

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: P856391

Luminaire Tested: **FFX-CLB-80-730-U-VM9**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856391
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-VM9
Description: FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

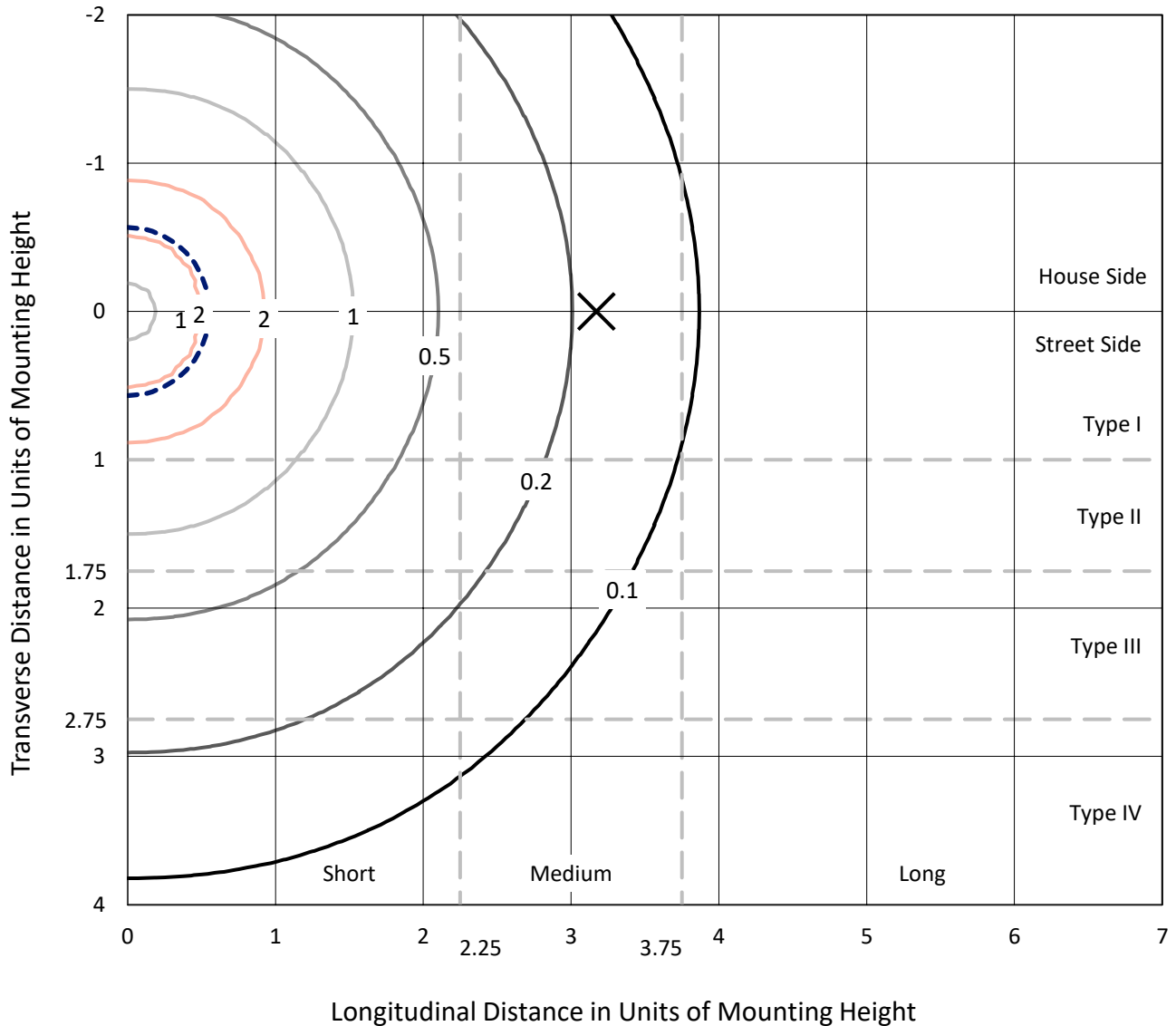
Lumens per Lamp: N/A
Luminaire Lumens: 12679.1 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B3 - U5 - G4

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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Iso-Footcandle Lines of Horizontal Illumination

