

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: P856178

Luminaire Tested: **FFX-CLB-50-740-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856178
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-740-U-FR-T5-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

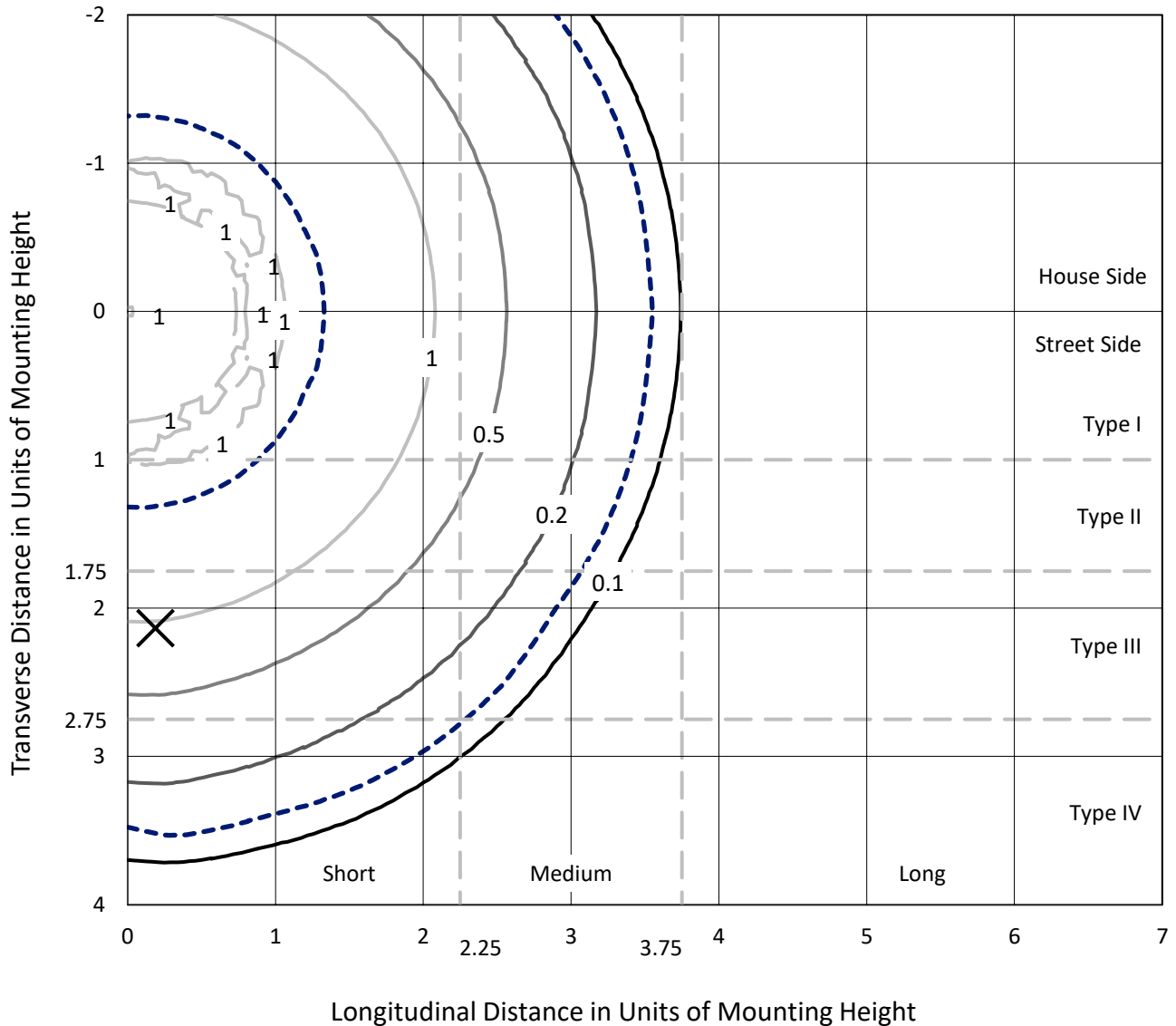
Lumens per Lamp: N/A
Luminaire Lumens: 8213.5 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G3

Input Watts (W): 50.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.0%%
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

