

Signify Classified - Internal
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: P856346

Luminaire Tested: **FFX-CLB-80-730-U-VM8**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856346
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-730-U-VM8
Description: FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

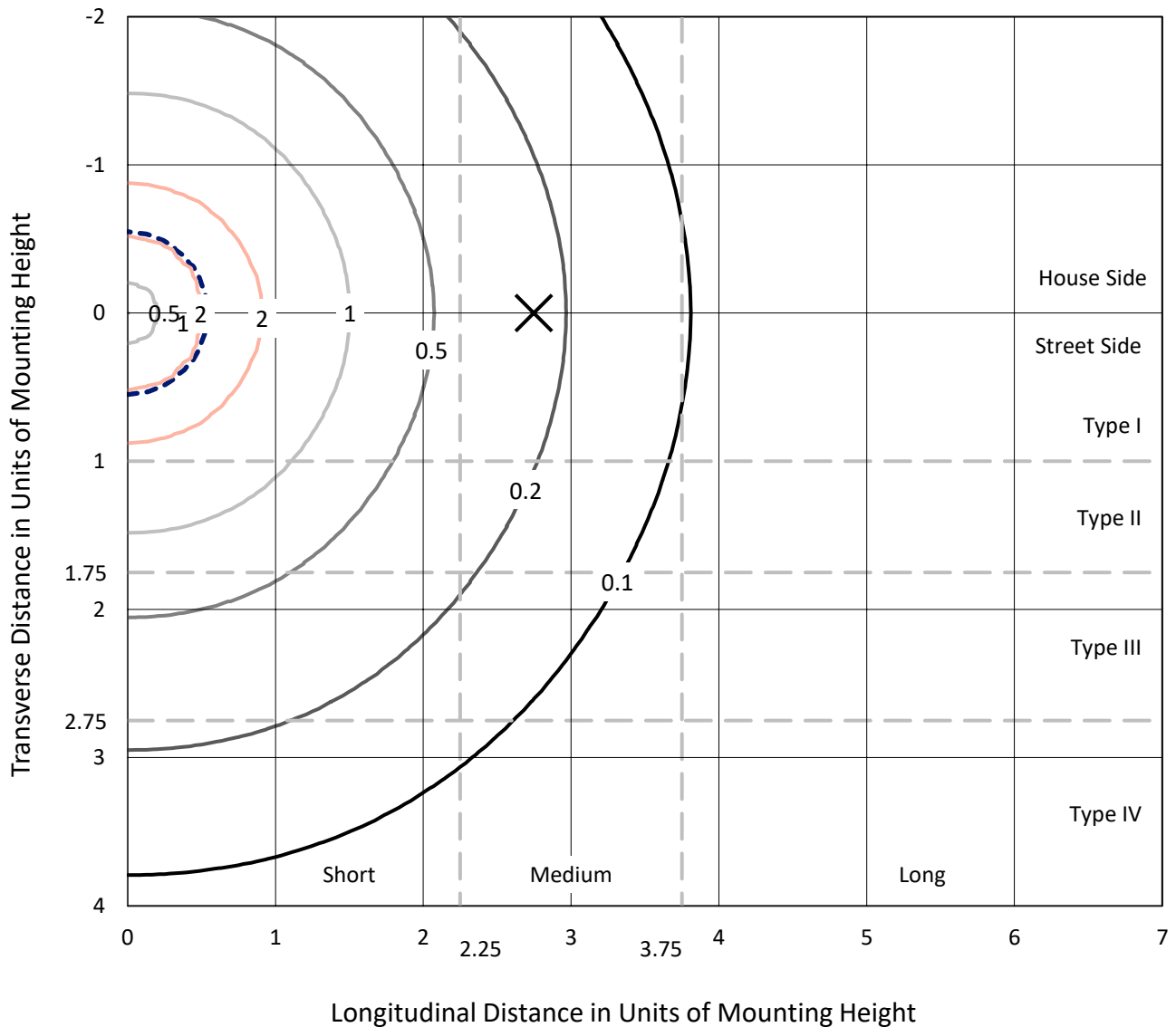
Lumens per Lamp: N/A
Luminaire Lumens: 12732.4 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.1%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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 CATALOG NUMBER: FFX-CLB-80-730-U-VM8

