

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: P856166

Luminaire Tested: **FFX-CLB-80-730-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856166
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-FR-T5-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

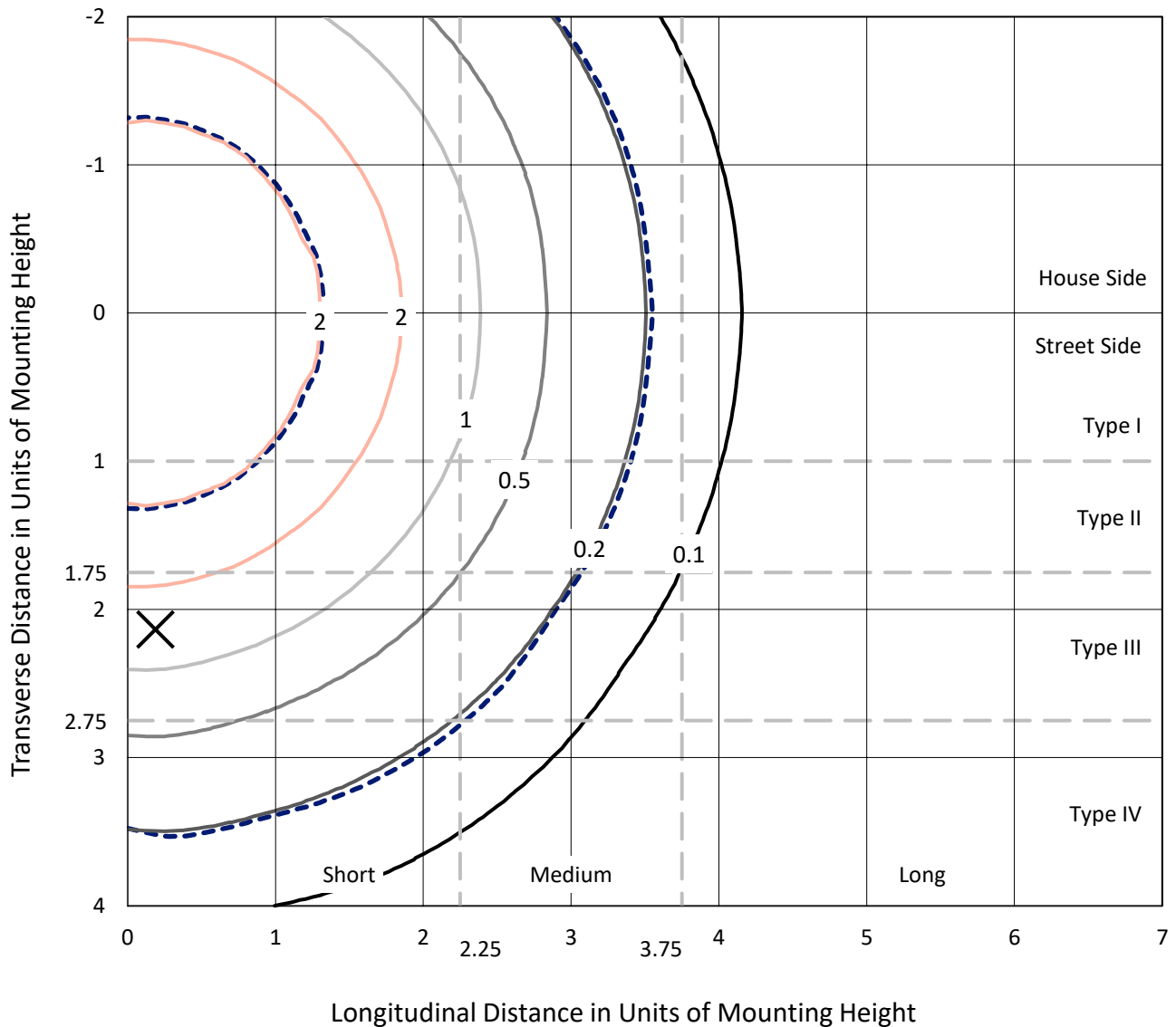
Lumens per Lamp: N/A
Luminaire Lumens: 12525.9 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U5 - G3

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

REPORT NUMBER: P856166
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Iso-Footcandle Lines of Horizontal Illumination