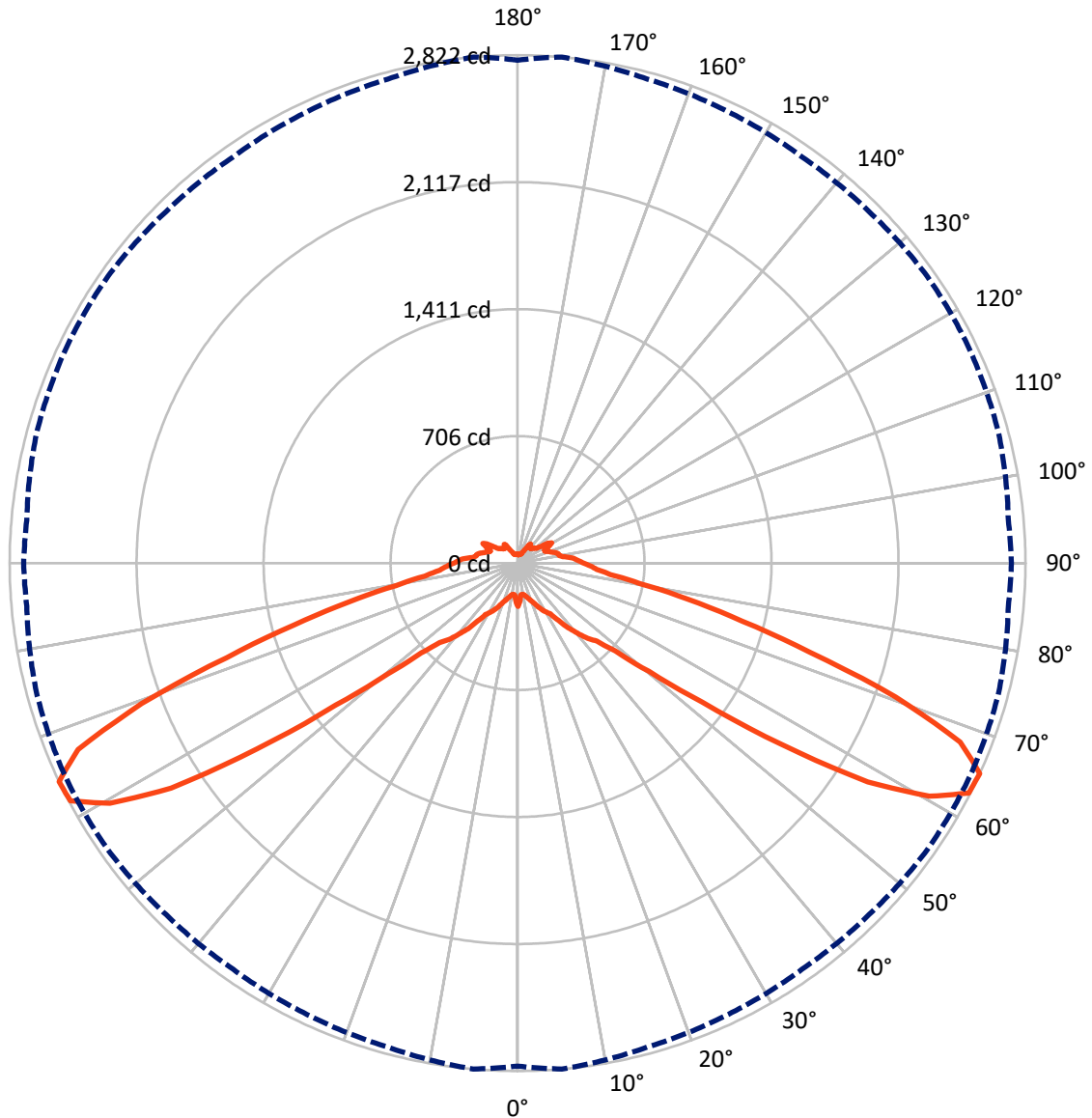
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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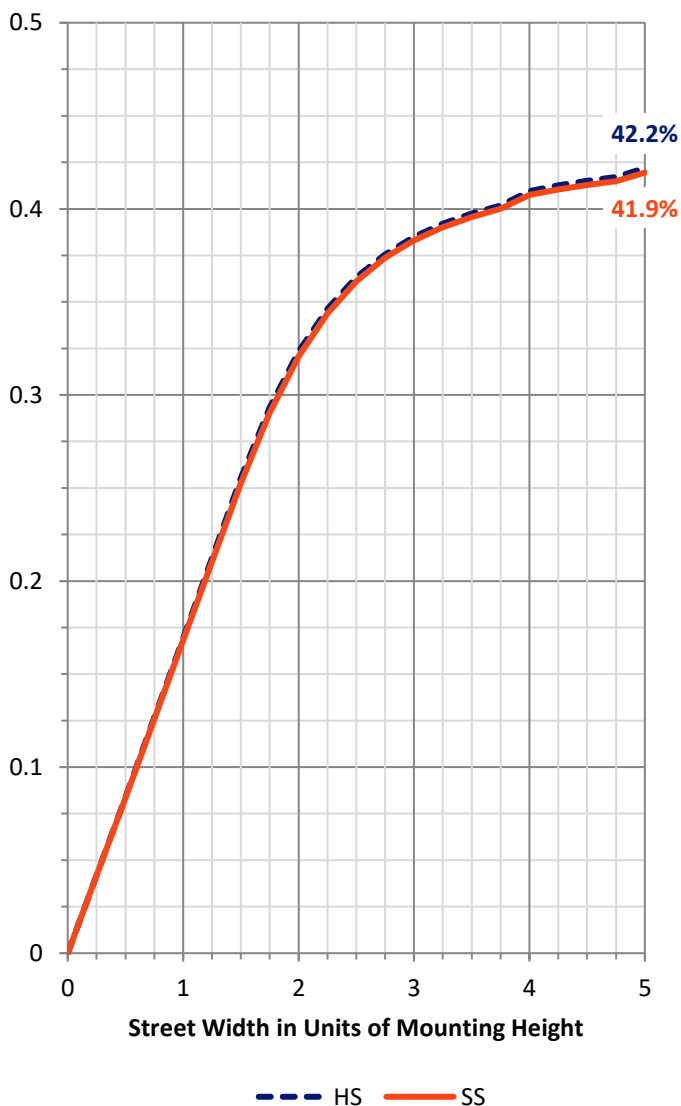
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3587.8	519.0	4106.8
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	3587.8	519.0	4106.8
	% Fixture	43.7	6.3	50.0
Total	Lumens	7175.6	1037.9	8213.5
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	0.2
10°-20°	57.7	0.7
20°-30°	125.0	1.5
30°-40°	253.2	3.1
40°-50°	510.5	6.2
50°-60°	1623.1	19.8
60°-70°	2617.6	31.9
70°-80°	1427.4	17.4
80°-90°	543.5	6.6
90°-100°	326.2	4.0
100°-110°	208.0	2.5
110°-120°	158.2	1.9
120°-130°	133.9	1.6
130°-140°	87.2	1.1
140°-150°	73.1	0.9
150°-160°	32.8	0.4
160°-170°	13.9	0.2
170°-180°	4.6	0.1
0°-90°	7175.6	87.4
0°-180°	8213.5	100.0



