

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: P856349

Luminaire Tested: **FFX-CLB-50-730-U-VM8**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856349
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-730-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

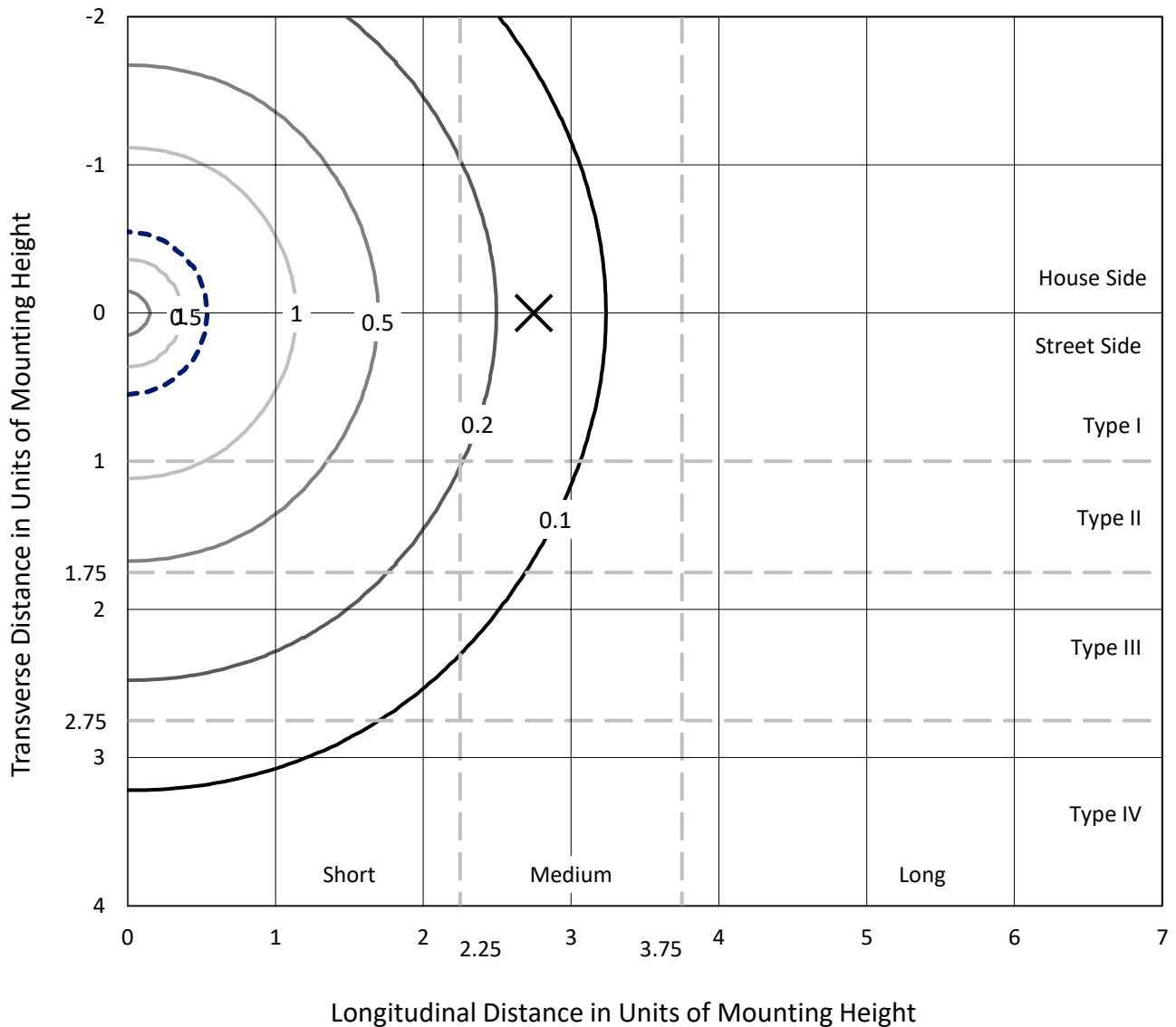
Lumens per Lamp: N/A
Luminaire Lumens: 8081.7 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type V - Short
BUG Rating: B2 - U5 - G3