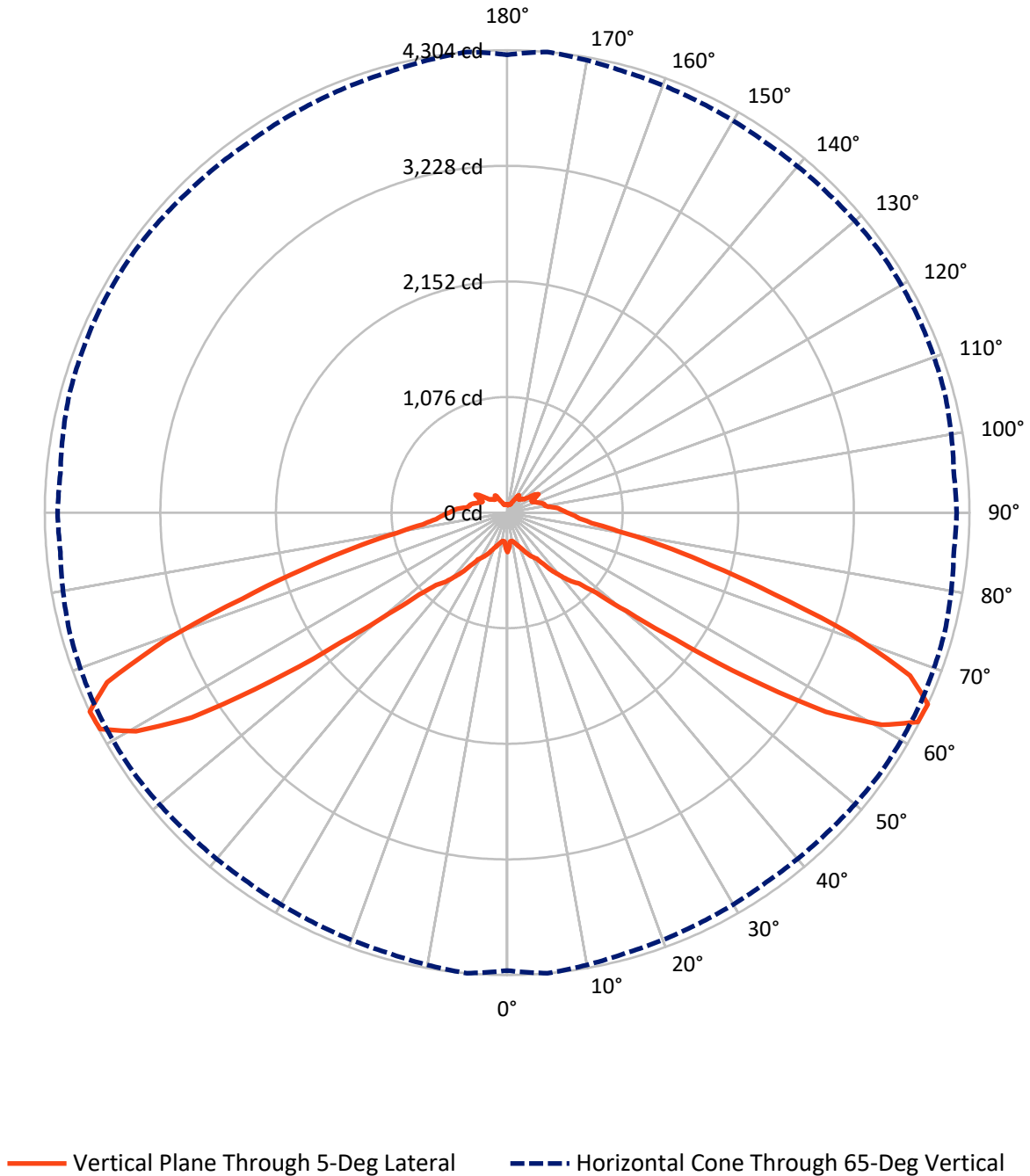
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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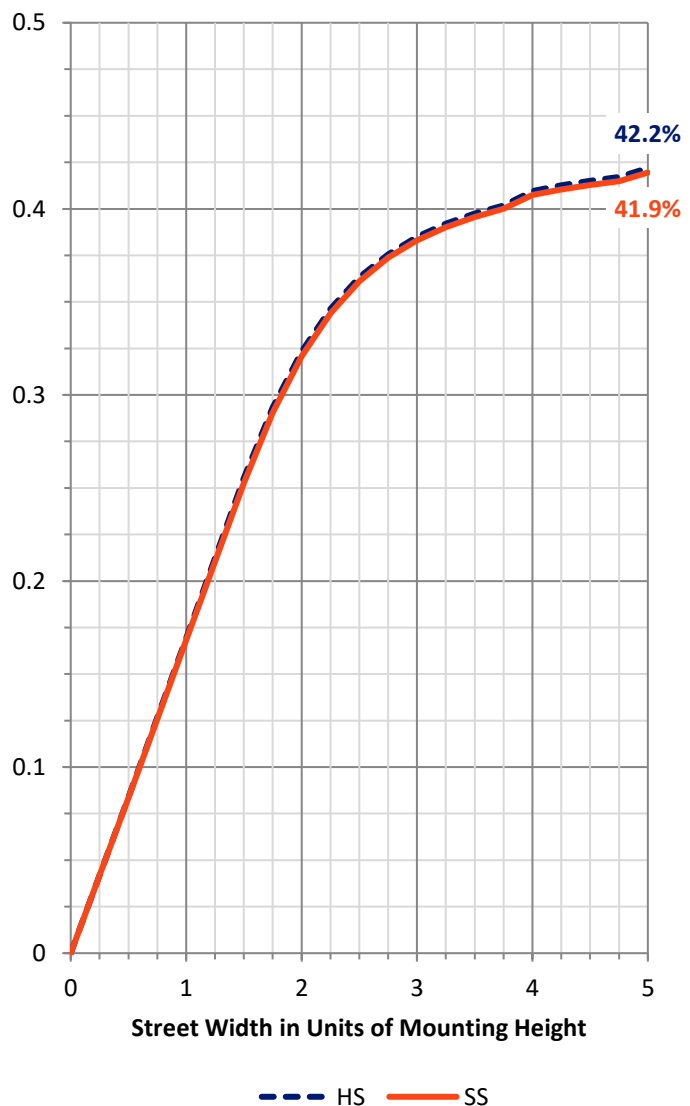
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5471.5	791.5	6263.0
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	5471.5	791.5	6263.0
	% Fixture	43.7	6.3	50.0
Total	Lumens	10943.0	1582.9	12525.9
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	0.2
10°-20°	87.9	0.7
20°-30°	190.6	1.5
30°-40°	386.2	3.1
40°-50°	778.6	6.2
50°-60°	2475.3	19.8
60°-70°	3991.9	31.9
70°-80°	2176.9	17.4
80°-90°	828.9	6.6
90°-100°	497.4	4.0
100°-110°	317.2	2.5
110°-120°	241.3	1.9
120°-130°	204.2	1.6
130°-140°	133.0	1.1
140°-150°	111.5	0.9
150°-160°	50.0	0.4
160°-170°	21.2	0.2
170°-180°	7.1	0.1
0°-90°	10943.0	87.4
0°-180°	12525.9	100.0