Iso-Footcandle Lines of Horizontal Illumination

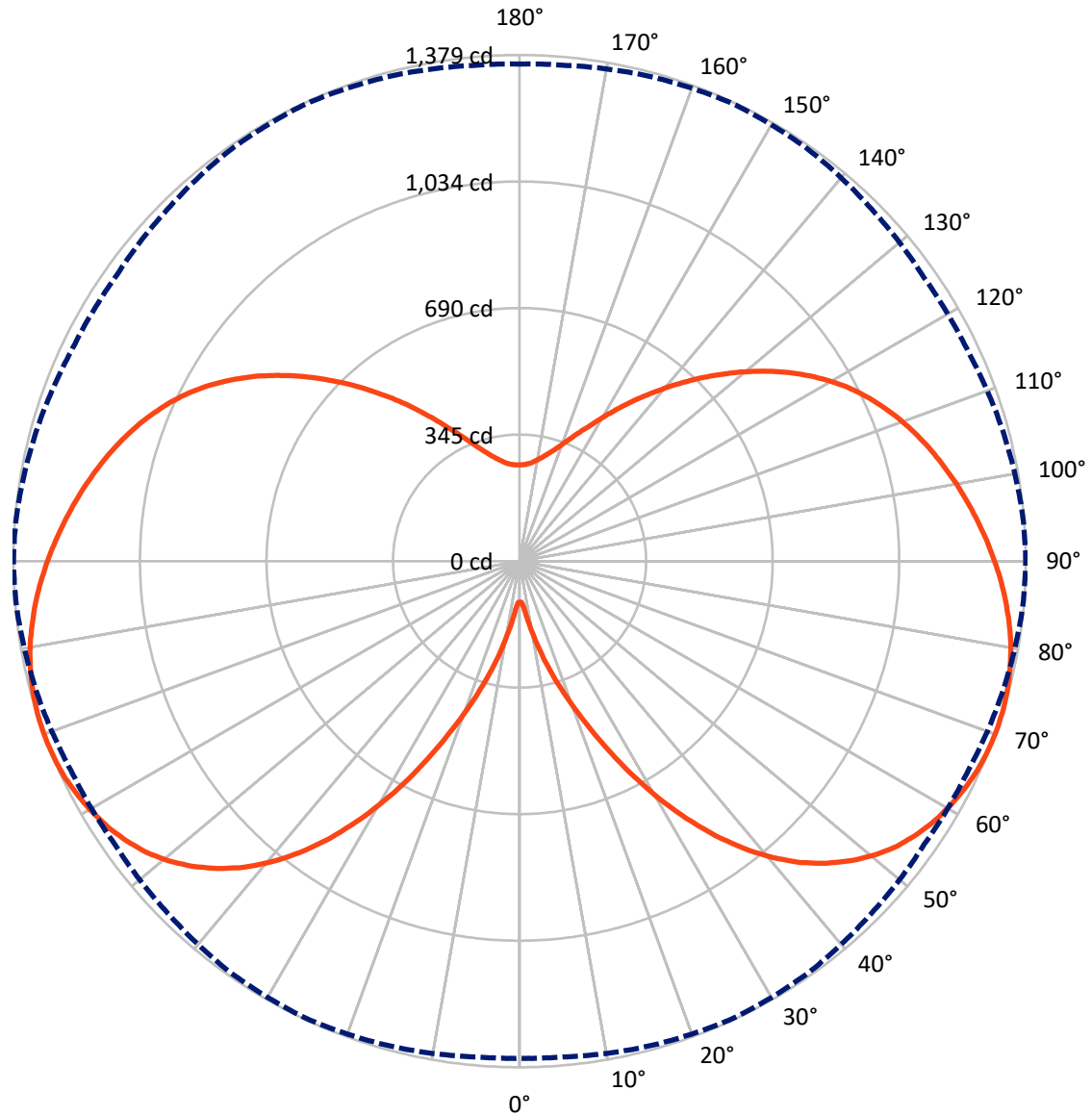
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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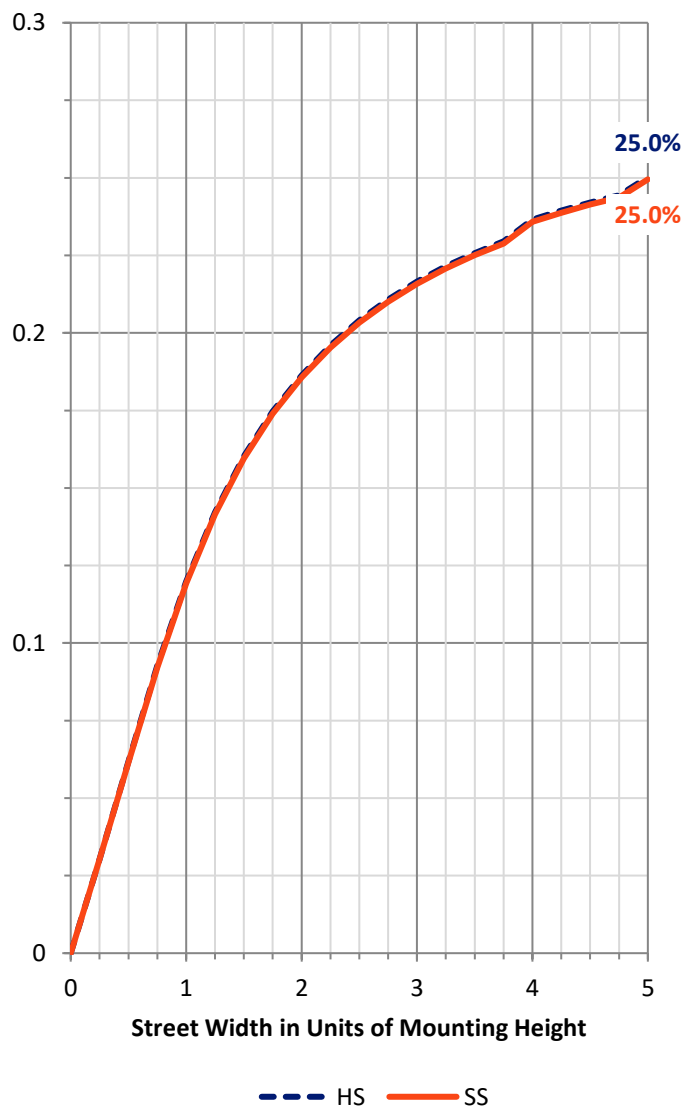
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3605.7	2760.5	6366.2
	% Fixture	28.3	21.7	50.0
Street Side	Lumens	3605.7	2760.5	6366.2
	% Fixture	28.3	21.7	50.0
Total	Lumens	7211.4	5521.0	12732.4
	% Fixture	56.6	43.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.0	0.1
10°-20°	91.1	0.7
20°-30°	272.0	2.1
30°-40°	568.7	4.5
40°-50°	892.5	7.0
50°-60°	1158.5	9.1
60°-70°	1341.1	10.5
70°-80°	1435.6	11.3
80°-90°	1436.8	11.3
90°-100°	1355.0	10.6
100°-110°	1212.4	9.5
110°-120°	1019.4	8.0
120°-130°	782.0	6.1
130°-140°	535.0	4.2
140°-150°	326.4	2.6
150°-160°	178.4	1.4
160°-170°	86.5	0.7
170°-180°	25.7	0.2
0°-90°	7211.4	56.6
0°-180°	12732.4	100.0