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

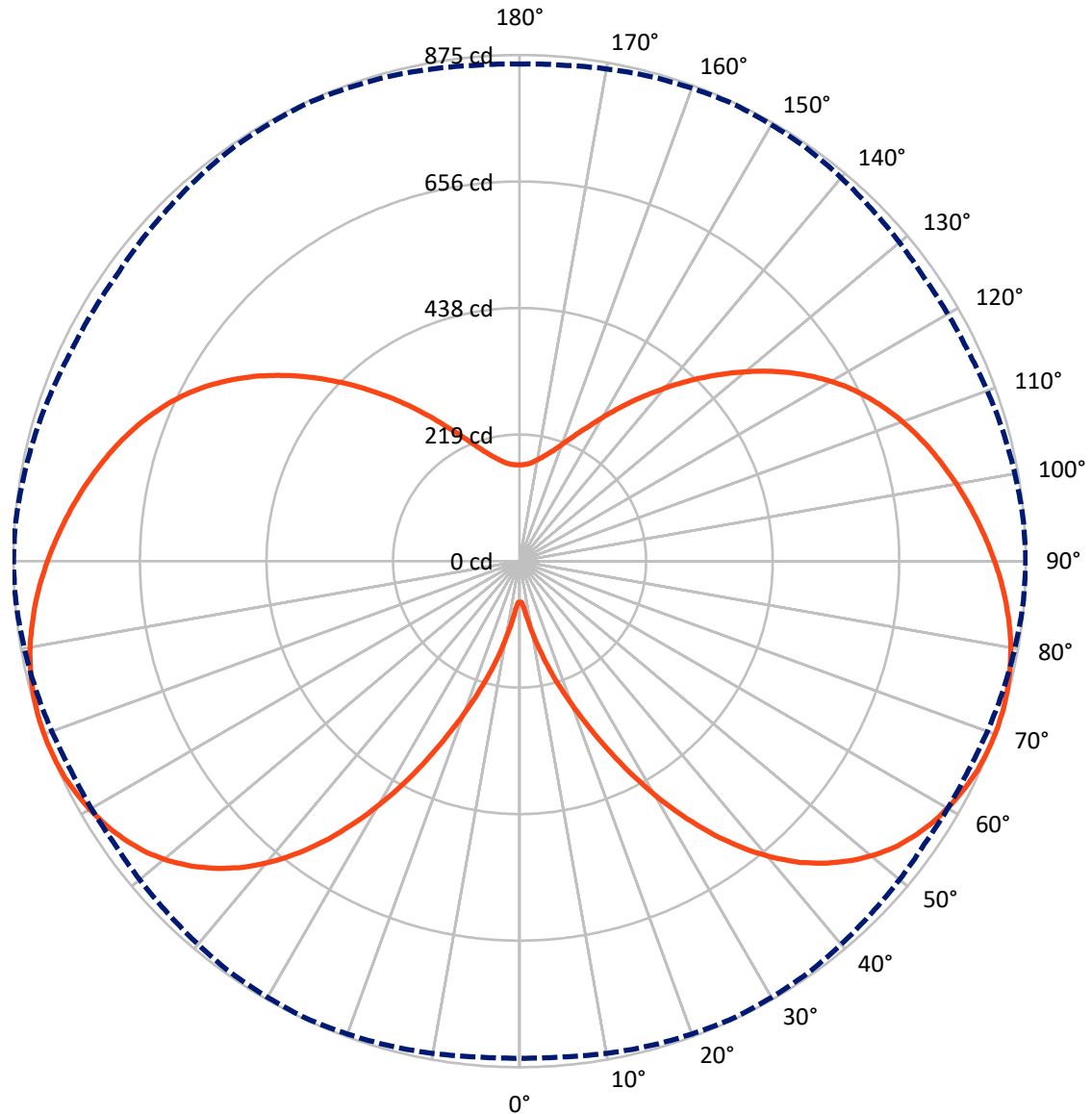
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 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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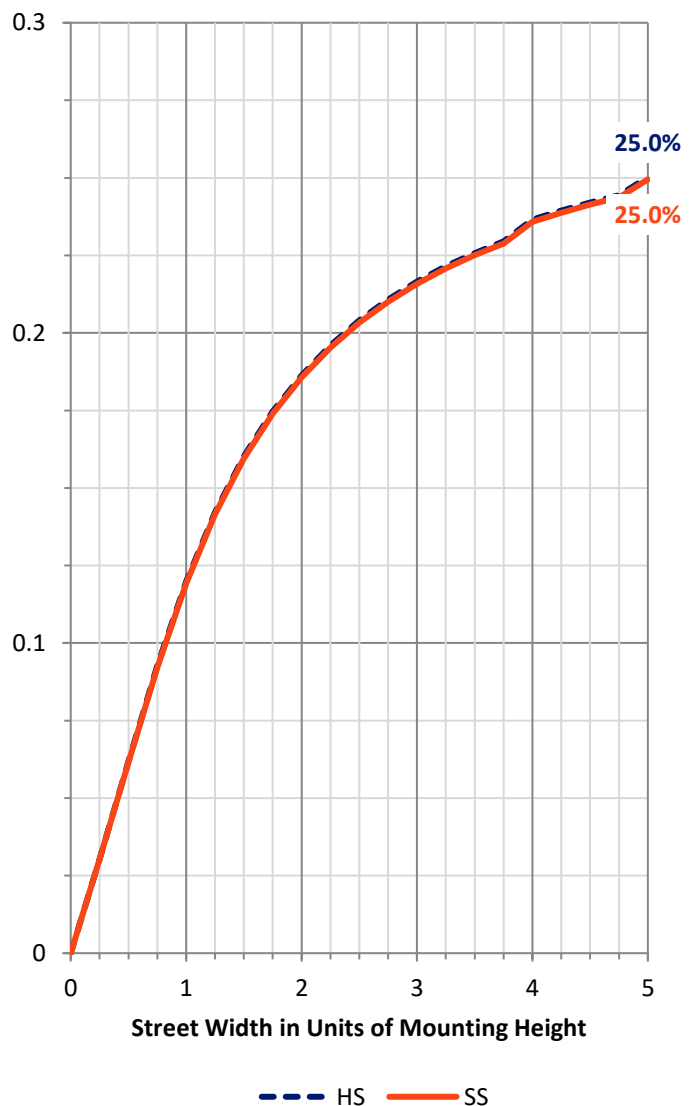
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.7	1752.2	4040.8
	% Fixture	28.3	21.7	50.0
Street Side	Lumens	2288.7	1752.2	4040.8
	% Fixture	28.3	21.7	50.0
Total	Lumens	4577.3	3504.3	8081.7
	% Fixture	56.6	43.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.1
10°-20°	57.9	0.7
20°-30°	172.6	2.1
30°-40°	361.0	4.5
40°-50°	566.5	7.0
50°-60°	735.3	9.1
60°-70°	851.2	10.5
70°-80°	911.3	11.3
80°-90°	912.0	11.3
90°-100°	860.1	10.6
100°-110°	769.6	9.5
110°-120°	647.1	8.0
120°-130°	496.3	6.1
130°-140°	339.6	4.2
140°-150°	207.2	2.6
150°-160°	113.3	1.4
160°-170°	54.9	0.7
170°-180°	16.3	0.2
0°-90°	4577.3	56.6
0°-180°	8081.7	100.0