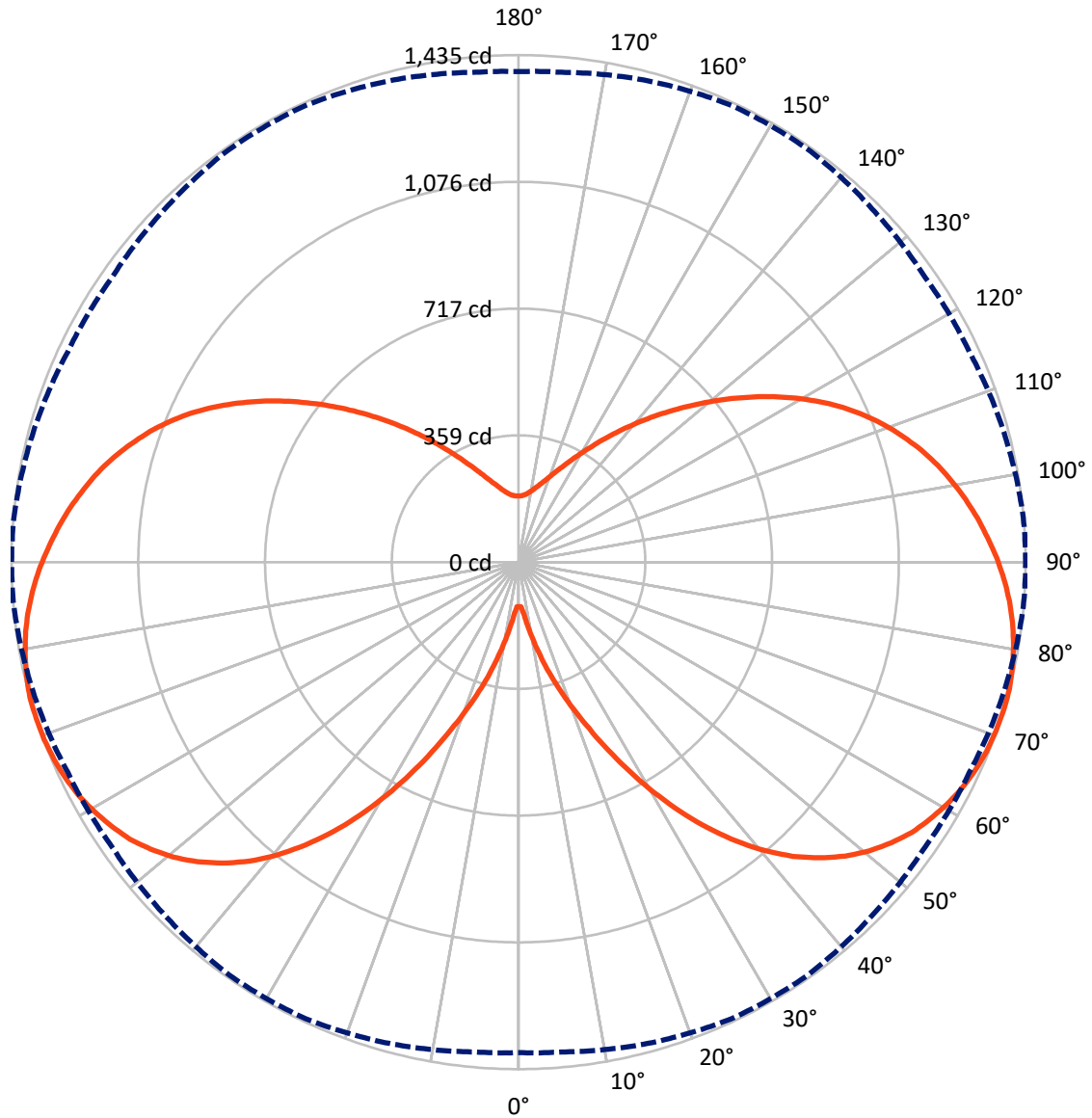
× Max cd
 - - - 1/2 Max cd



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 72.5-Deg Vertical

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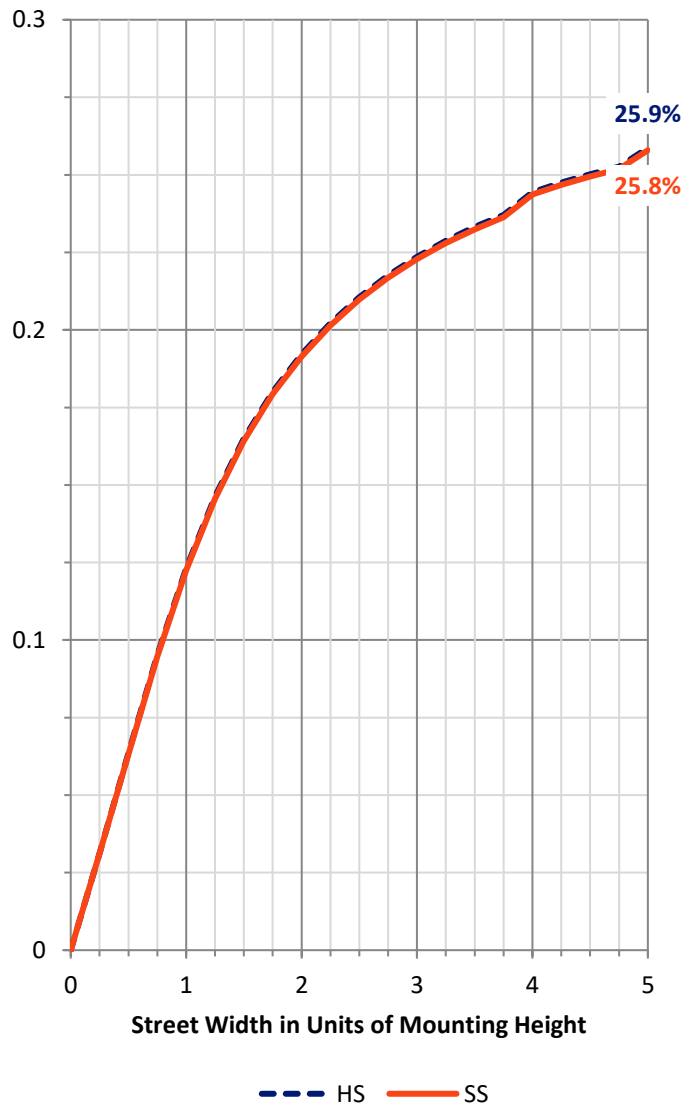
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3713.6	2626.0	6339.5
	% Fixture	29.3	20.7	50.0
Street Side	Lumens	3713.6	2626.0	6339.5
	% Fixture	29.3	20.7	50.0
Total	Lumens	7427.1	5251.9	12679.1
	% Fixture	58.6	41.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	0.1
10°-20°	95.1	0.8
20°-30°	274.8	2.2
30°-40°	571.7	4.5
40°-50°	907.2	7.2
50°-60°	1190.9	9.4
60°-70°	1388.7	11.0
70°-80°	1491.6	11.8
80°-90°	1490.9	11.8
90°-100°	1395.5	11.0
100°-110°	1224.5	9.7
110°-120°	984.7	7.8
120°-130°	707.3	5.6
130°-140°	454.6	3.6
140°-150°	263.7	2.1
150°-160°	138.5	1.1
160°-170°	64.5	0.5
170°-180°	18.6	0.1
0°-90°	7427.1	58.6
0°-180°	12679.1	100.0

