.7	735.2	709.8	678.1	633.8
120°	738.4	738.4	*736.8*	735.2	725.7	717.0	709.8	695.6	674.2	644.1	606.1
122.5°	695.6	694.8	*691.6*	689.2	684.5	676.6	667.8	656.8	637.7	610.8	574.4
125°	648.8	650.4	*648.0*	647.2	639.3	635.4	627.4	620.3	600.5	575.9	543.5
127.5°	610.0	607.6	*607.6*	603.7	599.7	595.8	589.4	579.9	566.4	541.1	511.0
130°	568.8	567.2	*564.9*	564.9	560.1	554.6	550.6	542.7	527.6	507.0	478.5
132.5°	527.6	526.0	*524.5*	522.1	518.9	518.1	514.2	505.4	491.2	473.0	448.4
135°	488.8	488.0	*487.2*	487.2	482.5	480.1	475.3	468.2	458.7	442.1	418.3
137.5°	452.4	450.0	*448.4*	448.4	446.8	442.9	438.9	433.3	423.0	409.6	388.2
140°	414.3	415.9	*415.9*	415.1	412.0	409.6	404.8	400.1	389.8	378.7	360.5
142.5°	382.6	381.9	*380.3*	379.5	377.9	374.7	372.3	366.8	360.5	348.6	332.7
145°	348.6	348.6	*347.8*	348.6	345.4	344.6	341.4	336.7	329.6	319.3	305.8
147.5°	318.5	318.5	*317.7*	318.5	316.1	313.7	311.3	308.2	301.8	293.9	282.0
150°	290.7	291.5	*290.0*	290.0	289.2	286.8	285.2	280.4	275.7	269.4	259.1
152.5°	265.4	266.2	*265.4*	264.6	263.8	262.2	259.8	256.7	251.9	246.4	237.7
155°	244.0	243.2	*243.2*	243.2	242.4	240.0	240.0	235.3	230.5	226.6	217.9
157.5°	223.4	223.4	*223.4*	223.4	221.8	221.0	219.4	215.5	213.1	207.6	201.2
160°	206.8	206.0	*206.0*	206.0	204.4	203.6	201.2	199.6	196.5	191.7	187.0
162.5°	190.1	190.9	*190.9*	190.9	189.3	188.5	187.0	185.4	183.0	178.3	175.1
165°	177.5	177.5	*177.5*	176.7	175.9	175.9	173.5	172.7	170.3	167.2	164.8
167.5°	167.2	167.2	*166.4*	167.2	165.6	164.0	163.2	161.6	160.0	158.4	156.1
170°	158.4	158.4	*158.4*	158.4	157.7	156.9	155.3	154.5	152.9	151.3	148.9
172.5°	151.3	151.3	*151.3*	151.3	150.5	149.7	148.1	147.4	146.6	145.0	143.4
175°	145.8	145.8	*145.8*	145.8	145.0	144.2	142.6	142.6	141.8	141.0	139.4
177.5°	141.8	141.8	*141.0*	141.0	140.2	139.4	139.4	138.6	138.6	137.8	137.1
180°	137.1	137.1	*137.1*	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2.5°	87.1	84.0	78.4	73.7	68.1	64.2	60.2	59.4	59.4	61.0	61.0
5°	100.6	93.5	82.4	72.1	60.2	51.5	43.6	36.4	31.7	29.3	29.3
7.5°	126.0	120.4	103.8	89.5	75.3	61.8	49.1	38.0	30.1	24.6	23.8
10°	158.4	149.7	129.9	111.7	92.7	76.1	61.0	47.5	38.0	33.3	33.3
12.5°	193.3	181.4	157.7	135.5	113.3	91.9	74.5	61.0	51.5	46.7	45.2
15°	230.5	217.1	188.5	160.0	133.1	110.1	90.3	73.7	64.2	59.4	58.6
17.5°	265.4	250.3	217.9	183.8	152.9	125.2	101.4	84.0	72.1	66.5	65.8
20°	303.4	283.6	245.6	206.0	169.5	136.3	109.3	88.7	74.5	68.1	67.3
22.5°	342.2	319.3	274.1	228.2	184.6	146.6	114.9	91.1	75.3	68.1	67.3