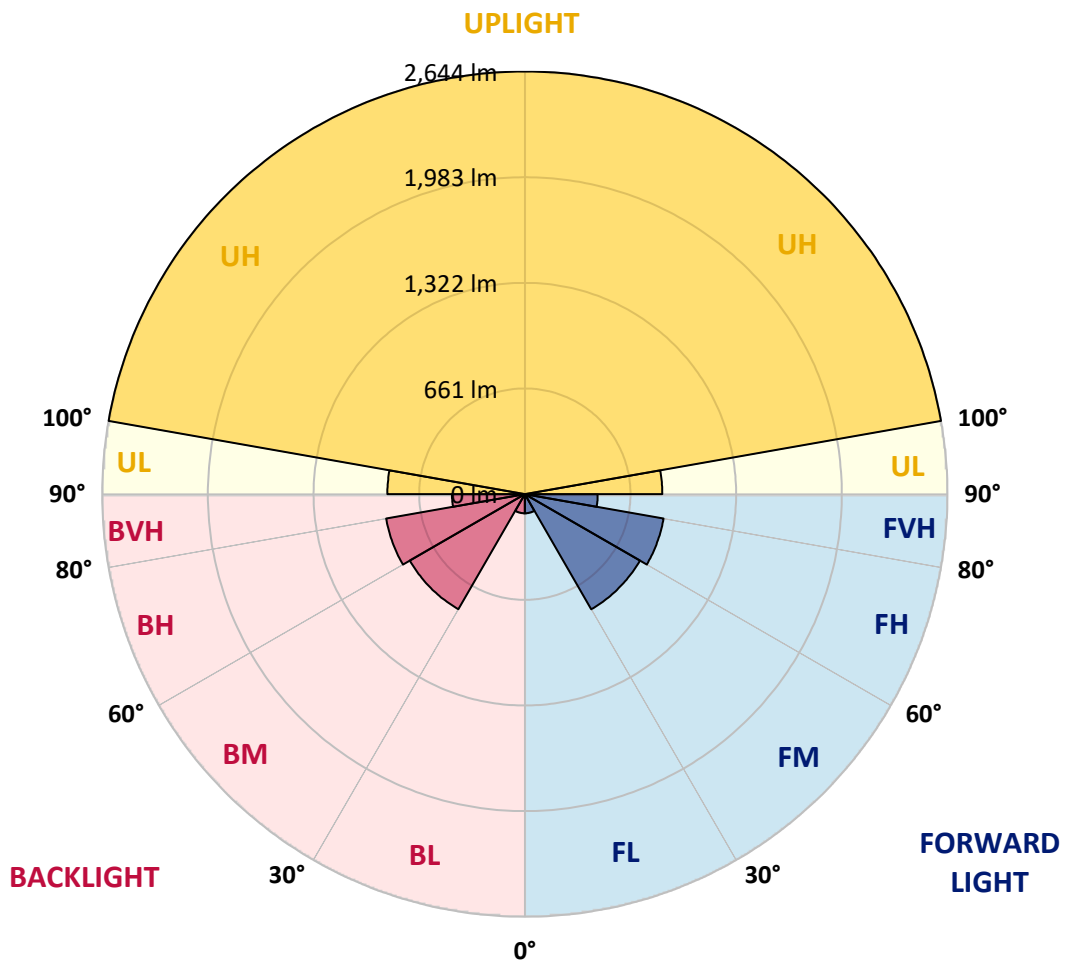
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	120.0	1.5			
FM (30°-60°)	831.4	10.3			
FH (60°-80°)	881.2	10.9			G1/1800
FVH (80°-90°)	456.0	5.6			G3/500
BL (0°-30°)	120.0	1.5	B1/500		
BM (30°-60°)	831.4	10.3	B1/1000		
BH (60°-80°)	881.2	10.9	B2/1000		G1/1800
BVH (80°-90°)	456.0	5.6			G3/500
UL (90°-100°)	860.1	10.6		U4/1000	
UH (100°-180°)	2644.3	32.7		U5	