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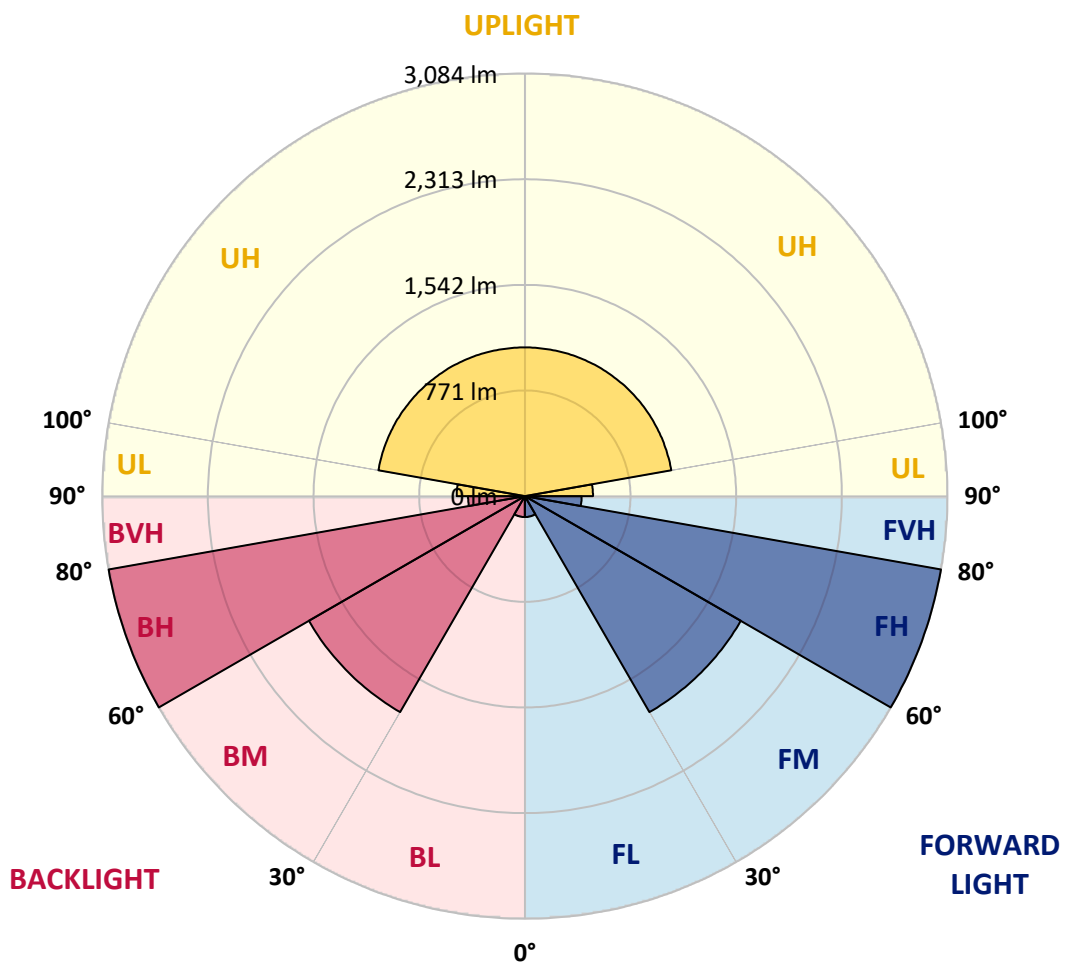
CATALOG NUMBER: FFX-CLB-80-730-U-FR-T5-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.6	1.2			
FM (30°-60°)	1820.0	14.5			
FH (60°-80°)	3084.4	24.6			G2/5000
FVH (80°-90°)	414.5	3.3			G3/500
BL (0°-30°)	152.6	1.2	B1/500		
BM (30°-60°)	1820.0	14.5	B2/2500		
BH (60°-80°)	3084.4	24.6	B4/5000		G2/5000
BVH (80°-90°)	414.5	3.3			G3/500
UL (90°-100°)	497.4	4.0		U3/500	
UH (100°-180°)	1085.5	8.7		U5	