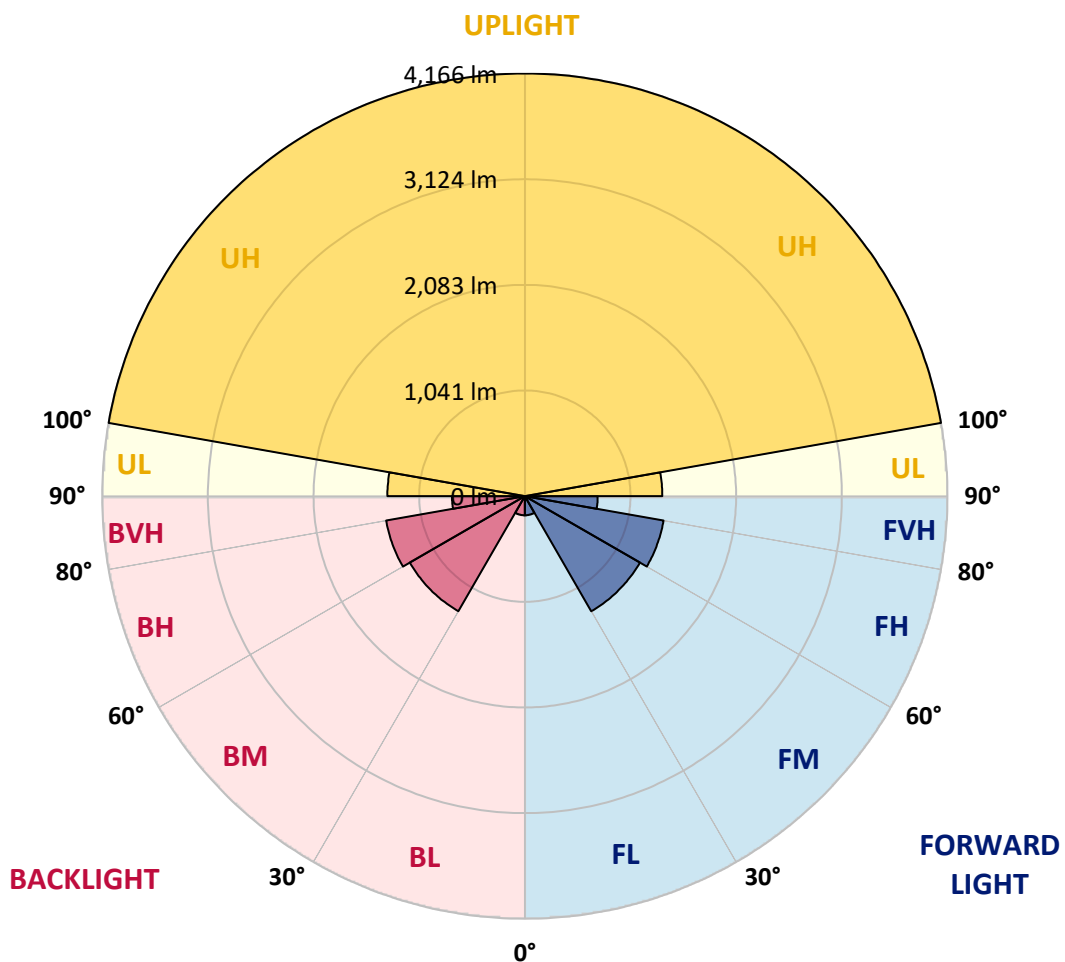
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.1	1.5			
FM (30°-60°)	1309.9	10.3			
FH (60°-80°)	1388.3	10.9			G1/1800
FVH (80°-90°)	718.4	5.6			G4/750
BL (0°-30°)	189.1	1.5	B1/500		
BM (30°-60°)	1309.9	10.3	B2/2500		
BH (60°-80°)	1388.3	10.9	B3/2500		G1/1800
BVH (80°-90°)	718.4	5.6			G4/750
UL (90°-100°)	1355.0	10.6		U5	
UH (100°-180°)	4166.0	32.7		U5	