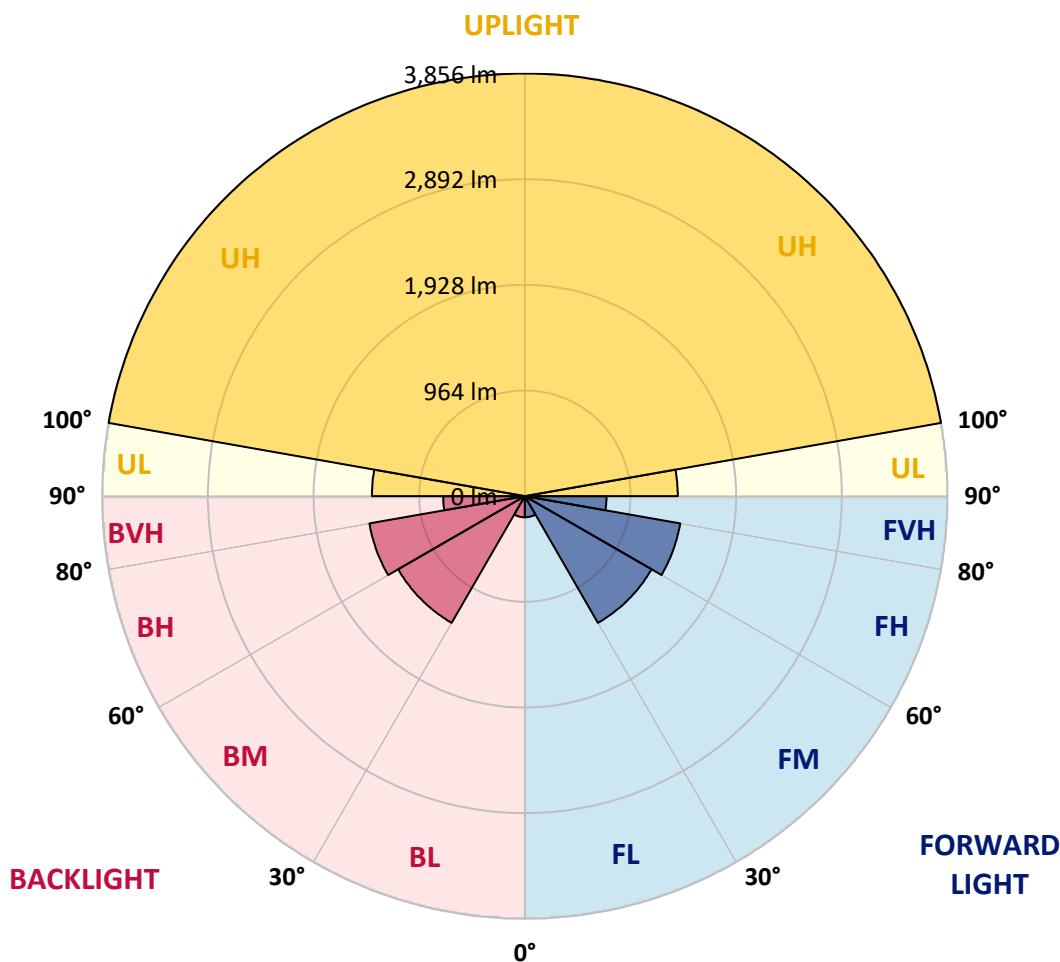


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.1	1.5			
FM (30°-60°)	1334.9	10.5			
FH (60°-80°)	1440.1	11.4			G1/1800
FVH (80°-90°)	745.4	5.9			G4/750
BL (0°-30°)	193.1	1.5	B1/500		
BM (30°-60°)	1334.9	10.5	B2/2500		
BH (60°-80°)	1440.1	11.4	B3/2500		G1/1800
BVH (80°-90°)	745.4	5.9			G4/750
UL (90°-100°)	1395.5	11.0		U5	
UH (100°-180°)	3856.4	30.4		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°	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7
2.5°	130.6	130.6	129.8	129.8	128.9	128.1	128.1	127.3	126.5	126.5	126.5
5°	145.3	144.5	144.5	144.5	144.5	143.6	144.5	143.6	143.6	143.6	144.5
7.5°	177.1	176.3	176.3	176.3	177.1	177.1	177.9	178.7	179.5	179.5	179.5
10°	218.7	217.9	217.9	217.1	218.7	218.7	219.5	217.9	220.4	220.4	221.2
12.5°	267.7	266.9	266.9	266.1	267.7	266.9	268.5	266.9	271.0	269.3	269.3
15°	320.7	320.7	319.9	319.1	321.6	321.6	323.2	323.2	325.6	324.0	324.8
17.5°	377.1	376.2	376.2	375.4	377.9	377.9	377.9	379.5	382.8	379.5	381.9
20°	437.4	436.6	436.6	435.8	438.3	438.3	439.9	440.7	444.0	441.5	443.2
22.5°	502.7	501.9	501.9	501.9	505.2	506.0	506.0	508.4	512.5	508.4	511.7
25°	575.4	574.6	574.6	577.0	579.5	580.3	581.9	585.2	589.2	585.2	589.2
27.5°	652.9	652.1	653.7	657.0	659.4	661.1	663.5	664.3	670.0	666.0	671.7
30°	732.9	732.1	733.7	737.8	741.0	745.9	745.9	748.4	756.6	750.8	756.6
32.5°	812.1	811.2	813.7	818.6	823.5	828.4	829.2	832.5	840.6	836.5	842.2
35°	890.4	889.6	892.8	899.4	904.3	909.2	910.8	914.1	923.0	919.0	924.7
37.5°	964.7	964.7	967.9	975.3	981.0	987.5	986.7	990.8	998.9	996.5	1002.2
40°	1034.0	1034.0	1038.1	1047.1	1053.6	1057.7	1056.9	1061.0	1069.9	1069.1	1074.0
42.5°	1096.9	1096.9	1102.6	1111.6	1118.1	1120.5	1120.5	1124.6	1134.4	1133.6	1138.5
45°	1149.9	1152.4	1158.9	1168.7	1174.4	1176.9	1175.2	1179.3	1189.9	1189.9	1194.0
47.5°	1198.9	1202.2	1208.7	1218.5	1222.6	1225.0	1223.4	1226.6	1237.3	1238.9	1243.0
50°	1241.3	1243.8	1251.9	1262.6	1266.6	1266.6	1264.2	1267.5	1278.9	1282.1	1285.4