BUG Rating: B2-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
2.5°	74.1	74.1	73.5	73.5	73.0	72.5	72.5	72.5	72.0	72.0	71.5
5°	84.4	83.9	83.9	83.4	83.9	83.4	83.4	83.4	83.4	82.4	82.4
7.5°	104.6	104.1	104.1	103.6	104.6	103.6	103.6	104.1	104.1	103.6	103.6
10°	131.0	130.5	130.5	129.5	130.5	130.0	130.0	129.0	129.5	129.0	129.5
12.5°	162.6	161.1	161.1	160.6	161.6	161.1	160.6	159.5	160.6	160.0	160.0
15°	195.3	195.8	195.3	194.7	195.8	195.8	195.3	194.2	195.3	194.2	194.7
17.5°	231.5	231.5	231.5	230.0	231.5	232.0	231.5	230.5	231.0	231.5	231.5
20°	270.9	270.9	271.4	270.4	273.0	271.4	270.9	270.4	270.9	271.4	271.9
22.5°	314.4	314.4	314.9	314.4	315.9	315.9	315.4	315.4	315.9	317.0	317.0
25°	362.6	363.1	363.1	361.5	365.2	366.2	365.2	365.2	366.2	367.7	367.7
27.5°	412.3	414.4	413.3	413.3	418.0	418.5	418.0	418.5	420.1	421.6	422.1
30°	463.6	465.1	467.2	465.6	470.8	471.3	471.8	472.4	474.4	477.0	477.0
32.5°	514.8	516.4	517.4	517.4	524.2	523.6	523.1	525.2	528.3	529.3	530.9
35°	566.1	566.1	567.2	567.7	574.4	573.9	574.9	576.5	579.6	581.7	582.7
37.5°	612.2	611.2	613.8	614.8	620.0	620.5	621.0	623.6	627.2	629.8	630.9
40°	654.2	653.1	656.2	657.8	662.5	662.5	663.5	666.6	670.7	673.3	673.8
42.5°	691.5	690.9	694.0	696.1	700.8	700.3	699.7	703.9	708.6	711.7	712.7
45°	723.6	723.1	727.2	729.8	733.4	732.4	732.4	736.0	741.2	744.8	745.3
47.5°	751.0	751.0	755.7	758.8	761.9	760.3	759.3	762.9	768.1	773.3	773.8
50°	775.4	774.8	780.0	783.7	786.2	784.2	782.6	786.2	791.9	797.1	798.2
52.5°	794.5	795.6	800.7	805.4	807.5	804.4	801.8	805.4	811.6	817.3	818.4
55°	811.1	811.6	817.3	823.0	824.1	819.9	816.8	819.9	826.6	832.9	833.9
57.5°	824.1	825.1	831.8	837.0	837.5	832.9	829.2	831.8	839.1	845.3	846.8
60°	835.4	836.5	842.7	848.4	848.9	843.2	838.6	840.6	848.4	855.6	856.7
62.5°	844.3	845.8	852.5	857.7	857.7	851.0	845.3	847.4	855.6	863.4	864.5
65°	851.5	853.1	859.8	865.0	864.5	856.7	850.5	852.5	861.3	869.1	870.7
67.5°	856.7	857.7	865.0	870.1	868.1	859.8	853.6	855.1	864.5	872.2	873.8
70°	859.8	860.8	868.1	872.7	869.6	860.8	854.1	856.2	865.5	873.8	875.3
72.5°	861.3	862.9	869.6	873.8	870.1	860.3	853.1	855.6	865.0	873.8	874.8
75°	860.8	861.9	868.6	872.2	867.6	858.2	850.5	853.1	862.9	870.7	872.2
77.5°	858.2	859.3	865.5	868.6	862.9	853.6	846.3	848.9	858.2	866.0	867.6
80°	854.1	855.1	860.8	862.9	857.2	847.9	841.1	843.7	852.5	859.8	861.3
82.5°	847.4	848.9	854.1	855.1	848.9	840.6	833.9	836.5	844.8	851.5	852.5
85°	839.1	840.1	844.8	845.3	839.1	831.8	826.1	828.7	836.0	841.1	842.7
87.5°	829.7	829.7	834.4	834.4	827.7	820.9	816.8	818.9	825.6	829.7	831.3
90°	818.4	818.9	822.0	821.5	815.2	809.5	805.9	808.5	814.2	817.8	818.9
92.5°	805.9	806.4	809.0	808.0	801.8	797.1	794.0	797.1	802.3	804.9	805.9
95°	792.5	793.0	795.0	793.0	787.3	783.7	781.1	784.7	788.8	791.4	792.5
97.5°	778.5	779.0	780.5	778.5	772.3	769.2	768.1	771.2	775.4	777.4	778.5
100°	764.0	764.0	765.0	761.9	756.7	754.1	753.6	757.2	761.4	763.5	764.5
102.5°	747.9	748.4	748.4	745.3	740.1	738.6	738.6	742.7	746.9	748.4	749.5
105°	731.3	731.3	731.3	728.8	723.1	722.0	722.5	726.7	731.3	733.4	734.4
107.5°	713.2	713.7	712.7	710.1	705.4	704.4	705.4	711.1	715.3	717.4	718.4
110°	694.0	694.6	694.0	690.9	686.8	686.3	687.8	693.5	697.7	699.7	701.3