BUG Rating: B3-U5-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8
2.5°	116.7	116.7	115.9	115.9	115.1	114.2	114.2	114.2	113.4	113.4	112.6
5°	133.0	132.2	132.2	131.4	132.2	131.4	131.4	131.4	131.4	129.7	129.7
7.5°	164.8	164.0	164.0	163.2	164.8	163.2	163.2	164.0	164.0	163.2	163.2
10°	206.4	205.6	205.6	204.0	205.6	204.8	204.8	203.2	204.0	203.2	204.0
12.5°	256.2	253.8	253.8	253.0	254.6	253.8	253.0	251.3	253.0	252.1	252.1
15°	307.6	308.4	307.6	306.8	308.4	308.4	307.6	306.0	307.6	306.0	306.8
17.5°	364.8	364.8	364.8	362.3	364.8	365.6	364.8	363.1	363.9	364.8	364.8
20°	426.8	426.8	427.6	426.0	430.0	427.6	426.8	426.0	426.8	427.6	428.4
22.5°	495.3	495.3	496.1	495.3	497.8	497.8	496.9	496.9	497.8	499.4	499.4
25°	571.2	572.0	572.0	569.6	575.3	576.9	575.3	575.3	576.9	579.4	579.4
27.5°	649.5	652.8	651.2	651.2	658.5	659.3	658.5	659.3	661.8	664.2	665.0
30°	730.3	732.8	736.0	733.6	741.7	742.6	743.4	744.2	747.5	751.5	751.5
32.5°	811.1	813.6	815.2	815.2	825.8	825.0	824.2	827.4	832.3	834.0	836.4
35°	891.9	891.9	893.5	894.3	904.9	904.1	905.8	908.2	913.1	916.4	918.0
37.5°	964.5	962.9	967.0	968.6	976.8	977.6	978.4	982.5	988.2	992.3	993.9
40°	1030.6	1029.0	1033.9	1036.3	1043.7	1043.7	1045.3	1050.2	1056.7	1060.8	1061.6
42.5°	1089.4	1088.5	1093.4	1096.7	1104.0	1103.2	1102.4	1108.9	1116.3	1121.2	1122.8
45°	1140.0	1139.1	1145.7	1149.7	1155.5	1153.8	1153.8	1159.5	1167.7	1173.4	1174.2
47.5°	1183.2	1183.2	1190.5	1195.4	1200.3	1197.9	1196.3	1202.0	1210.1	1218.3	1219.1
50°	1221.6	1220.7	1228.9	1234.6	1238.7	1235.4	1233.0	1238.7	1247.7	1255.8	1257.5
52.5°	1251.7	1253.4	1261.5	1268.9	1272.1	1267.2	1263.2	1268.9	1278.7	1287.6	1289.3
55°	1277.9	1278.7	1287.6	1296.6	1298.3	1291.7	1286.8	1291.7	1302.3	1312.1	1313.8
57.5°	1298.3	1299.9	1310.5	1318.7	1319.5	1312.1	1306.4	1310.5	1321.9	1331.7	1334.2
60°	1316.2	1317.8	1327.6	1336.6	1337.4	1328.4	1321.1	1324.4	1336.6	1348.0	1349.7
62.5°	1330.1	1332.5	1343.1	1351.3	1351.3	1340.7	1331.7	1335.0	1348.0	1360.3	1361.9
65°	1341.5	1344.0	1354.6	1362.7	1361.9	1349.7	1339.9	1343.1	1357.0	1369.2	1371.7
67.5°	1349.7	1351.3	1362.7	1370.9	1367.6	1354.6	1344.8	1347.2	1361.9	1374.1	1376.6
70°	1354.6	1356.2	1367.6	1375.0	1370.1	1356.2	1345.6	1348.8	1363.5	1376.6	1379.0
72.5°	1357.0	1359.5	1370.1	1376.6	1370.9	1355.4	1344.0	1348.0	1362.7	1376.6	1378.2
75°	1356.2	1357.8	1368.4	1374.1	1366.8	1352.1	1339.9	1344.0	1359.5	1371.7	1374.1
77.5°	1352.1	1353.7	1363.5	1368.4	1359.5	1344.8	1333.3	1337.4	1352.1	1364.4	1366.8
80°	1345.6	1347.2	1356.2	1359.5	1350.5	1335.8	1325.2	1329.3	1343.1	1354.6	1357.0
82.5°	1335.0	1337.4	1345.6	1347.2	1337.4	1324.4	1313.8	1317.8	1330.9	1341.5	1343.1
85°	1321.9	1323.6	1330.9	1331.7	1321.9	1310.5	1301.5	1305.6	1317.0	1325.2	1327.6
87.5°	1307.2	1307.2	1314.6	1314.6	1304.0	1293.4	1286.8	1290.1	1300.7	1307.2	1309.7
90°	1289.3	1290.1	1295.0	1294.2	1284.4	1275.4	1269.7	1273.8	1282.8	1288.5	1290.1
92.5°	1269.7	1270.5	1274.6	1273.0	1263.2	1255.8	1250.9	1255.8	1264.0	1268.1	1269.7
95°	1248.5	1249.3	1252.6	1249.3	1240.3	1234.6	1230.5	1236.2	1242.8	1246.8	1248.5
97.5°	1226.4	1227.3	1229.7	1226.4	1216.7	1211.8	1210.1	1215.0	1221.6	1224.8	1226.4
100°	1203.6	1203.6	1205.2	1200.3	1192.2	1188.1	1187.3	1193.0	1199.5	1202.8	1204.4
102.5°	1178.3	1179.1	1179.1	1174.2	1166.1	1163.6	1163.6	1170.1	1176.7	1179.1	1180.8
105°	1152.2	1152.2	1152.2	1148.1	1139.1	1137.5	1138.3	1144.8	1152.2	1155.5	1157.1
107.5°	1123.6	1124.4	1122.8	1118.7	1111.4	1109.8	1111.4	1120.4	1126.9	1130.2	1131.8
110°	1093.4	1094.3	1093.4	1088.5	1082.0	1081.2	1083.6	1092.6	1099.2	1102.4	1104.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1061.6	1062.4	1061.6	1057.5	1051.0	1051.0	1054.3	1063.2	1070.6	1073.0	1075.5
115°	1028.2	1029.0	1027.3	1024.1	1017.6	1019.2	1022.4	1031.4	1038.8	1041.2	1044.5
117.5°	992.3	993.1	992.3	988.2	982.5	984.1	989.0	998.0	1004.5	1006.9	1010.2
120°	953.1	953.1	953.1	949.0	943.3	946.6	951.5	961.2	967.0	968.6	971.9
122.5°	913.1	911.5	911.5	909.0	902.5	906.6	911.5	921.3	927.0	927.8	930.2
125°	869.0	869.9	867.4	865.8	860.1	865.0	869.0	878.8	883.7	884.5	887.0
127.5°	821.7	824.2	821.7	819.3	815.2	820.1	825.0	834.0	838.0	838.8	840.5
130°	777.6	777.6	775.2	773.6	769.5	774.4	779.3	787.4	791.5	791.5	793.2
132.5°	733.6	731.1	730.3	728.7	723.8	729.5	732.8	740.9	744.2	743.4	745.0
135°	685.4	685.4	683.0	682.2	678.1	683.8	687.1	694.4	696.9	696.0	697.7
137.5°	640.6	640.6	638.9	637.3	634.8	639.7	643.0	648.7	651.2	648.7	651.2
140°	596.5	596.5	595.7	594.0	591.6	596.5	598.9	603.8	606.3	603.8	605.5
142.5°	555.7	554.1	553.2	552.4	549.2	554.1	555.7	560.6	561.4	559.8	562.2
145°	512.4	513.3	512.4	511.6	509.2	513.3	514.9	519.0	519.8	518.2	520.6
147.5°	476.5	474.1	474.9	474.1	471.6	475.7	476.5	479.0	480.6	479.0	480.6
150°	440.6	439.0	439.0	438.2	436.6	439.8	440.6	443.1	443.9	442.3	443.9
152.5°	408.8	408.0	408.0	407.2	405.6	408.0	408.8	410.4	411.3	409.6	410.4
155°	380.3	379.4	379.4	378.6	377.0	379.4	379.4	381.1	381.9	381.1	381.9
157.5°	355.0	354.1	354.1	354.1	352.5	354.1	354.1	355.8	355.8	355.0	355.8
160°	334.6	332.9	333.7	332.9	331.3	332.9	332.9	333.7	333.7	333.7	333.7
162.5°	315.8	315.8	315.8	315.0	314.2	315.0	315.0	315.8	315.8	315.8	315.0
165°	301.1	301.1	301.1	300.3	299.5	300.3	300.3	300.3	300.3	300.3	300.3
167.5°	288.9	288.0	288.9	288.0	287.2	288.0	288.0	288.0	288.0	288.0	288.0
170°	278.3	278.3	278.3	278.3	277.4	278.3	278.3	278.3	278.3	278.3	278.3
172.5°	271.7	270.9	270.9	270.9	270.1	270.9	270.1	270.9	270.1	270.9	270.1
175°	266.0	266.0	266.0	266.0	265.2	265.2	265.2	265.2	265.2	265.2	265.2
177.5°	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8
180°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

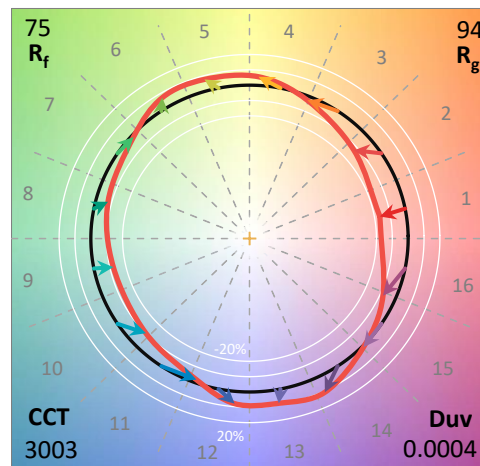
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-730-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3003
 CIE u': 0.2503
 CIE v': 0.5219
 Duv: 0.0004
 CIE x: 0.4373
 CIE y: 0.4053
 CIE z: 0.1573
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 52.93545
 Rf: 75.2
 Rg: 93.8

CRI (Ra):	71.9		
R1:	68.2	R9:	-33.7
R2:	82.2	R10:	59.0
R3:	93.9	R11:	62.4
R4:	67.6	R12:	48.5
R5:	67.2	R13:	70.8
R6:	75.3	R14:	96.6
R7:	77.6	R15:	60.0
R8:	43.1		