52.5°	1278.1	1280.5	1289.5	1300.9	1303.4	1302.5	1299.3	1302.5	1314.0	1317.2	1319.7
55°	1307.4	1309.9	1320.5	1331.9	1334.4	1331.9	1327.0	1331.1	1341.7	1346.6	1350.7
57.5°	1331.1	1333.6	1345.8	1357.2	1359.7	1354.8	1349.1	1353.1	1365.4	1371.1	1372.7
60°	1350.7	1353.1	1366.2	1378.4	1380.1	1374.4	1367.8	1371.9	1384.2	1390.7	1392.3
62.5°	1366.2	1368.7	1382.5	1396.4	1397.2	1389.9	1382.5	1386.6	1398.8	1406.2	1408.6
65°	1376.8	1379.3	1394.8	1408.6	1410.3	1401.3	1394.0	1398.0	1409.5	1418.4	1420.1
67.5°	1384.2	1386.6	1403.7	1418.4	1419.3	1409.5	1401.3	1404.6	1417.6	1426.6	1428.2
70°	1387.4	1389.9	1407.8	1423.3	1424.1	1413.5	1403.7	1407.8	1420.9	1431.5	1433.1
72.5°	1388.2	1391.5	1410.3	1425.8	1426.6	1414.4	1404.6	1407.8	1421.7	1433.9	1434.8
75°	1385.0	1389.1	1408.6	1425.0	1425.0	1411.1	1400.5	1403.7	1419.3	1432.3	1434.8
77.5°	1380.9	1383.3	1403.7	1420.1	1419.3	1404.6	1392.3	1397.2	1412.7	1427.4	1429.0
80°	1371.9	1375.2	1395.6	1411.1	1409.5	1393.1	1381.7	1386.6	1402.9	1418.4	1420.1
82.5°	1360.5	1363.8	1384.2	1398.0	1396.4	1379.3	1367.8	1373.5	1390.7	1407.0	1408.6
85°	1346.6	1349.9	1369.5	1382.5	1380.1	1362.9	1351.5	1356.4	1375.2	1391.5	1393.1
87.5°	1328.7	1331.9	1351.5	1362.9	1360.5	1342.5	1332.7	1339.3	1356.4	1373.5	1374.4
90°	1308.3	1312.3	1329.5	1340.1	1336.8	1320.5	1311.5	1318.1	1335.2	1351.5	1353.1
92.5°	1287.9	1289.5	1305.8	1314.8	1312.3	1297.6	1289.5	1296.8	1312.3	1328.7	1328.7
95°	1263.4	1265.8	1280.5	1287.9	1285.4	1273.2	1265.8	1274.0	1287.9	1303.4	1304.2
97.5°	1237.3	1239.7	1251.9	1259.3	1256.8	1246.2	1241.3	1249.5	1261.7	1276.4	1277.2
100°	1209.5	1211.1	1221.7	1228.3	1225.8	1217.7	1214.4	1222.6	1234.0	1247.9	1247.9
102.5°	1178.5	1180.1	1188.3	1192.4	1191.6	1185.0	1185.0	1194.0	1203.0	1216.0	1217.7
105°	1145.8	1147.5	1153.2	1155.6	1154.8	1152.4	1154.0	1163.0	1170.3	1181.8	1183.4
107.5°	1109.1	1110.8	1114.0	1114.8	1114.8	1114.8	1120.5	1128.7	1136.9	1145.0	1145.8
110°	1069.9	1070.8	1073.2	1072.4	1072.4	1074.0	1082.2	1091.2	1097.7	1105.9	1106.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1027.5	1028.3	1030.0	1026.7	1027.5	1030.8	1041.4	1051.2	1055.3	1063.4	1063.4