25°	383.4	358.1	305.0	251.9	201.2	156.9	120.4	93.5	76.8	68.1	67.3
27.5°	427.0	398.5	337.5	277.3	217.9	167.2	126.0	96.7	77.6	68.9	67.3
30°	473.8	441.3	370.8	301.8	233.7	176.7	130.7	98.2	78.4	68.9	68.1
32.5°	520.5	480.9	407.2	325.6	250.3	185.4	135.5	100.6	79.2	69.7	68.9
35°	565.6	526.8	440.5	350.2	266.2	194.1	139.4	102.2	80.8	70.5	68.9
37.5°	611.6	569.6	472.2	373.1	280.4	201.2	142.6	103.8	81.6	71.3	69.7
40°	655.2	606.1	503.1	395.3	292.3	207.6	145.0	104.6	82.4	72.1	70.5
42.5°	696.4	644.1	532.4	414.3	304.2	212.3	147.4	106.2	83.2	72.9	72.1
45°	731.2	677.4	557.7	433.3	312.9	216.3	148.9	107.0	84.0	73.7	72.9
47.5°	765.3	707.5	581.5	448.4	321.6	220.2	149.7	107.7	84.8	75.3	74.5
50°	795.4	734.4	602.9	461.9	328.0	221.8	150.5	108.5	86.4	76.8	76.1
52.5°	820.7	757.4	619.5	473.0	332.7	223.4	150.5	108.5	87.1	78.4	77.6
55°	841.3	777.2	634.6	480.9	335.9	224.2	150.5	109.3	88.7	80.0	79.2
57.5°	858.8	792.2	646.5	488.0	339.1	224.2	150.5	110.1	90.3	81.6	80.8
60°	871.4	804.9	655.2	492.8	339.9	223.4	150.5	110.9	91.9	84.0	83.2
62.5°	881.7	813.6	662.3	495.9	339.9	221.8	150.5	111.7	93.5	86.4	85.6
65°	888.9	820.0	667.1	497.5	339.1	221.0	150.5	113.3	95.9	88.7	87.9
67.5°	*892.8*	*824.7*	*670.2*	*499.1*	*338.3*	*221.0*	*151.3*	*115.7*	*98.2*	*91.9*	*91.1*
70°	894.4	825.5	671.0	498.3	337.5	219.4	152.1	117.2	101.4	95.1	94.3
72.5°	894.4	826.3	671.0	498.3	335.9	220.2	152.9	119.6	104.6	98.2	97.4
75°	892.0	823.9	670.2	496.7	335.1	219.4	155.3	122.8	107.7	102.2	101.4
77.5°	887.3	820.7	667.8	494.3	334.3	220.2	156.9	126.0	111.7	106.2	106.2
80°	881.7	816.0	664.7	492.0	333.5	221.8	159.2	129.9	115.7	110.9	110.1
82.5°	873.0	808.9	659.1	488.8	331.9	222.6	162.4	133.9	120.4	114.9	114.9
85°	861.1	798.6	652.0	484.8	330.4	224.2	165.6	137.1	125.2	119.6	119.6
87.5°	848.5	787.5	643.3	480.1	329.6	225.8	169.5	141.8	129.1	124.4	123.6
90°	833.4	774.0	634.6	474.5	328.8	228.2	172.7	146.6	134.7	129.9	129.1
92.5°	817.6	760.5	625.1	470.6	328.0	230.5	177.5	152.1	140.2	135.5	134.7
95°	801.7	746.3	615.6	465.0	328.0	233.7	182.2	157.7	145.8	141.0	140.2
97.5°	783.5	730.4	604.5	460.3	328.0	237.7	187.8	163.2	151.3	146.6	146.6
100°	764.5	714.6	593.4	455.5	328.8	241.6	193.3	169.5	157.7	152.9	152.9
102.5°	745.5	697.2	583.1	451.6	330.4	247.2	200.4	176.7	164.8	160.0	159.2
105°	724.9	679.7	571.2	446.0	331.9	251.9	206.8	183.0	171.1	166.4	166.4
107.5°	704.3	661.5	559.3	442.1	333.5	256.7	213.9	190.1	178.3	172.7	172.7
110°	681.3	641.7	546.6	437.3	335.1	262.2	219.4	196.5	183.8	179.0	178.3