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 CATALOG NUMBER: FFX-CLB-50-730-U-VM8

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	673.8	674.4	673.8	671.3	667.1	667.1	669.2	674.9	679.5	681.1	682.7
115°	652.6	653.1	652.1	650.0	645.9	646.9	649.0	654.7	659.3	660.9	663.0
117.5°	629.8	630.3	629.8	627.2	623.6	624.6	627.8	633.4	637.6	639.1	641.2
120°	605.0	605.0	605.0	602.4	598.7	600.8	603.9	610.1	613.8	614.8	616.9
122.5°	579.6	578.5	578.5	577.0	572.8	575.4	578.5	584.8	588.4	588.9	590.5
125°	551.6	552.1	550.6	549.5	545.9	549.0	551.6	557.8	560.9	561.5	563.0
127.5°	521.6	523.1	521.6	520.0	517.4	520.5	523.6	529.3	531.9	532.4	533.5
130°	493.6	493.6	492.0	491.0	488.4	491.5	494.6	499.8	502.4	502.4	503.4
132.5°	465.6	464.1	463.6	462.5	459.4	463.0	465.1	470.3	472.4	471.8	472.9
135°	435.1	435.1	433.5	433.0	430.4	434.0	436.1	440.8	442.3	441.8	442.8
137.5°	406.6	406.6	405.6	404.5	403.0	406.1	408.1	411.8	413.3	411.8	413.3
140°	378.6	378.6	378.1	377.1	375.5	378.6	380.2	383.3	384.8	383.3	384.3
142.5°	352.7	351.7	351.2	350.6	348.6	351.7	352.7	355.8	356.3	355.3	356.9
145°	325.3	325.8	325.3	324.8	323.2	325.8	326.8	329.4	329.9	328.9	330.4
147.5°	302.5	300.9	301.4	300.9	299.4	302.0	302.5	304.0	305.1	304.0	305.1
150°	279.7	278.7	278.7	278.1	277.1	279.2	279.7	281.2	281.8	280.7	281.8
152.5°	259.5	259.0	259.0	258.5	257.4	259.0	259.5	260.5	261.0	260.0	260.5
155°	241.4	240.8	240.8	240.3	239.3	240.8	240.8	241.9	242.4	241.9	242.4
157.5°	225.3	224.8	224.8	224.8	223.8	224.8	224.8	225.8	225.8	225.3	225.8
160°	212.4	211.3	211.8	211.3	210.3	211.3	211.3	211.8	211.8	211.8	211.8
162.5°	200.4	200.4	200.4	199.9	199.4	199.9	199.9	200.4	200.4	200.4	199.9
165°	191.1	191.1	191.1	190.6	190.1	190.6	190.6	190.6	190.6	190.6	190.6
167.5°	183.4	182.8	183.4	182.8	182.3	182.8	182.8	182.8	182.8	182.8	182.8
170°	176.6	176.6	176.6	176.6	176.1	176.6	176.6	176.6	176.6	176.6	176.6
172.5°	172.5	172.0	172.0	172.0	171.4	172.0	171.4	172.0	171.4	172.0	171.4
175°	168.9	168.9	168.9	168.9	168.3	168.3	168.3	168.3	168.3	168.3	168.3
177.5°	166.8	166.8	166.8	166.8	166.8	166.8	166.8	166.8	166.8	166.8	166.8
180°	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.3