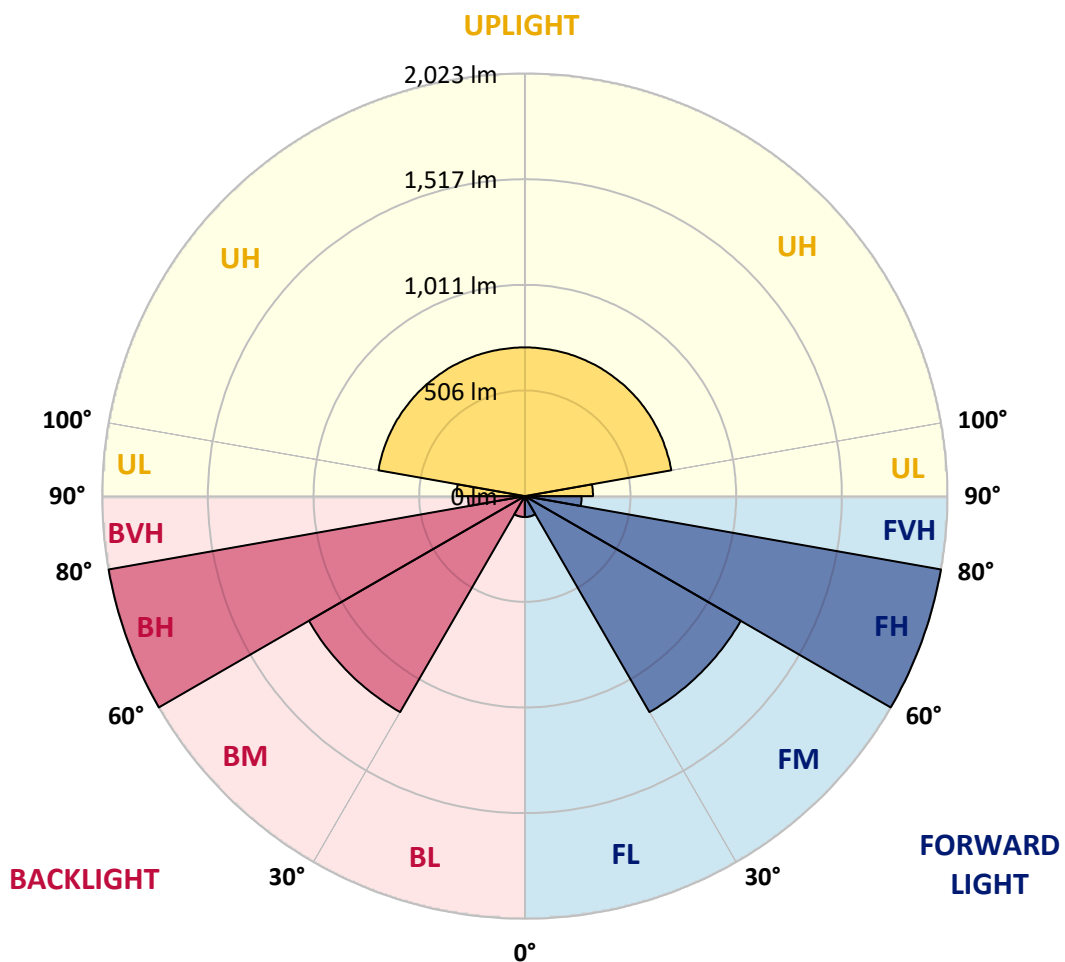
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	100.1	1.2			
FM (30°-60°)	1193.4	14.5			
FH (60°-80°)	2022.5	24.6			G2/5000
FVH (80°-90°)	271.8	3.3			G3/500
BL (0°-30°)	100.1	1.2	B0/110		
BM (30°-60°)	1193.4	14.5	B2/2500		
BH (60°-80°)	2022.5	24.6	B3/2500		G2/5000
BVH (80°-90°)	271.8	3.3			G3/500
UL (90°-100°)	326.2	4.0		U3/500	
UH (100°-180°)	711.8	8.7		U4/1000	