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

Scaled Data Report

REPORT NUMBER: P1045869
CATALOG NUMBER: FFX-CLB-80-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	657.5	621.9	533.2	431.0	335.9	267.0	225.8	202.8	190.1	184.6	183.8
115°	632.2	599.7	518.1	424.6	335.9	270.9	230.5	207.6	194.9	189.3	188.5
117.5°	606.8	575.9	501.5	415.9	335.1	273.3	234.5	210.7	198.1	192.5	191.7
120°	579.9	552.2	484.8	407.2	331.9	274.1	236.1	213.1	199.6	194.1	193.3
122.5°	552.2	526.8	465.0	395.3	327.2	273.3	236.1	213.1	199.6	193.3	192.5
125°	522.1	499.9	444.4	381.1	320.1	270.1	234.5	211.5	198.1	191.7	190.1
127.5°	492.8	473.0	423.0	366.8	311.3	265.4	231.3	208.4	194.9	188.5	187.8
130°	464.2	444.4	400.9	351.0	301.0	259.1	225.8	203.6	190.9	183.8	183.0
132.5°	434.1	415.9	378.7	334.3	289.2	251.1	220.2	198.8	185.4	179.8	178.3
135°	404.0	389.8	355.7	316.9	277.3	242.4	213.9	193.3	180.6	174.3	174.3
137.5°	377.1	362.8	332.7	299.5	264.6	232.1	206.0	187.0	175.1	169.5	168.7
140°	349.4	338.3	311.3	282.0	251.1	222.6	199.6	181.4	170.3	164.8	164.0
142.5°	323.2	312.1	290.7	263.8	237.7	212.3	191.7	175.1	164.8	160.0	159.2
145°	297.1	289.2	268.6	247.2	224.2	202.0	183.0	168.7	160.0	155.3	155.3
147.5°	274.1	267.0	248.8	230.5	210.7	192.5	175.9	163.2	155.3	151.3	150.5
150°	251.9	245.6	230.5	215.5	197.3	182.2	168.0	157.7	150.5	147.4	146.6
152.5°	231.3	226.6	213.9	201.2	186.2	172.7	161.6	152.9	146.6	143.4	143.4
155°	213.9	209.9	198.8	187.8	175.9	164.8	155.3	148.1	143.4	141.0	140.2
157.5°	198.8	194.1	185.4	176.7	167.2	157.7	150.5	144.2	141.0	138.6	138.6
160°	184.6	180.6	173.5	167.2	159.2	152.1	145.8	141.8	138.6	137.1	137.1
162.5°	172.7	169.5	164.0	158.4	152.9	147.4	142.6	139.4	137.1	135.5	135.5
165°	162.4	160.8	156.1	152.1	147.4	143.4	140.2	137.8	136.3	135.5	135.5
167.5°	154.5	152.9	149.7	146.6	143.4	140.2	137.8	136.3	135.5	134.7	134.7
170°	148.1	146.6	145.0	142.6	140.2	137.8	136.3	135.5	134.7	134.7	134.7
172.5°	143.4	141.8	141.0	139.4	137.8	136.3	135.5	134.7	134.7	134.7	134.7
175°	139.4	138.6	137.8	137.1	136.3	135.5	134.7	134.7	134.7	134.7	134.7
177.5°	137.1	136.3	136.3	135.5	135.5	134.7	134.7	135.5	135.5	135.5	136.3
180°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1

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

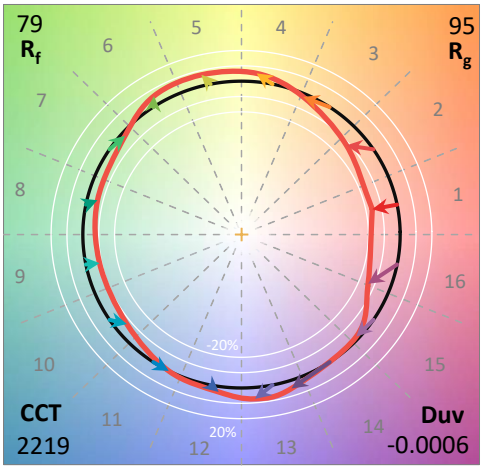
Test Information

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

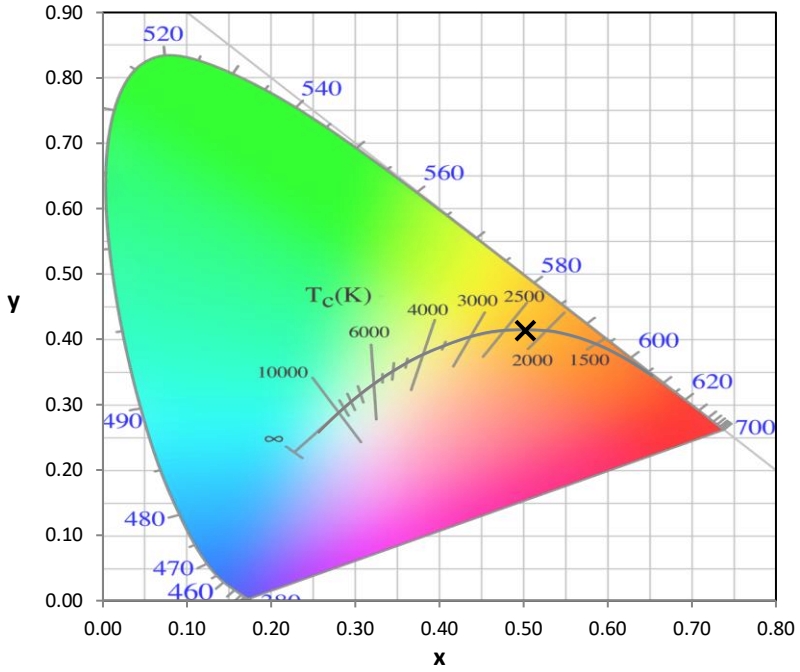
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