BUG Rating: B4-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6
2.5°	328.3	333.6	319.2	307.4	302.2	303.5	315.3	327.0	315.3	319.2	319.2
5°	272.1	273.4	273.4	270.8	274.7	266.9	257.7	257.7	266.9	277.3	277.3
7.5°	262.9	266.9	277.3	277.3	281.2	268.2	255.1	256.4	269.5	285.2	289.1
10°	270.8	270.8	268.2	270.8	279.9	278.6	264.2	257.7	266.9	282.6	287.8
12.5°	282.6	282.6	290.4	302.2	303.5	291.7	277.3	276.0	286.5	296.9	296.9
15°	299.6	300.9	304.8	303.5	307.4	303.5	299.6	302.2	308.7	308.7	308.7
17.5°	321.8	321.8	321.8	321.8	321.8	323.1	324.4	324.4	324.4	327.0	327.0
20°	346.7	346.7	345.3	344.0	344.0	345.3	346.7	346.7	346.7	349.3	349.3
22.5°	378.1	376.7	374.1	374.1	374.1	375.4	372.8	371.5	370.2	371.5	371.5
25°	414.7	414.7	412.1	408.1	408.1	406.8	402.9	401.6	400.3	402.9	401.6
27.5°	451.3	451.3	447.4	442.1	442.1	442.1	439.5	436.9	434.3	435.6	435.6
30°	485.3	482.7	481.4	477.5	476.2	477.5	474.9	474.9	469.6	468.3	470.9
32.5°	516.7	514.1	516.7	512.8	508.9	512.8	511.5	511.5	503.6	501.0	503.6
35°	603.0	596.5	601.7	592.6	587.4	588.7	591.3	596.5	588.7	584.7	586.0
37.5°	695.9	694.6	711.6	726.0	723.4	701.2	686.8	689.4	699.9	714.2	714.2
40°	782.3	779.6	783.6	778.3	778.3	775.7	774.4	781.0	760.0	754.8	750.9
42.5°	872.5	871.2	849.0	817.6	811.0	837.2	849.0	858.1	828.0	817.6	809.7
45°	961.5	943.2	939.2	928.8	918.3	935.3	934.0	940.5	926.2	924.8	918.3
47.5°	1148.5	1114.5	1102.8	1104.1	1081.8	1100.1	1108.0	1128.9	1098.8	1100.1	1098.8
50°	1486.0	1442.9	1462.5	1449.4	1425.9	1448.1	1446.8	1484.7	1435.0	1453.3	1445.5
52.5°	2013.2	1954.4	1966.1	1958.3	1934.7	1980.5	1991.0	2047.2	1951.7	1975.3	1968.7
55°	2775.9	2711.8	2737.9	2643.7	2618.9	2709.1	2743.2	2808.6	2681.7	2694.8	2688.2
57.5°	3503.2	3499.3	3543.7	3477.0	3454.8	3518.9	3487.5	3545.0	3477.0	3525.4	3509.7
60°	3999.0	4009.4	4053.9	4073.5	4034.3	4068.3	3992.4	4035.6	4014.7	4085.3	4078.8
62.5°	4256.7	4290.7	4264.5	4265.8	4222.7	4248.8	4234.4	4259.3	4254.0	4260.6	4254.0
65°	4261.9	4303.8	4246.2	4220.0	4201.7	4212.2	4237.0	4237.0	4221.3	4174.3	4184.7
67.5°	3983.3	4046.1	3982.0	3945.3	3955.8	3951.9	3968.9	3946.6	3937.5	3868.1	3869.5
70°	3297.8	3398.5	3304.3	3270.3	3297.8	3314.8	3313.5	3295.2	3280.8	3194.5	3219.3
72.5°	2503.8	2592.7	2509.0	2495.9	2522.1	2548.2	2526.0	2548.2	2524.7	2485.5	2497.2
75°	1890.3	1966.1	1966.1	2015.8	2023.7	2009.3	1947.8	1972.7	1988.4	1989.7	2001.4
77.5°	1390.5	1470.3	1512.2	1593.3	1589.4	1564.5	1490.0	1518.7	1548.8	1569.8	1584.1
80°	988.9	1049.1	1110.6	1168.2	1176.0	1155.1	1109.3	1126.3	1144.6	1159.0	1166.9
82.5°	766.6	794.0	782.3	775.7	786.2	816.3	826.7	837.2	811.0	794.0	800.6
85°	668.5	671.1	692.0	706.4	710.3	710.3	699.9	707.7	714.2	731.2	731.2
87.5°	609.6	612.2	664.5	678.9	684.2	677.6	664.5	669.8	675.0	685.5	685.5
90°	541.6	549.4	601.7	613.5	618.7	608.3	604.4	608.3	601.7	605.7	605.7
92.5°	503.6	503.6	528.5	523.3	521.9	523.3	524.6	528.5	521.9	519.3	519.3
95°	460.5	467.0	460.5	465.7	464.4	457.8	455.2	457.8	453.9	453.9	456.5
97.5°	385.9	387.2	375.4	379.4	379.4	374.1	367.6	370.2	366.3	368.9	370.2
100°	361.0	357.1	337.5	334.9	333.6	329.6	325.7	325.7	324.4	323.1	324.4
102.5°	353.2	353.2	327.0	321.8	319.2	312.6	307.4	307.4	307.4	307.4	308.7
105°	323.1	332.3	312.6	308.7	304.8	296.9	289.1	287.8	290.4	287.8	291.7
107.5°	293.0	300.9	290.4	290.4	286.5	278.6	273.4	272.1	273.4	270.8	273.4
110°	276.0	279.9	268.2	268.2	265.6	259.0	257.7	256.4	256.4	252.5	255.1