BUG Rating: B3-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	241.0	241.0	241.0	241.0	241.0	241.0	241.0	241.0	241.0	241.0	241.0
2.5°	215.3	218.7	209.3	201.6	198.1	199.0	206.7	214.4	206.7	209.3	209.3
5°	178.4	179.3	179.3	177.6	180.1	175.0	169.0	169.0	175.0	181.8	181.8
7.5°	172.4	175.0	181.8	181.8	184.4	175.8	167.3	168.1	176.7	187.0	189.6
10°	177.6	177.6	175.8	177.6	183.6	182.7	173.3	169.0	175.0	185.3	188.7
12.5°	185.3	185.3	190.4	198.1	199.0	191.3	181.8	181.0	187.9	194.7	194.7
15°	196.4	197.3	199.9	199.0	201.6	199.0	196.4	198.1	202.4	202.4	202.4
17.5°	211.0	211.0	211.0	211.0	211.0	211.9	212.7	212.7	212.7	214.4	214.4
20°	227.3	227.3	226.5	225.6	225.6	226.5	227.3	227.3	227.3	229.0	229.0
22.5°	247.9	247.0	245.3	245.3	245.3	246.2	244.5	243.6	242.7	243.6	243.6
25°	271.9	271.9	270.2	267.6	267.6	266.8	264.2	263.3	262.5	264.2	263.3
27.5°	295.9	295.9	293.4	289.9	289.9	289.9	288.2	286.5	284.8	285.6	285.6
30°	318.2	316.5	315.7	313.1	312.2	313.1	311.4	311.4	307.9	307.1	308.8
32.5°	338.8	337.1	338.8	336.2	333.7	336.2	335.4	335.4	330.2	328.5	330.2
35°	395.4	391.1	394.6	388.6	385.1	386.0	387.7	391.1	386.0	383.4	384.3
37.5°	456.3	455.5	466.6	476.1	474.3	459.8	450.3	452.0	458.9	468.3	468.3
40°	512.9	511.2	513.8	510.4	510.4	508.7	507.8	512.1	498.4	494.9	492.4
42.5°	572.1	571.3	556.7	536.1	531.8	549.0	556.7	562.7	543.0	536.1	531.0
45°	630.5	618.5	615.9	609.0	602.2	613.3	612.4	616.7	607.3	606.4	602.2
47.5°	753.1	730.8	723.1	724.0	709.4	721.4	726.5	740.3	720.5	721.4	720.5
50°	974.4	946.1	959.0	950.4	935.0	949.6	948.7	973.6	941.0	953.0	947.8
52.5°	1320.1	1281.5	1289.2	1284.1	1268.6	1298.7	1305.5	1342.4	1279.8	1295.2	1290.9
55°	1820.2	1778.2	1795.3	1733.6	1717.3	1776.4	1798.7	1841.6	1758.4	1767.0	1762.7
57.5°	2297.1	2294.5	2323.7	2280.0	2265.4	2307.4	2286.8	2324.6	2280.0	2311.7	2301.4
60°	2622.2	2629.1	2658.2	2671.1	2645.4	2667.7	2617.9	2646.2	2632.5	2678.8	2674.5
62.5°	2791.2	2813.5	2796.3	2797.2	2768.9	2786.0	2776.6	2792.9	2789.5	2793.8	2789.5
65°	2794.6	2822.1	2784.3	2767.2	2755.2	2762.0	2778.3	2778.3	2768.0	2737.1	2744.0
67.5°	2611.9	2653.1	2611.1	2587.0	2593.9	2591.3	2602.5	2587.9	2581.9	2536.4	2537.3
70°	2162.4	2228.5	2166.7	2144.4	2162.4	2173.6	2172.7	2160.7	2151.3	2094.7	2111.0
72.5°	1641.8	1700.1	1645.2	1636.6	1653.8	1670.9	1656.4	1670.9	1655.5	1629.8	1637.5
75°	1239.5	1289.2	1289.2	1321.8	1327.0	1317.5	1277.2	1293.5	1303.8	1304.7	1312.4
77.5°	911.8	964.1	991.6	1044.8	1042.2	1025.9	977.0	995.9	1015.6	1029.3	1038.8
80°	648.5	687.9	728.2	766.0	771.1	757.4	727.4	738.5	750.5	760.0	765.1
82.5°	502.7	520.7	512.9	508.7	515.5	535.2	542.1	549.0	531.8	520.7	525.0
85°	438.3	440.0	453.8	463.2	465.8	465.8	458.9	464.1	468.3	479.5	479.5