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



Test Conditions

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

REPORT NUMBER: SP1-2406-133-4

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

REPORT NUMBER: SP1-2406-133-4

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

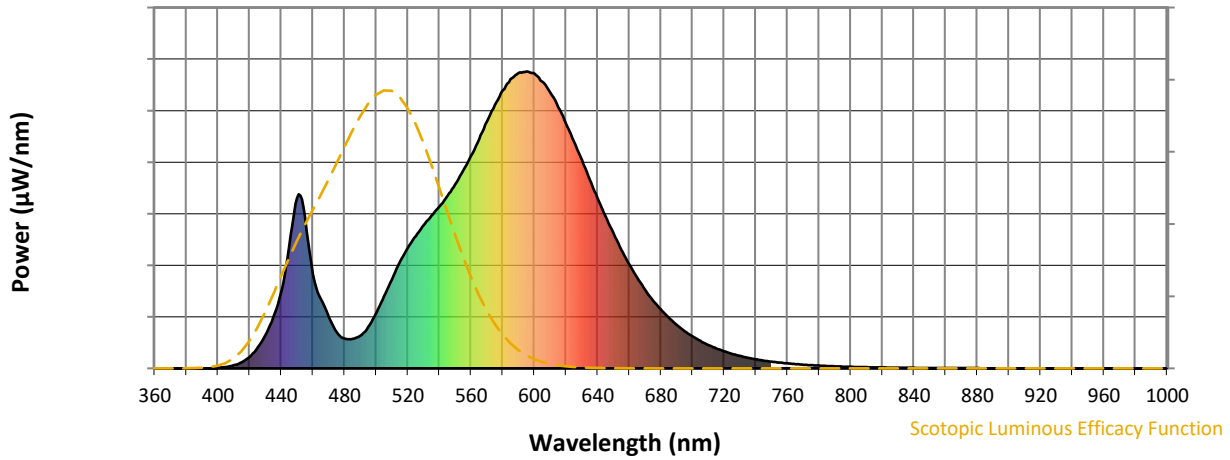


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2406-133-4

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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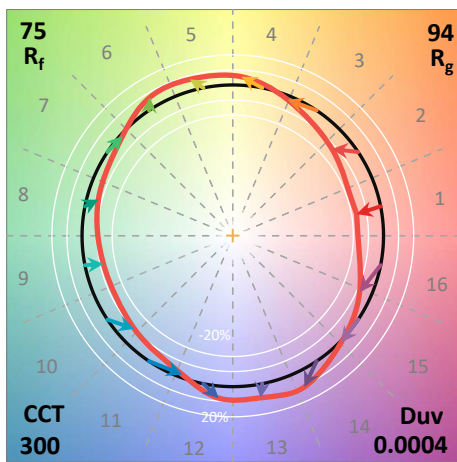
TM-30-18

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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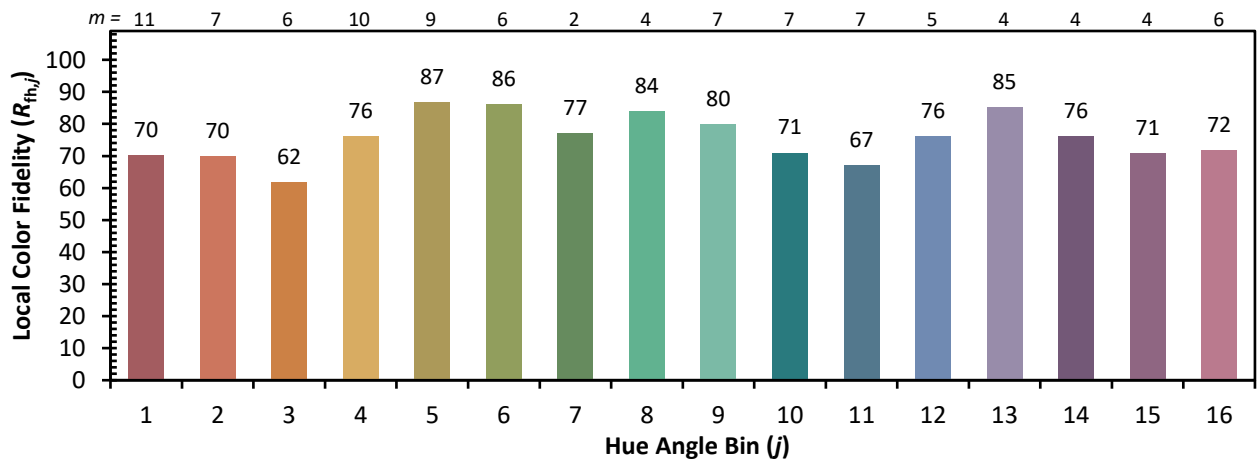
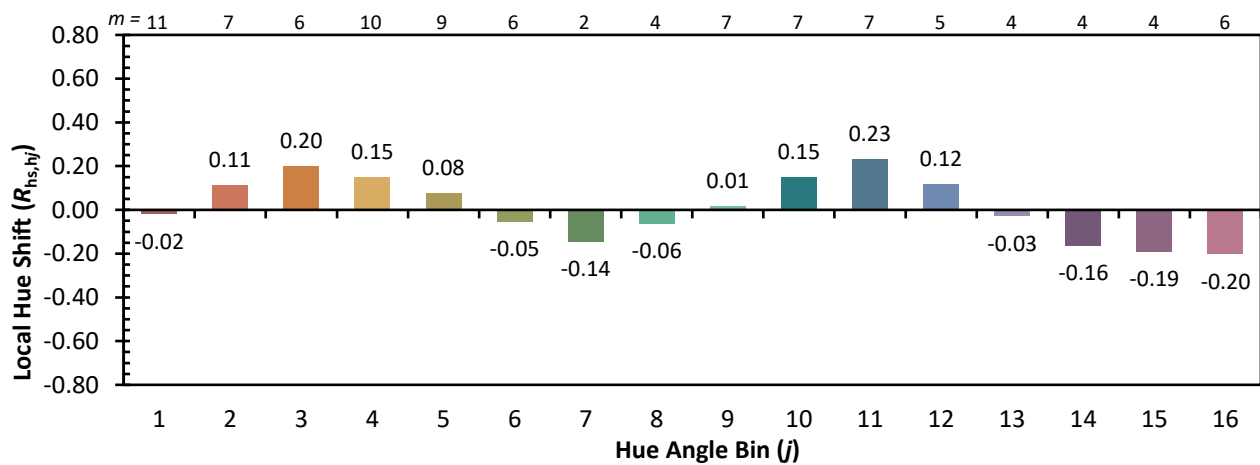
TM-30-18