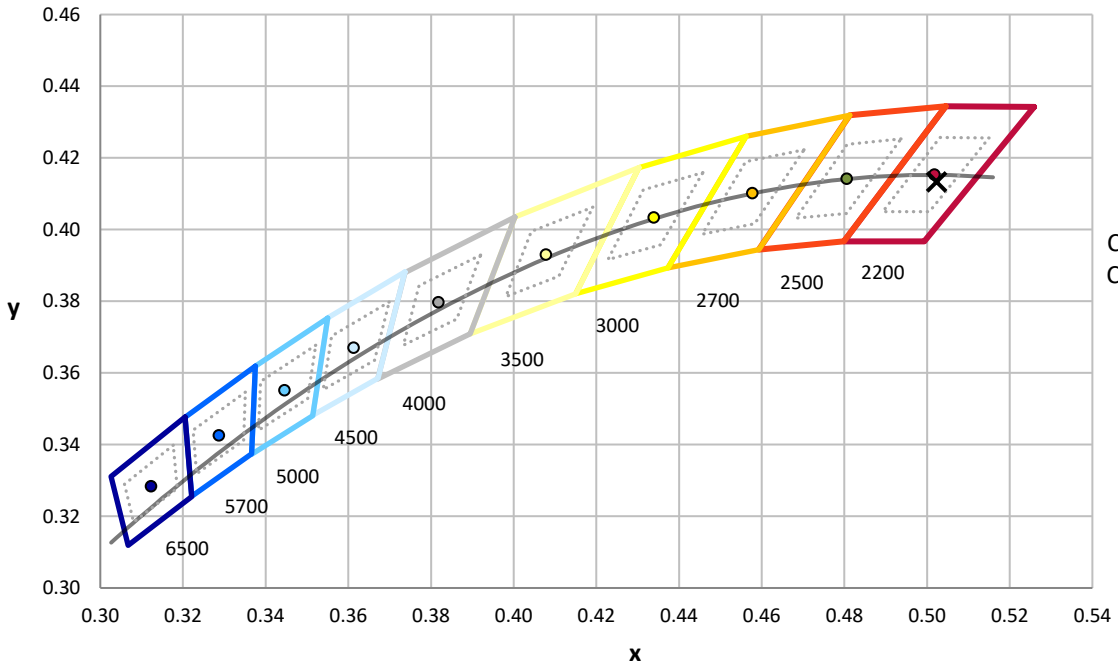
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