115°	982.6	981.8	983.4	979.4	978.5	984.3	995.7	1007.1	1010.4	1016.1	1016.9
117.5°	933.7	934.5	933.7	928.8	927.9	936.1	946.7	957.3	961.4	967.9	966.3
120°	883.1	882.2	883.1	877.3	876.5	885.5	896.1	906.7	909.2	914.9	913.3
122.5°	831.6	830.8	830.0	824.3	824.3	831.6	844.7	855.3	853.7	860.2	859.4
125°	778.6	778.6	777.0	771.2	771.2	780.2	790.8	800.6	799.0	806.3	803.9
127.5°	726.4	726.4	724.7	719.8	719.8	728.0	737.8	747.6	745.1	751.7	749.2
130°	674.9	674.9	673.3	668.4	668.4	674.9	685.6	693.7	690.4	696.2	695.3
132.5°	626.0	625.2	624.3	619.4	620.3	626.8	634.9	642.3	639.0	645.6	643.1
135°	578.6	577.8	577.0	572.1	572.9	579.5	586.8	592.5	590.1	594.1	593.3
137.5°	533.7	532.9	532.1	528.0	528.9	533.7	541.1	546.0	542.7	548.4	546.0
140°	491.3	490.5	488.9	486.4	487.2	492.1	496.2	501.9	498.7	503.6	501.1
142.5°	450.5	450.5	448.9	446.4	447.2	452.1	455.4	459.5	456.2	460.3	458.7
145°	413.0	413.0	411.3	409.7	409.7	413.8	416.2	420.3	417.0	421.1	419.5
147.5°	378.7	378.7	377.1	375.4	375.4	379.5	381.1	384.4	381.1	384.4	382.8
150°	346.9	346.9	346.0	344.4	345.2	346.9	348.5	350.9	348.5	350.9	350.1
152.5°	319.1	319.1	318.3	317.5	316.7	319.1	319.9	322.4	319.9	322.4	320.7
155°	294.6	293.8	293.8	292.2	292.2	293.8	294.6	296.3	293.8	296.3	295.4
157.5°	272.6	272.6	271.8	271.0	271.0	271.8	272.6	273.4	271.8	274.2	272.6
160°	253.8	253.8	253.0	252.2	252.2	253.0	253.0	253.8	252.2	253.8	253.0
162.5°	237.5	237.5	236.7	236.7	235.9	236.7	237.5	237.5	236.7	237.5	236.7
165°	224.4	224.4	223.6	222.8	222.8	223.6	223.6	224.4	222.8	223.6	223.6
167.5°	212.2	212.2	212.2	211.4	210.6	211.4	211.4	211.4	210.6	211.4	211.4
170°	203.2	203.2	203.2	202.4	201.6	202.4	202.4	202.4	201.6	202.4	202.4
172.5°	195.9	195.9	195.9	195.1	195.1	195.1	195.1	195.1	195.1	195.1	195.1
175°	191.0	191.0	191.0	191.0	190.2	191.0	191.0	191.0	191.0	191.0	190.2
177.5°	188.5	187.7	187.7	187.7	187.7	187.7	187.7	187.7	187.7	187.7	187.7
180°	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9