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

CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
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	



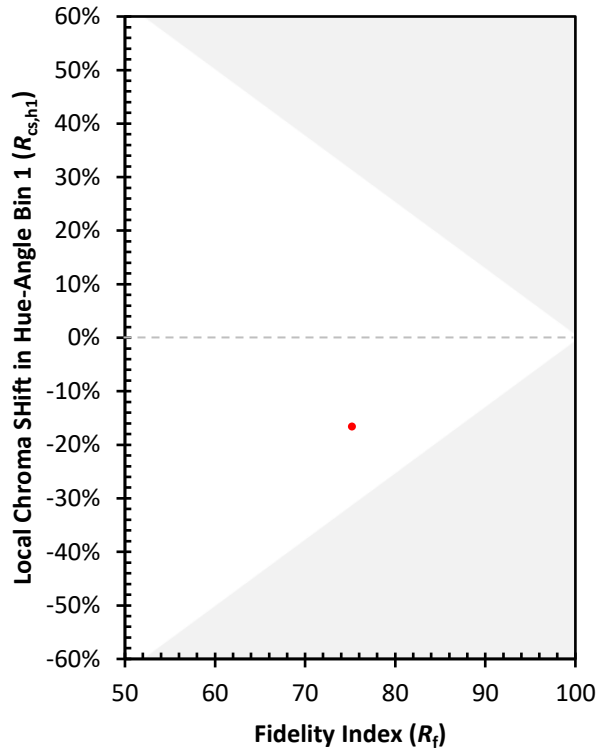
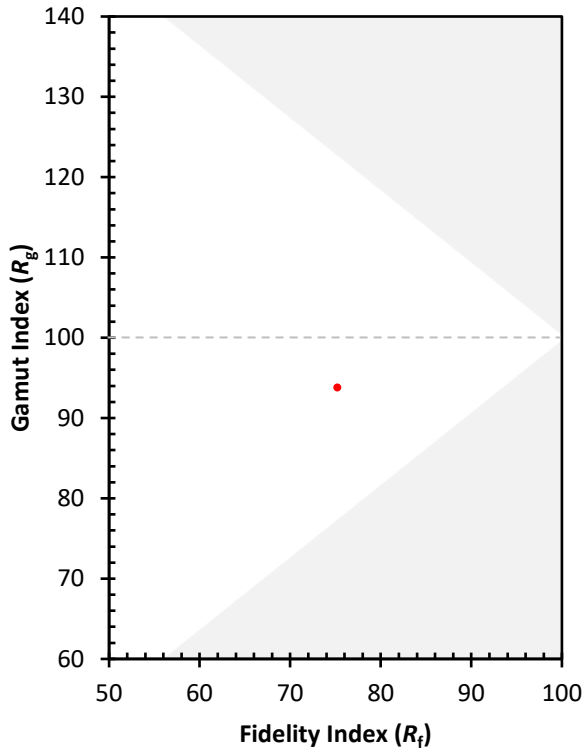
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)