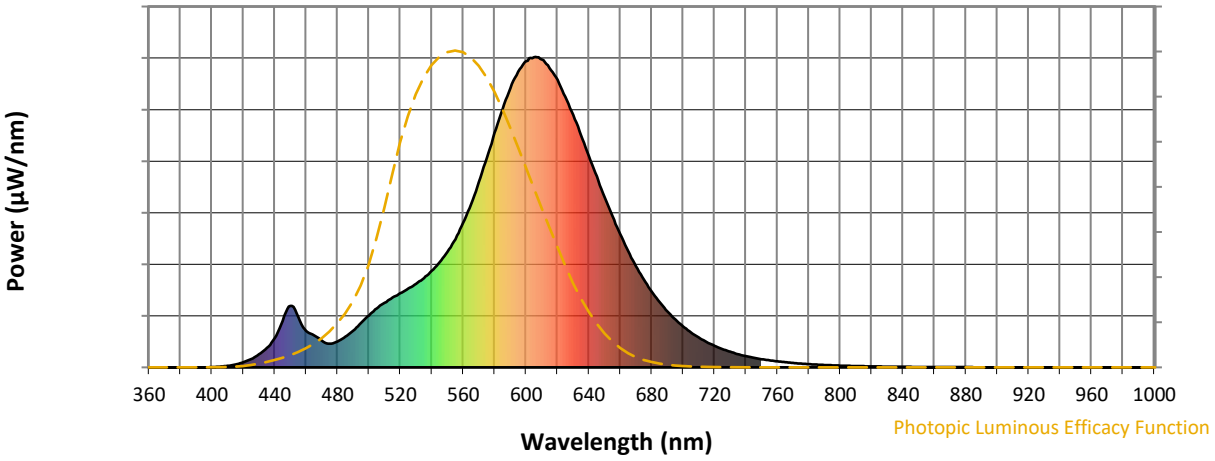


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

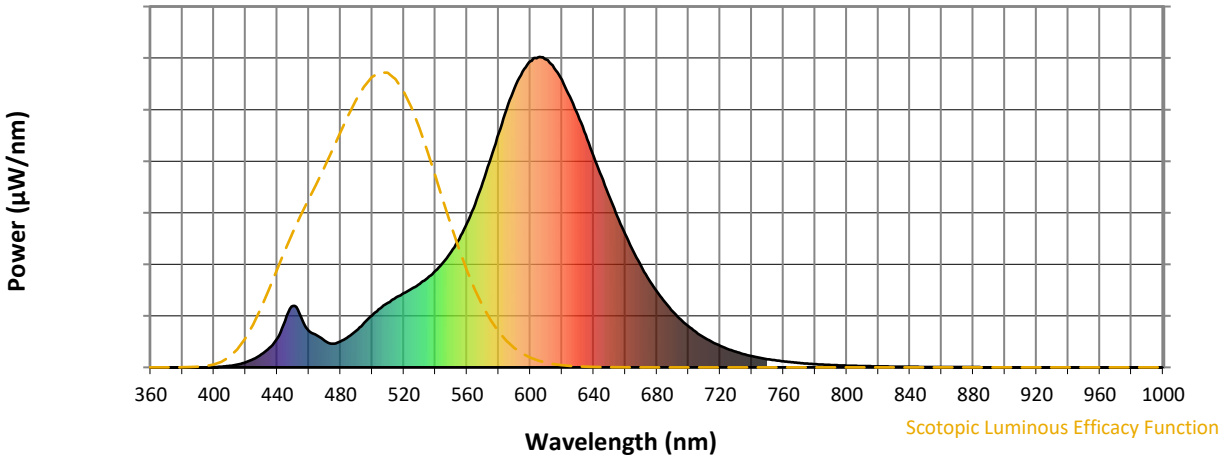


Photopic Lumens: NR

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

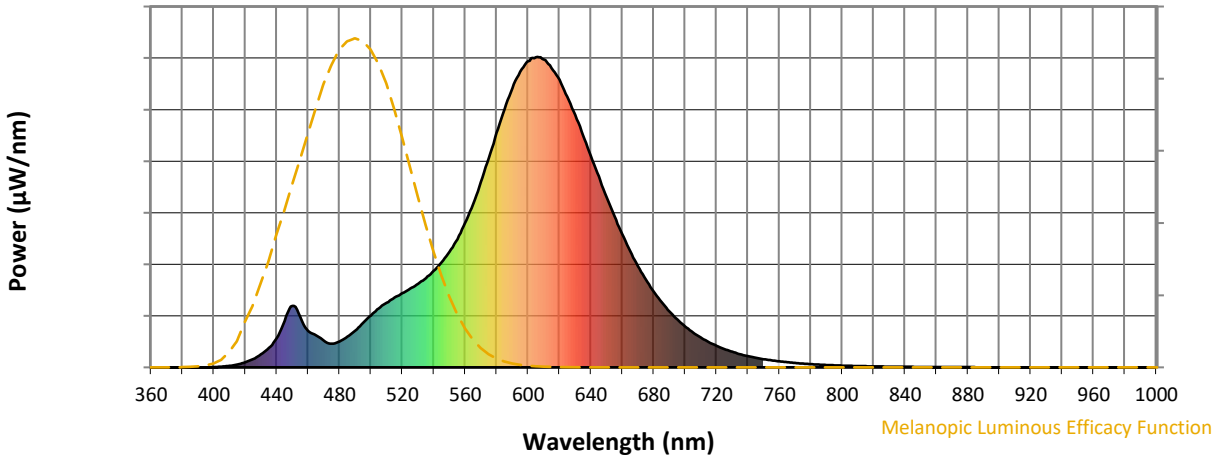


Scotopic Lumens: NR **S/P: 0.94**