Test Conditions

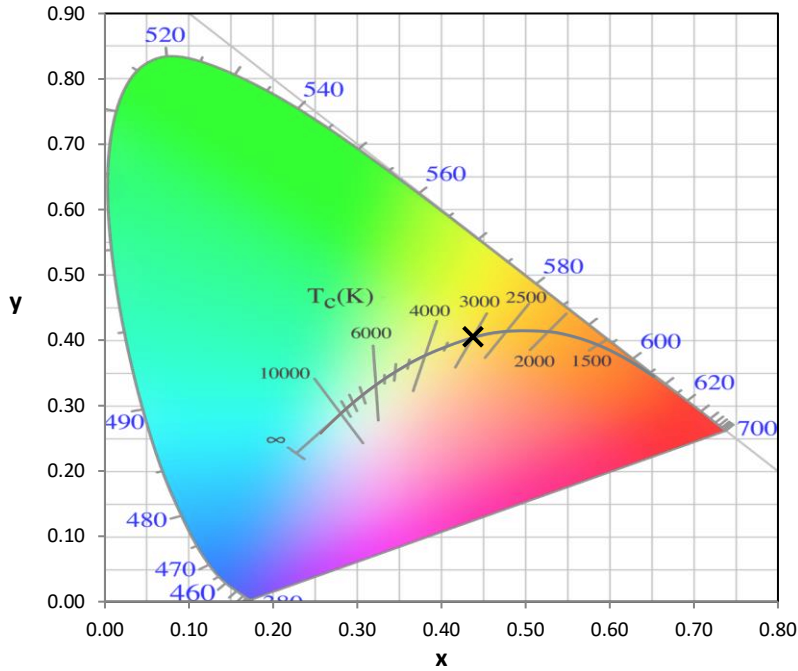
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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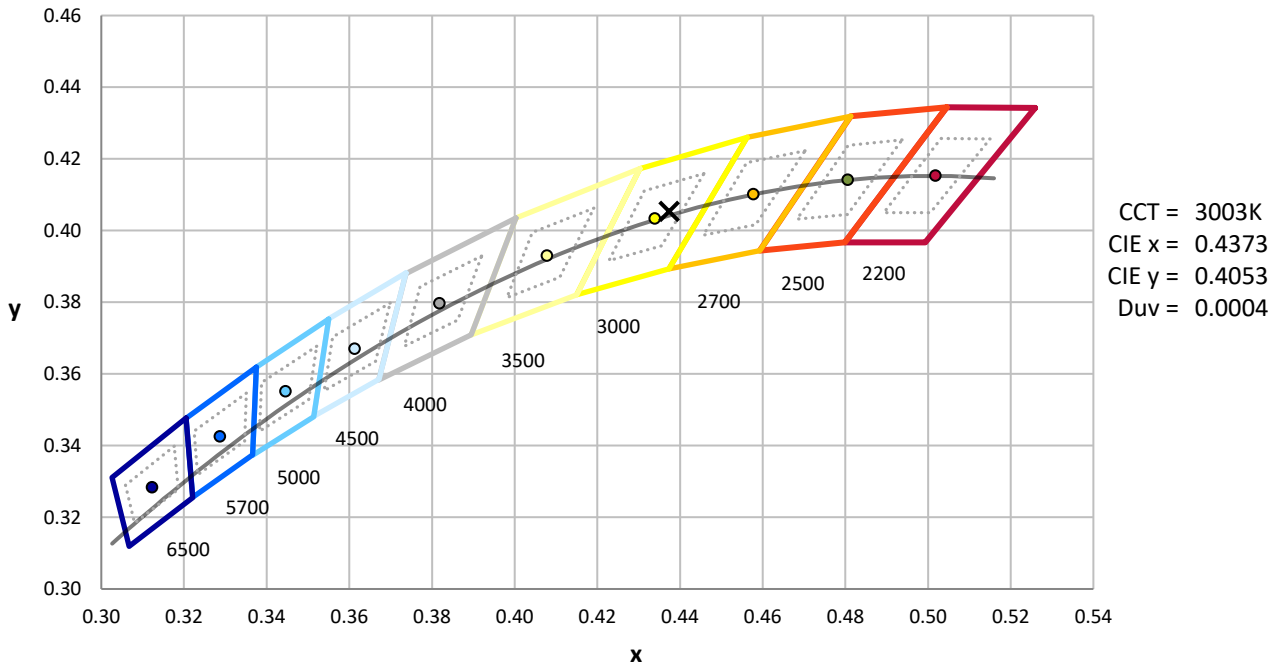
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



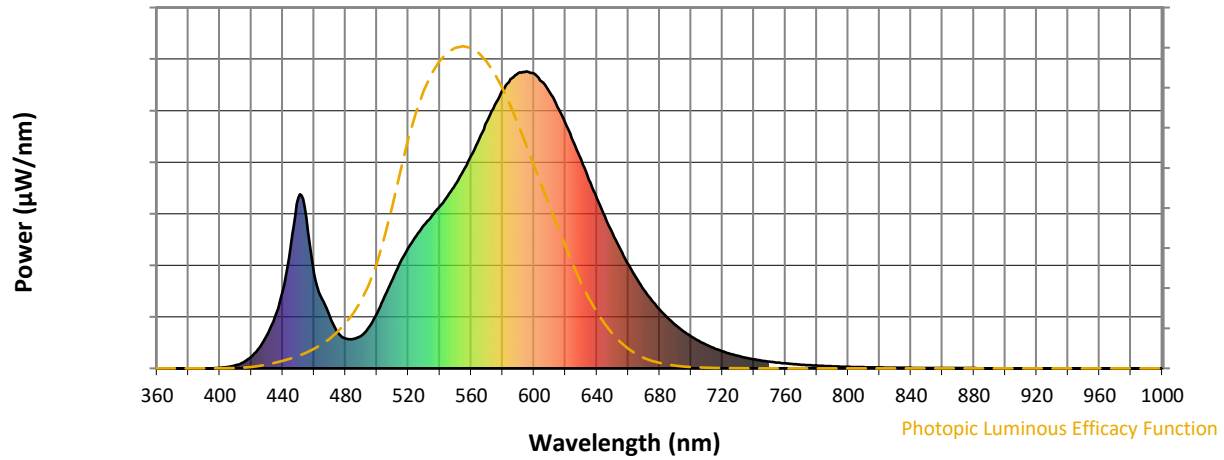
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