87.5°	399.7	401.4	435.7	445.2	448.6	444.3	435.7	439.2	442.6	449.5	449.5
90°	355.1	360.3	394.6	402.3	405.7	398.9	396.3	398.9	394.6	397.1	397.1
92.5°	330.2	330.2	346.5	343.1	342.3	343.1	344.0	346.5	342.3	340.5	340.5
95°	301.9	306.2	301.9	305.4	304.5	300.2	298.5	300.2	297.6	297.6	299.4
97.5°	253.0	253.9	246.2	248.8	248.8	245.3	241.0	242.7	240.2	241.9	242.7
100°	236.7	234.2	221.3	219.6	218.7	216.2	213.6	213.6	212.7	211.9	212.7
102.5°	231.6	231.6	214.4	211.0	209.3	205.0	201.6	201.6	201.6	201.6	202.4
105°	211.9	217.9	205.0	202.4	199.9	194.7	189.6	188.7	190.4	188.7	191.3
107.5°	192.1	197.3	190.4	190.4	187.9	182.7	179.3	178.4	179.3	177.6	179.3
110°	181.0	183.6	175.8	175.8	174.1	169.8	169.0	168.1	168.1	165.5	167.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	167.3	167.3	161.3	159.5	159.5	157.0	156.1	155.3	155.3	155.3	156.1
115°	166.4	165.5	156.1	150.1	149.3	148.4	149.3	148.4	148.4	147.5	147.5
117.5°	203.3	194.7	163.0	148.4	148.4	149.3	152.7	150.1	144.1	144.1	143.2
120°	219.6	221.3	187.9	172.4	169.0	164.7	163.8	162.1	156.1	155.3	158.7
122.5°	193.9	202.4	181.8	175.8	172.4	167.3	163.8	163.0	163.0	158.7	164.7
125°	151.0	158.7	148.4	147.5	146.7	147.5	145.8	145.8	147.5	145.0	145.8
127.5°	129.5	133.0	128.7	128.7	127.8	127.0	125.2	126.1	125.2	126.1	127.0
130°	124.4	127.0	122.7	120.9	120.9	121.8	121.8	121.8	119.2	117.5	118.4
132.5°	123.5	122.7	115.8	112.4	112.4	118.4	120.9	120.9	114.9	110.7	110.7
135°	111.5	112.4	111.5	107.2	108.1	109.8	112.4	113.2	107.2	104.6	105.5
137.5°	107.2	109.8	110.7	108.9	108.9	107.2	106.4	107.2	105.5	106.4	106.4
140°	107.2	108.1	110.7	112.4	110.7	108.9	108.9	108.9	109.8	112.4	114.1
142.5°	109.8	110.7	109.8	108.9	111.5	115.8	119.2	119.2	116.7	114.9	115.8
145°	126.1	128.7	128.7	126.1	127.8	126.1	126.1	124.4	124.4	124.4	125.2
147.5°	120.1	119.2	120.9	123.5	120.9	120.1	120.1	120.9	122.7	123.5	124.4
150°	94.4	91.8	93.5	98.6	97.8	97.8	97.8	98.6	99.5	99.5	100.4
152.5°	74.6	74.6	76.3	76.3	77.2	77.2	76.3	76.3	76.3	77.2	77.2
155°	66.9	66.0	67.8	70.3	68.6	68.6	68.6	68.6	68.6	68.6	69.5
157.5°	58.3	57.5	57.5	58.3	58.3	58.3	58.3	59.2	59.2	58.3	59.2
160°	53.2	53.2	52.3	52.3	52.3	53.2	54.0	54.0	53.2	52.3	52.3
162.5°	50.6	50.6	48.9	48.0	48.0	48.9	50.6	50.6	48.9	48.0	48.0
165°	50.6	49.8	47.2	45.5	45.5	47.2	49.8	49.8	47.2	45.5	45.5
167.5°	49.8	49.8	48.0	46.3	46.3	48.0	48.9	49.8	48.9	47.2	46.3
170°	48.0	48.0	48.9	48.9	48.0	48.0	48.0	48.0	48.9	48.9	48.9
172.5°	49.8	48.9	49.8	50.6	50.6	49.8	48.9	48.9	49.8	50.6	50.6
175°	50.6	50.6	49.8	49.8	49.8	48.9	48.9	48.9	49.8	50.6	49.8
177.5°	45.5	45.5	44.6	45.5	45.5	45.5	44.6	45.5	45.5	45.5	46.3
180°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-1