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			

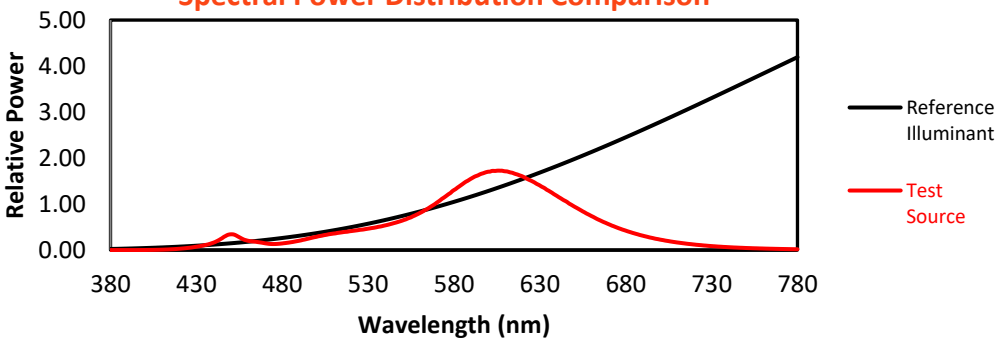
REPORT NUMBER: SP1-2501-332-2

TM-30-18

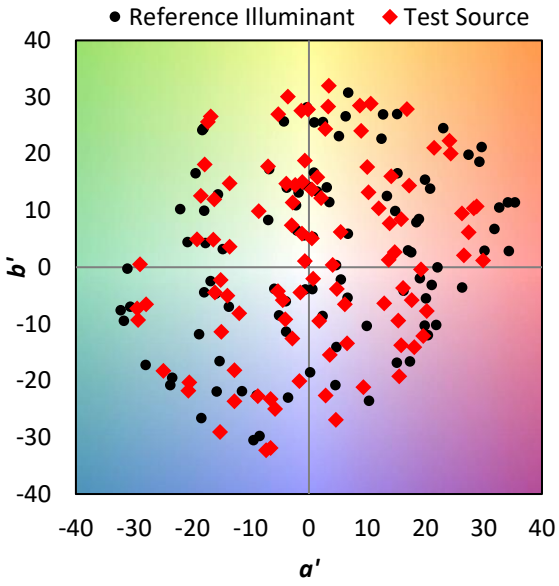
Summary

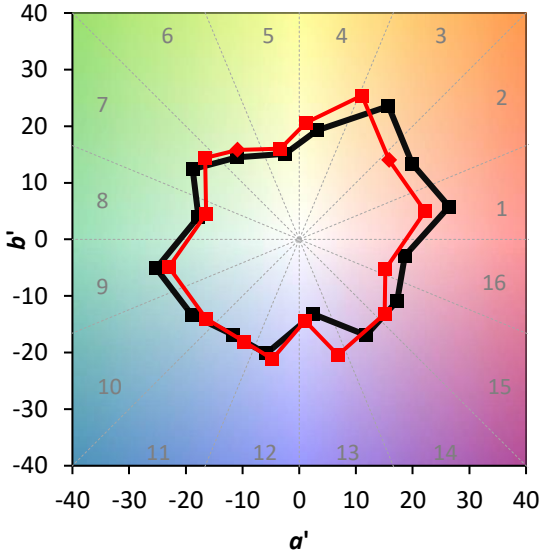
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