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: SP1-2406-133-4

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

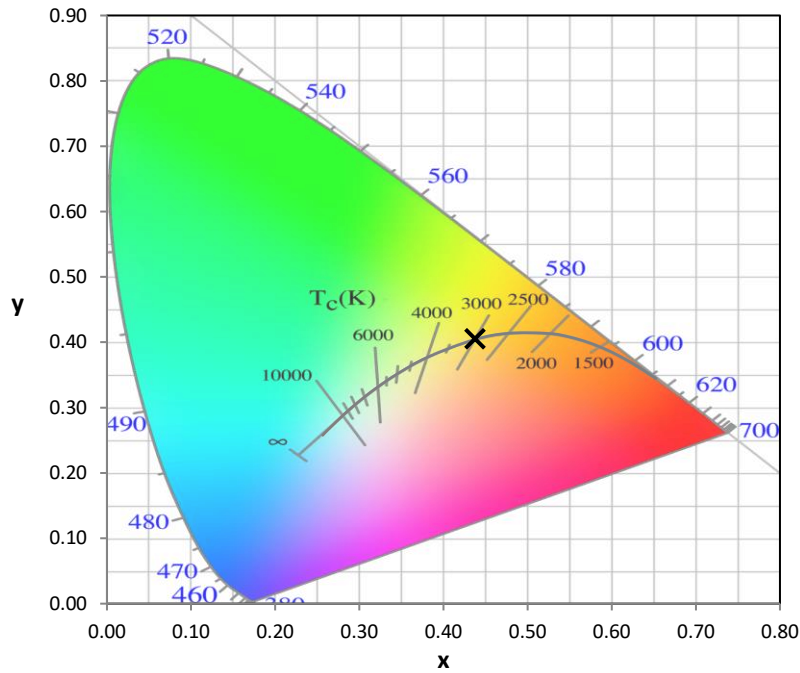
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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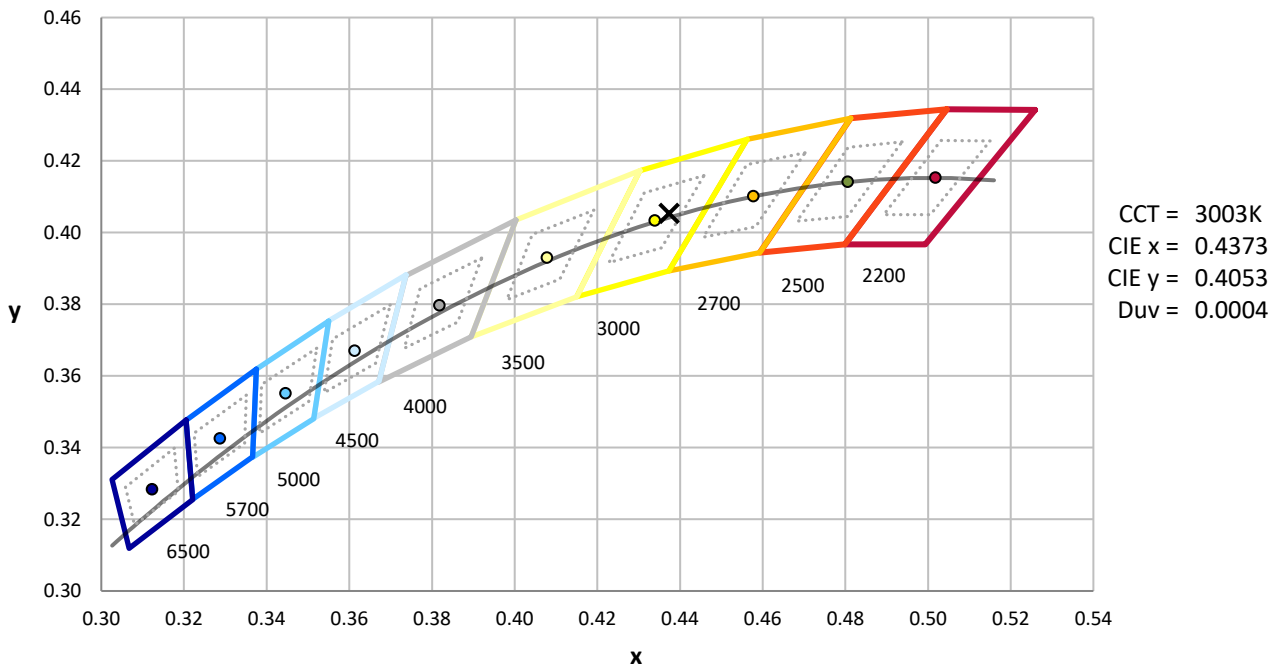
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