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-1
 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-100-740-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3901
 CIE u': 0.2273
 CIE v': 0.5026
 Duv: -0.0007
 CIE x: 0.3844
 CIE y: 0.3776
 CIE z: 0.2380
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 579
 Purity: 28.6799
 R_f: 76.2
 R_g: 94.4

CRI (Ra):	74.5		
R1:	71.8	R9:	-23.4
R2:	81.9	R10:	56.6
R3:	89.3	R11:	68.4
R4:	72.6	R12:	46.6
R5:	71.3	R13:	73.7
R6:	74.0	R14:	93.9
R7:	81.5	R15:	65.1
R8:	53.3		



Test Conditions

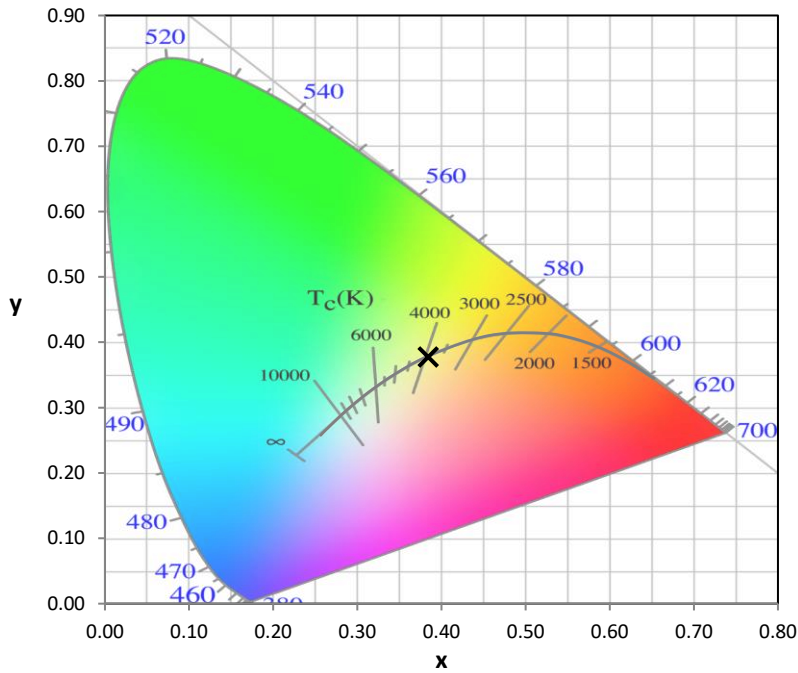
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