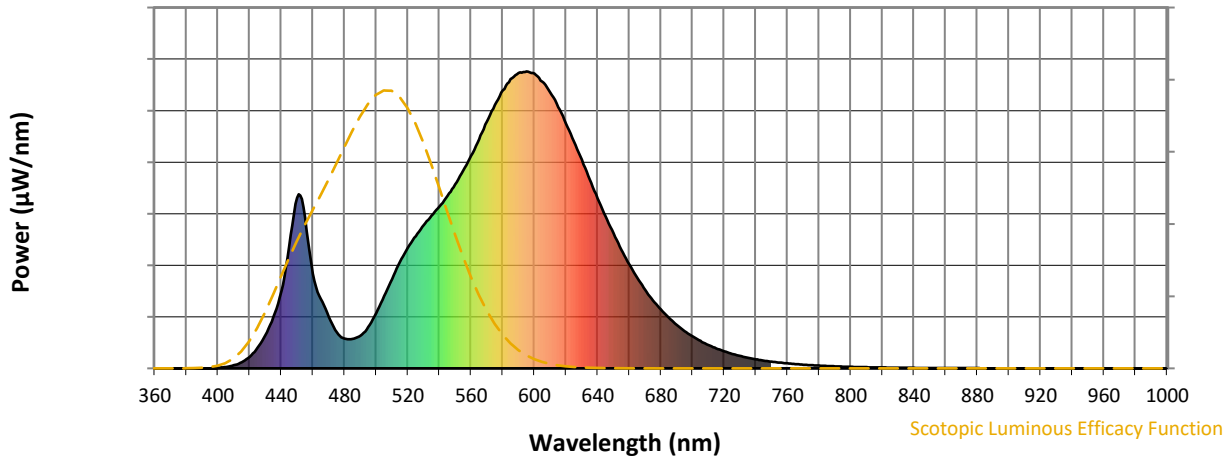


Photopic Lumens: NR

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



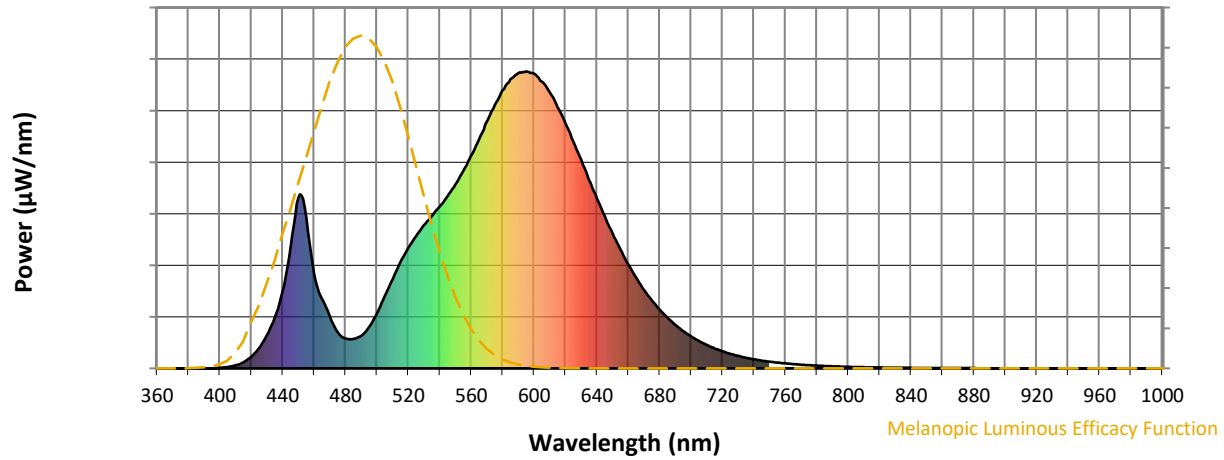
Scotopic Lumens: NR

S/P: 1.21

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

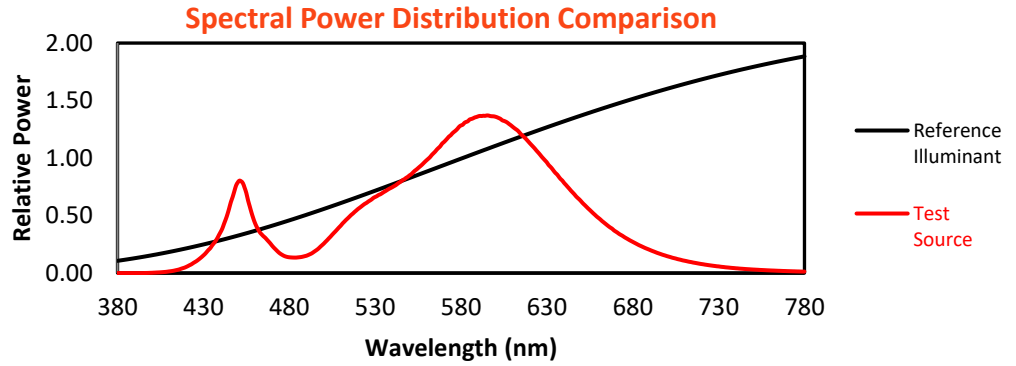
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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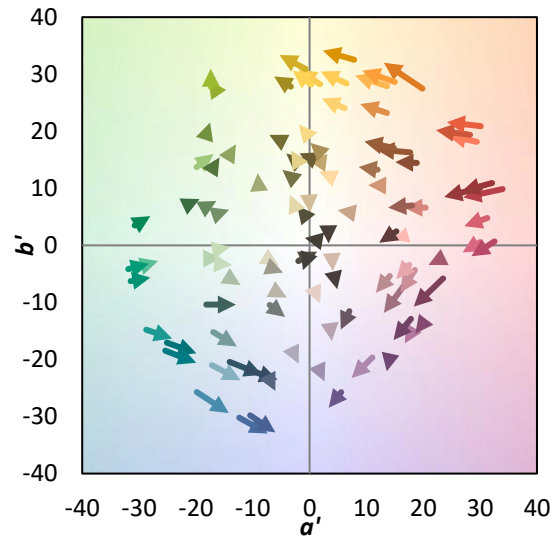
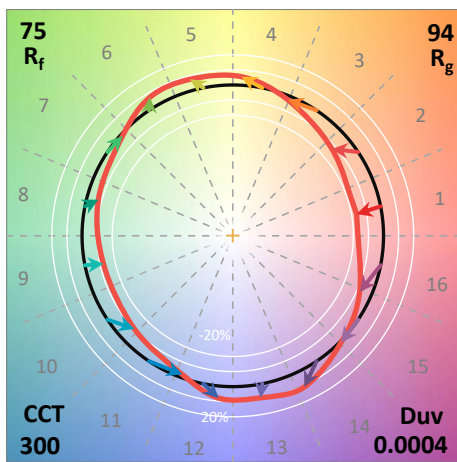
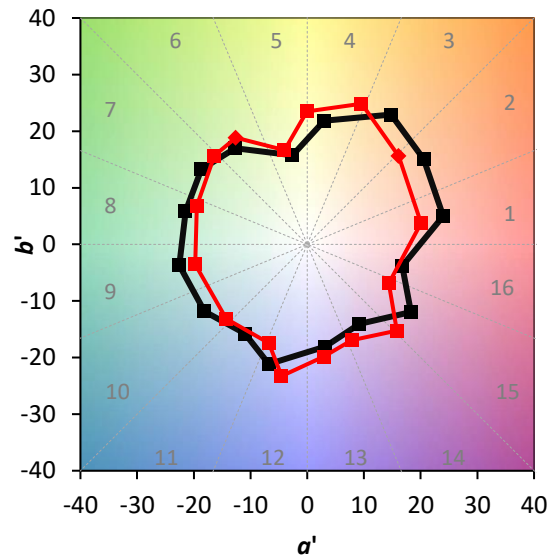
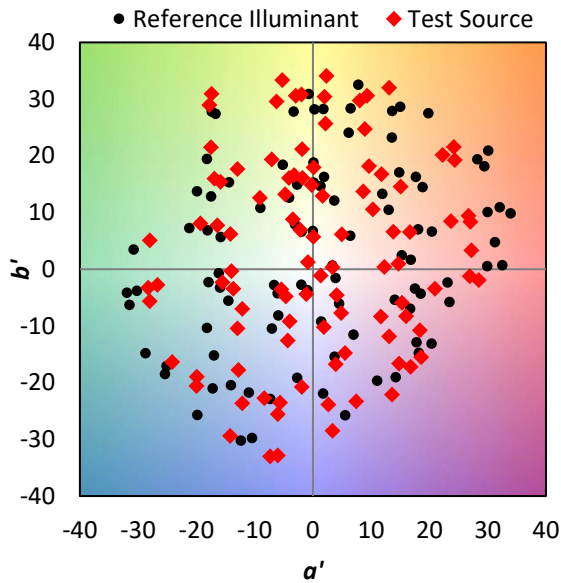
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Summary