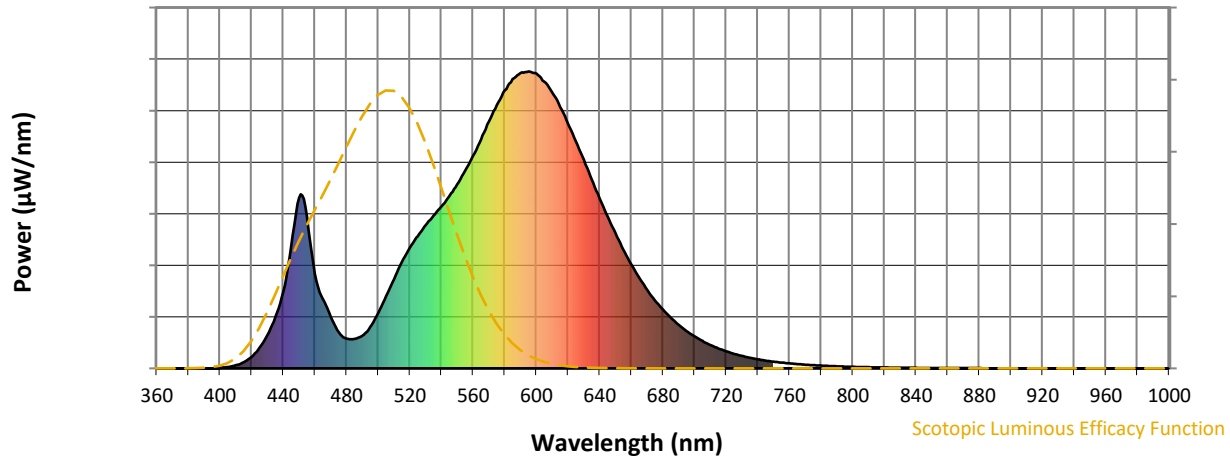


Photopic Lumens: NR

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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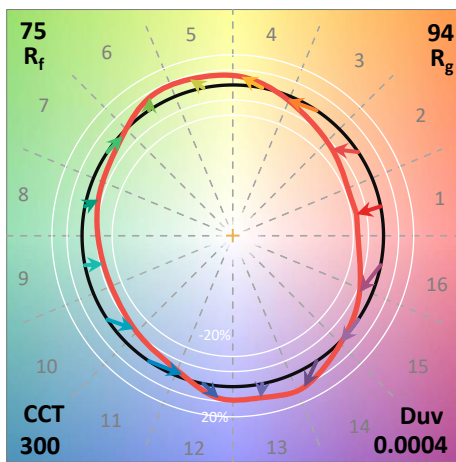
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Summary