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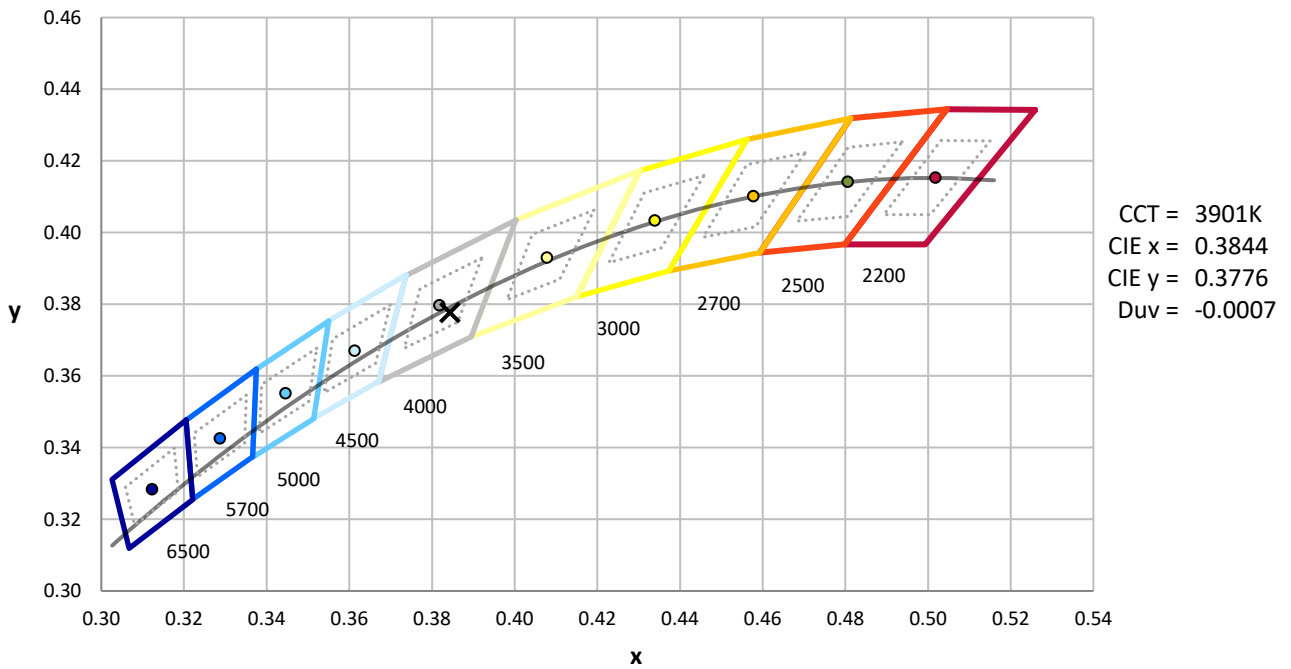
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 4000K 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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.53