$R_f = 75.2$
 $R_g = 93.8$
 CIE $R_a = 71.9$
 $R_9 = -33.7$



Color Vector Graphics

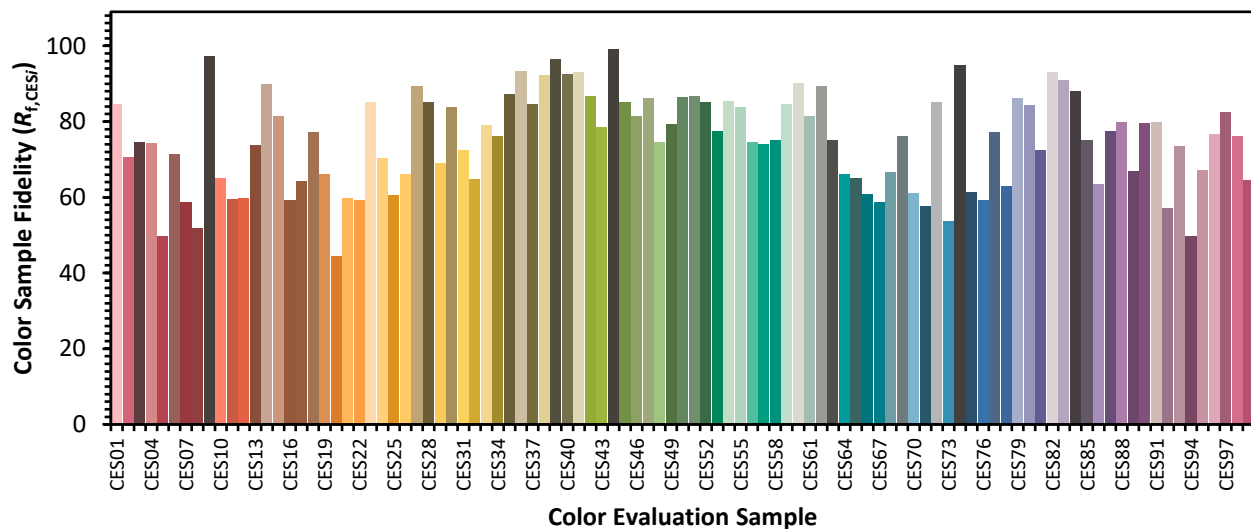


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Individual Sample Fidelity Index ($R_{f,i}$)