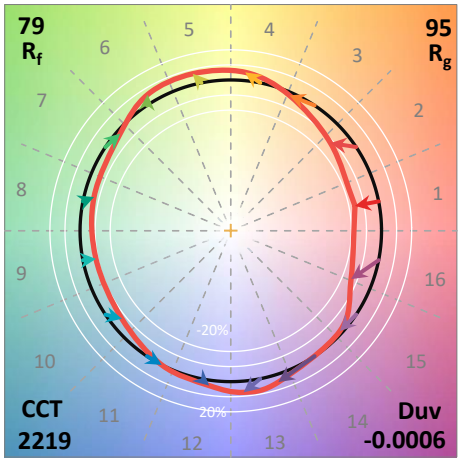
Spectral Power Distribution Comparison

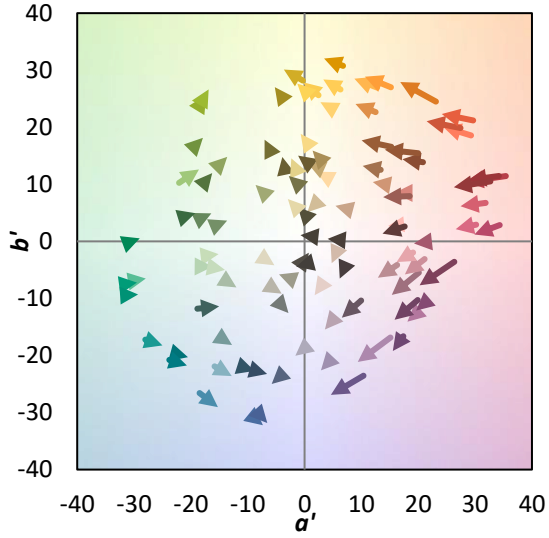


Color Vector Graphics







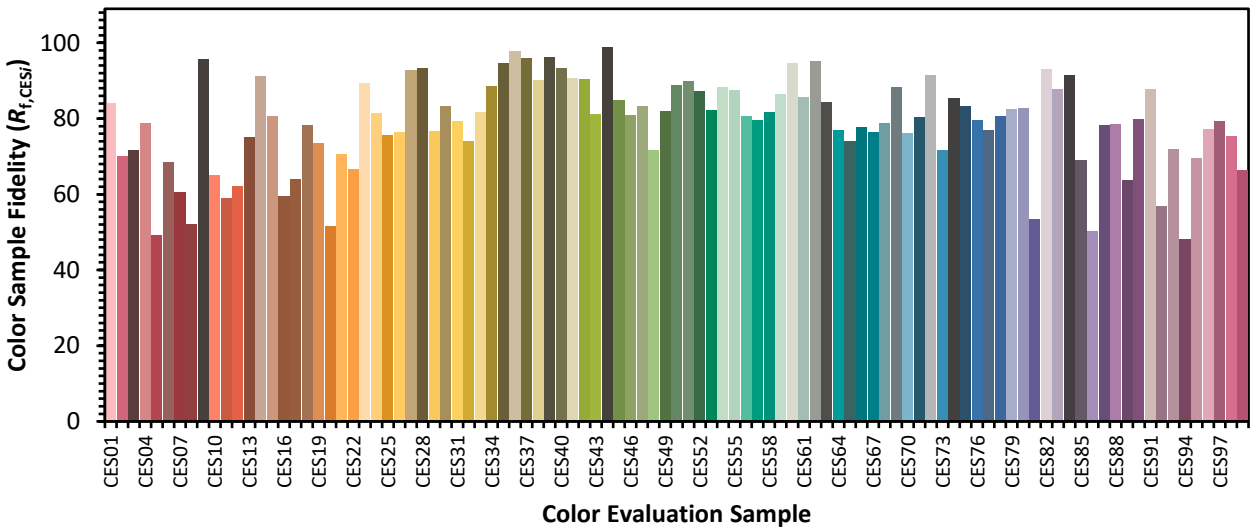


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

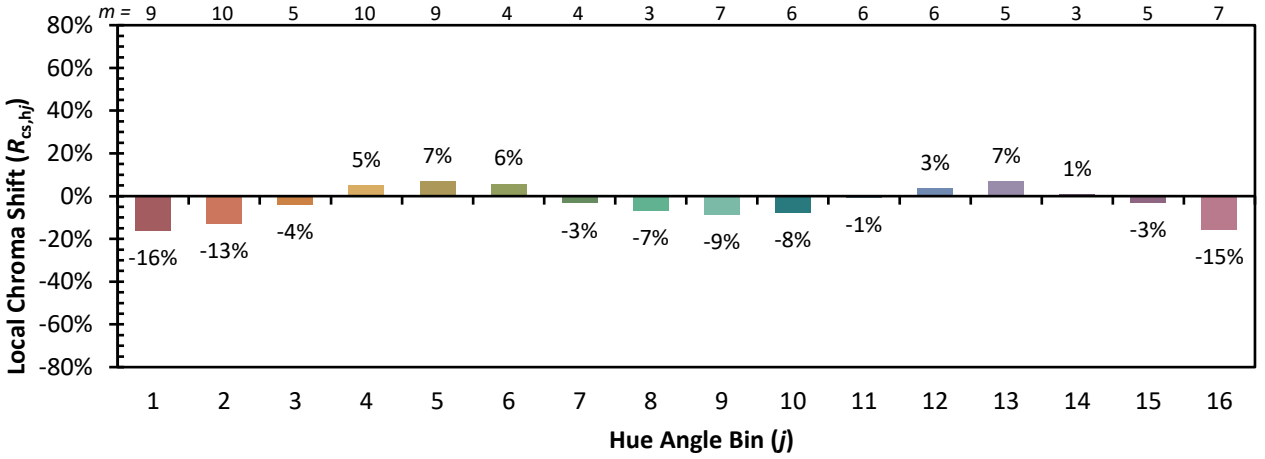
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 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	