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



Color Vector Graphics



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

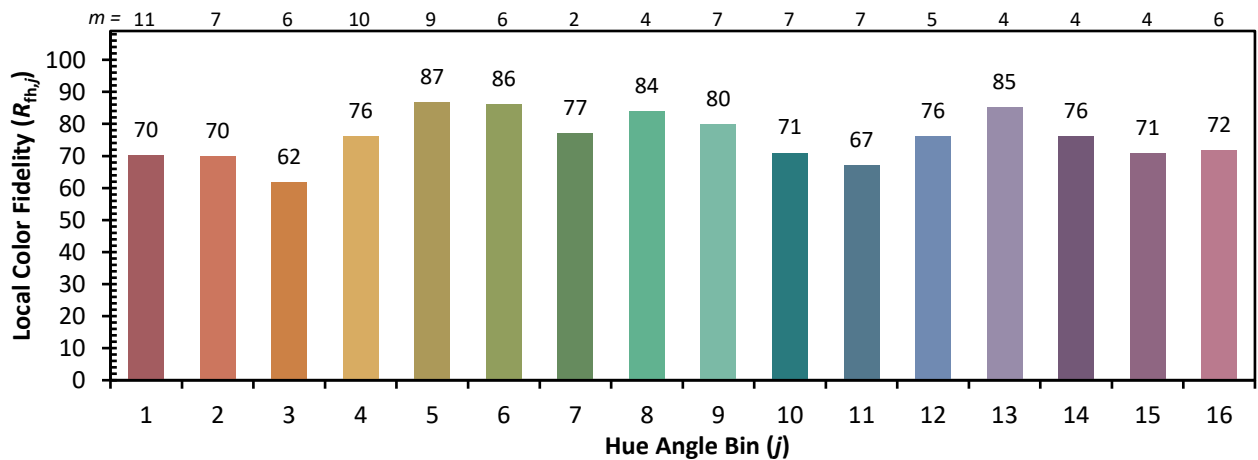
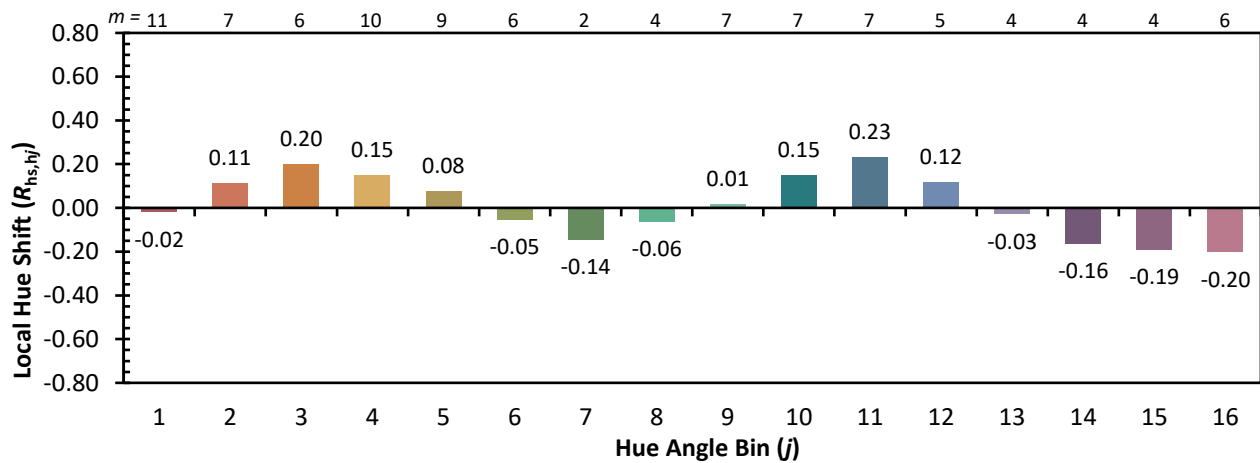
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CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 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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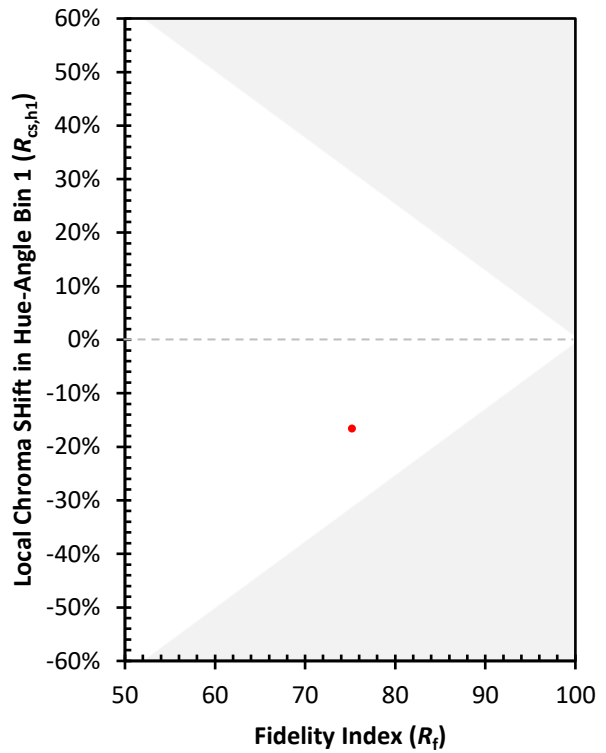
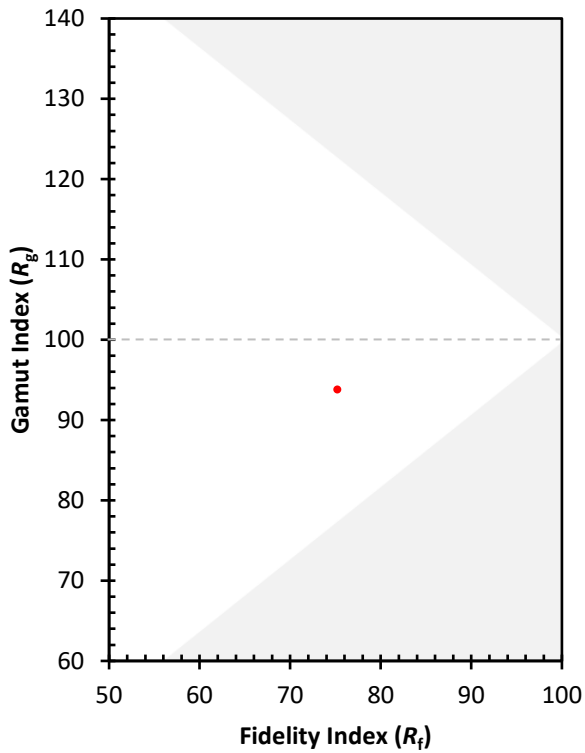
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)