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Summary

$R_f = 76.2$
 $R_g = 94.4$
 CIE $R_a = 74.5$
 $R_g = -23.4$



Color Vector Graphics



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

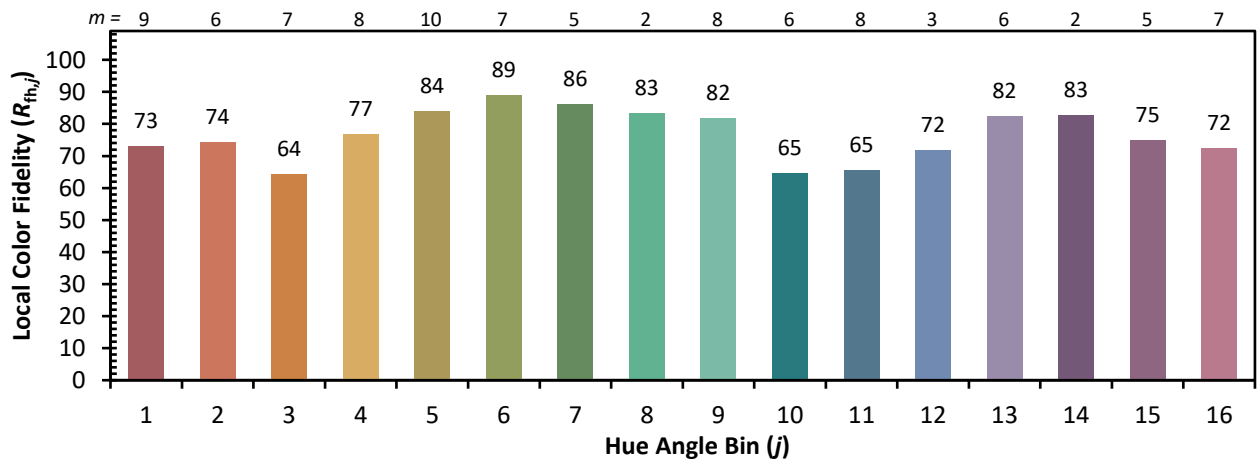
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 92
CES08 = 39	CES33 = 83	CES58 = 76	CES83 = 92
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 73
CES12 = 63	CES37 = 81	CES62 = 84	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 74	CES88 = 83
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 59	CES91 = 73
CES17 = 49	CES42 = 83	CES67 = 57	CES92 = 60
CES18 = 56	CES43 = 80	CES68 = 66	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 74	CES94 = 55
CES20 = 65	CES45 = 87	CES70 = 59	CES95 = 67
CES21 = 86	CES46 = 85	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 90	CES72 = 84	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 51	CES98 = 79
CES24 = 91	CES49 = 83	CES74 = 92	CES99 = 68
CES25 = 72	CES50 = 89	CES75 = 56	



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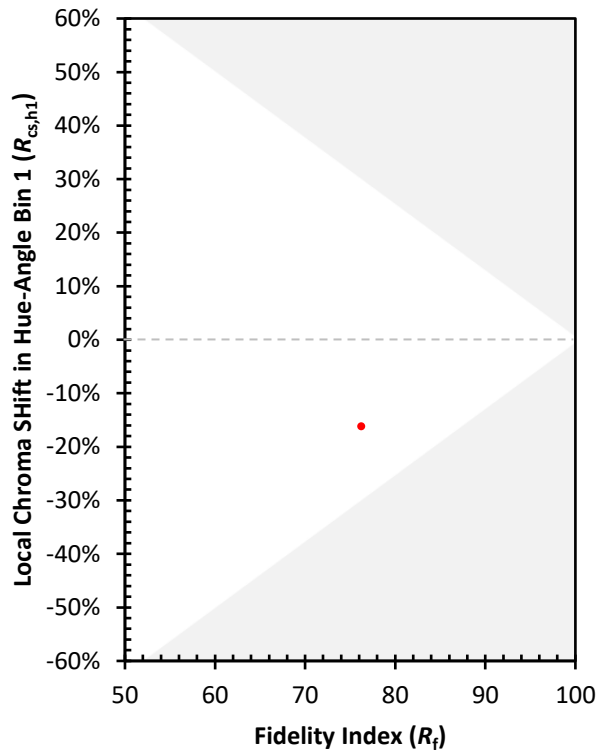
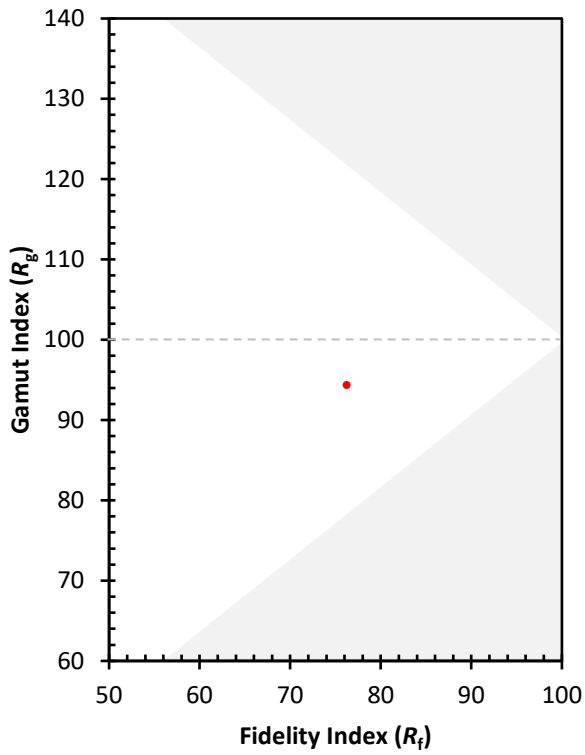
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)