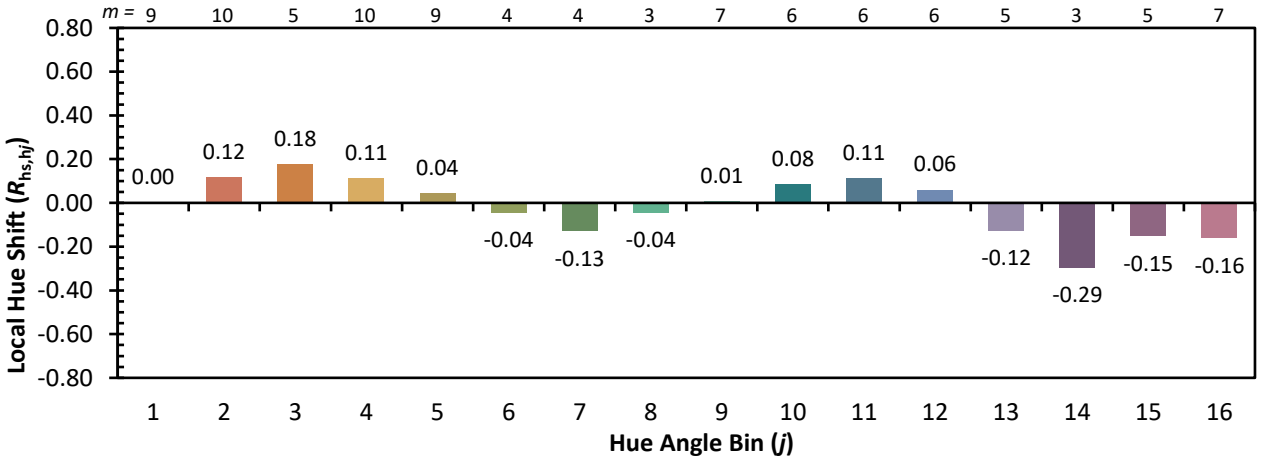


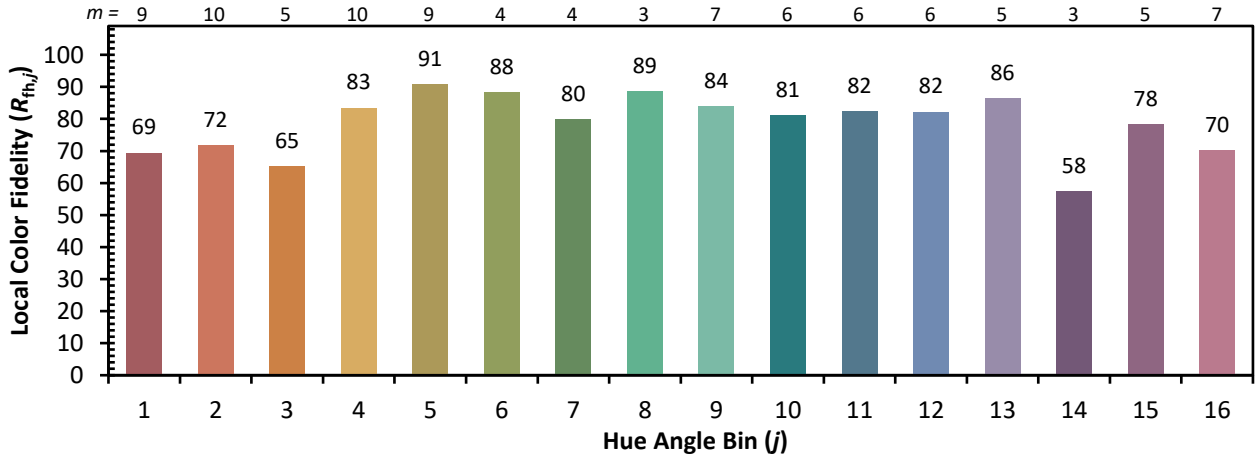
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Color Rendition by Hue-Angle Bin



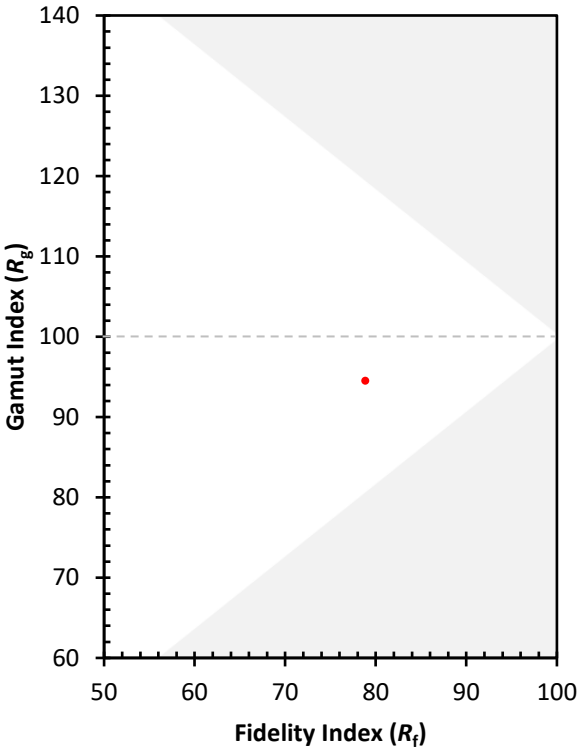


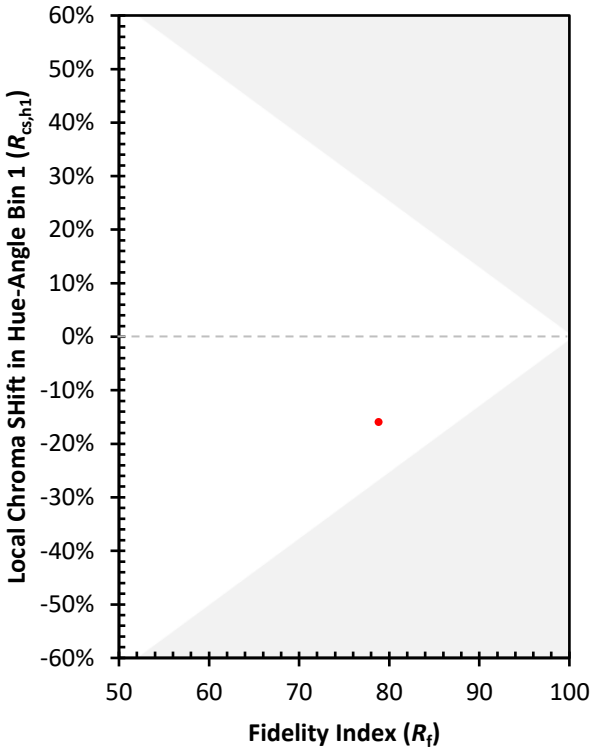


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Measure Comparisons





(END OF REPORT)