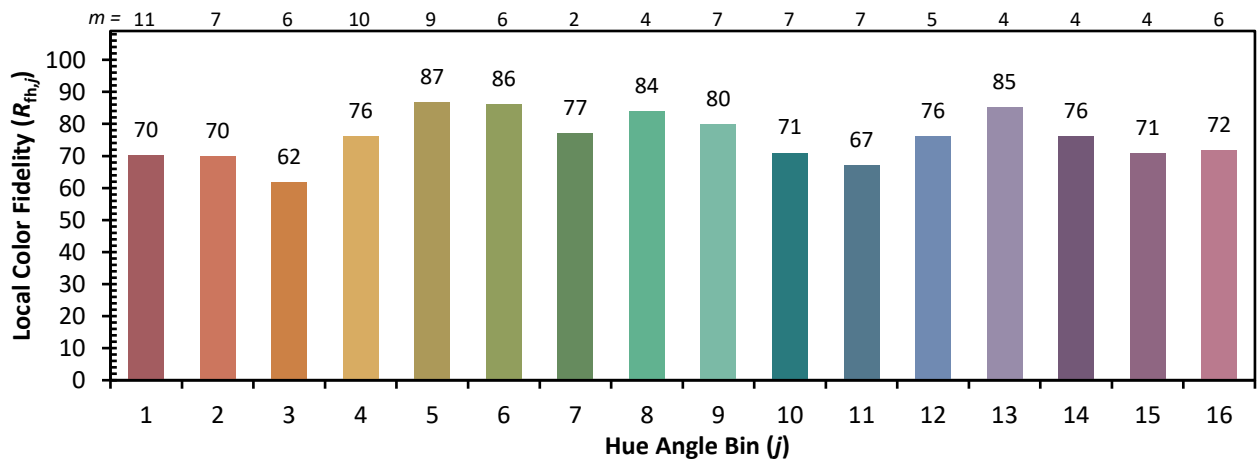
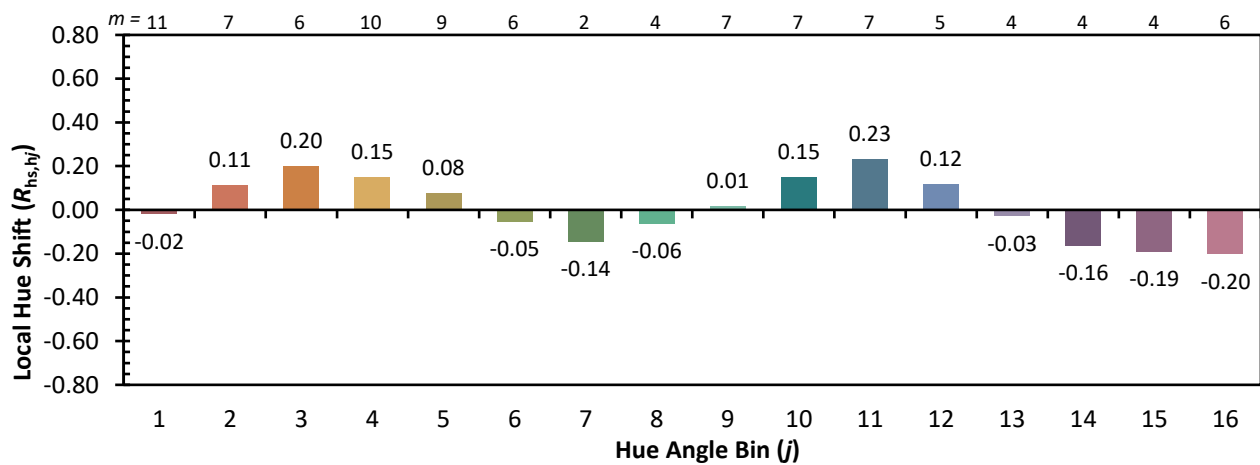
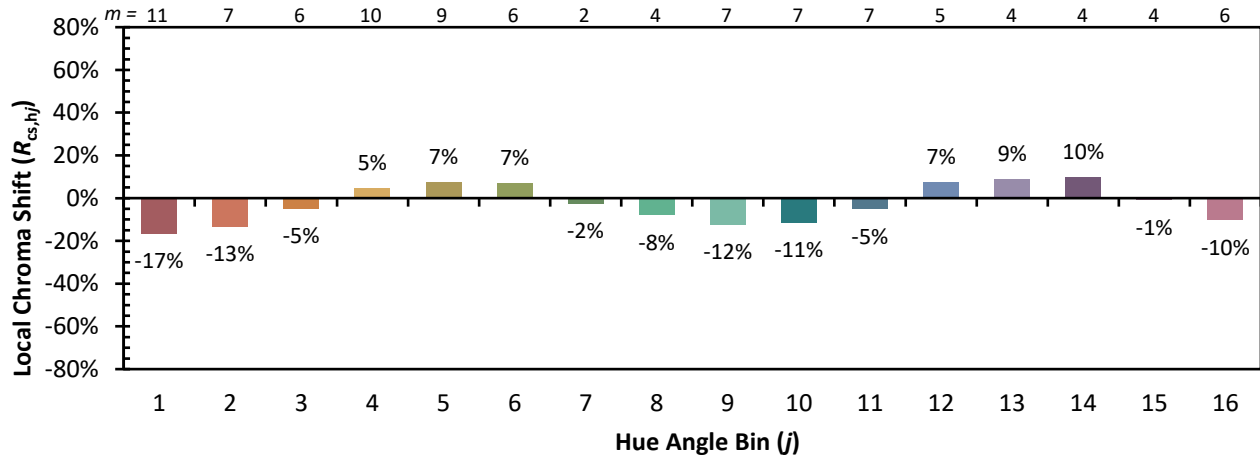
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CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



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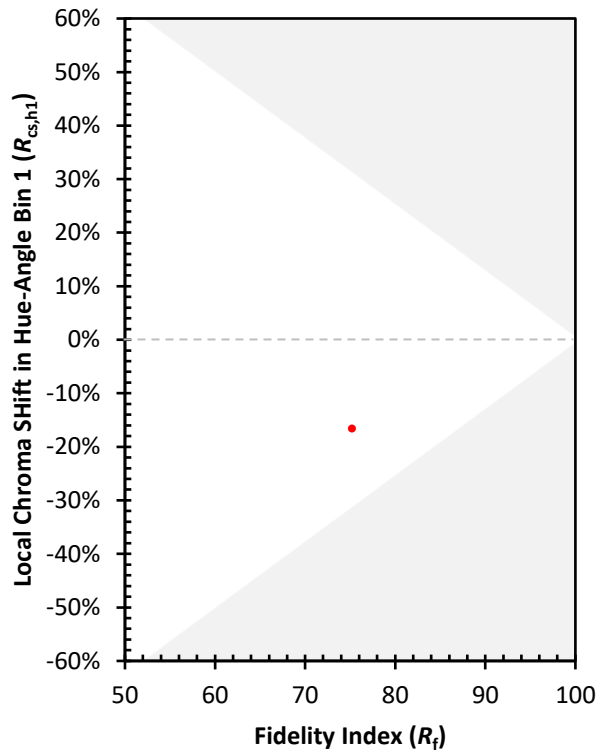
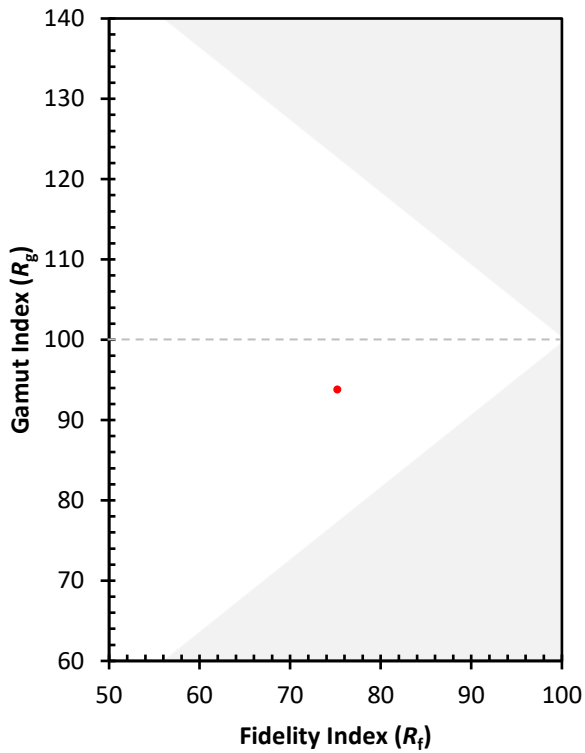
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)