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CATALOG NUMBER: FFX-CLB-80-730-U-FR-T5-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	255.1	255.1	245.9	243.3	243.3	239.4	238.1	236.8	236.8	236.8	238.1
115°	253.8	252.5	238.1	228.9	227.6	226.3	227.6	226.3	226.3	225.0	225.0
117.5°	310.0	296.9	248.5	226.3	226.3	227.6	232.8	228.9	219.8	219.8	218.5
120°	334.9	337.5	286.5	262.9	257.7	251.2	249.9	247.2	238.1	236.8	242.0
122.5°	295.6	308.7	277.3	268.2	262.9	255.1	249.9	248.5	248.5	242.0	251.2
125°	230.2	242.0	226.3	225.0	223.7	225.0	222.4	222.4	225.0	221.1	222.4
127.5°	197.5	202.8	196.2	196.2	194.9	193.6	191.0	192.3	191.0	192.3	193.6
130°	189.7	193.6	187.1	184.4	184.4	185.8	185.8	185.8	181.8	179.2	180.5
132.5°	188.4	187.1	176.6	171.4	171.4	180.5	184.4	184.4	175.3	168.7	168.7
135°	170.1	171.4	170.1	163.5	164.8	167.4	171.4	172.7	163.5	159.6	160.9
137.5°	163.5	167.4	168.7	166.1	166.1	163.5	162.2	163.5	160.9	162.2	162.2
140°	163.5	164.8	168.7	171.4	168.7	166.1	166.1	166.1	167.4	171.4	174.0
142.5°	167.4	168.7	167.4	166.1	170.1	176.6	181.8	181.8	177.9	175.3	176.6
145°	192.3	196.2	196.2	192.3	194.9	192.3	192.3	189.7	189.7	189.7	191.0
147.5°	183.1	181.8	184.4	188.4	184.4	183.1	183.1	184.4	187.1	188.4	189.7
150°	143.9	140.0	142.6	150.4	149.1	149.1	149.1	150.4	151.7	151.7	153.1
152.5°	113.8	113.8	116.4	116.4	117.7	117.7	116.4	116.4	116.4	117.7	117.7
155°	102.0	100.7	103.3	107.3	104.7	104.7	104.7	104.7	104.7	104.7	106.0
157.5°	89.0	87.6	87.6	89.0	89.0	89.0	89.0	90.3	90.3	89.0	90.3
160°	81.1	81.1	79.8	79.8	79.8	81.1	82.4	82.4	81.1	79.8	79.8
162.5°	77.2	77.2	74.6	73.3	73.3	74.6	77.2	77.2	74.6	73.3	73.3
165°	77.2	75.9	71.9	69.3	69.3	71.9	75.9	75.9	71.9	69.3	69.3
167.5°	75.9	75.9	73.3	70.6	70.6	73.3	74.6	75.9	74.6	71.9	70.6
170°	73.3	73.3	74.6	74.6	73.3	73.3	73.3	73.3	74.6	74.6	74.6
172.5°	75.9	74.6	75.9	77.2	77.2	75.9	74.6	74.6	75.9	77.2	77.2
175°	77.2	77.2	75.9	75.9	75.9	74.6	74.6	74.6	75.9	77.2	75.9
177.5°	69.3	69.3	68.0	69.3	69.3	69.3	68.0	69.3	69.3	69.3	70.6
180°	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4

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.

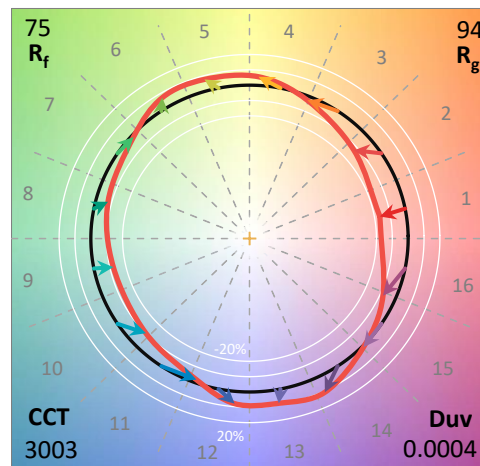
Test Information

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

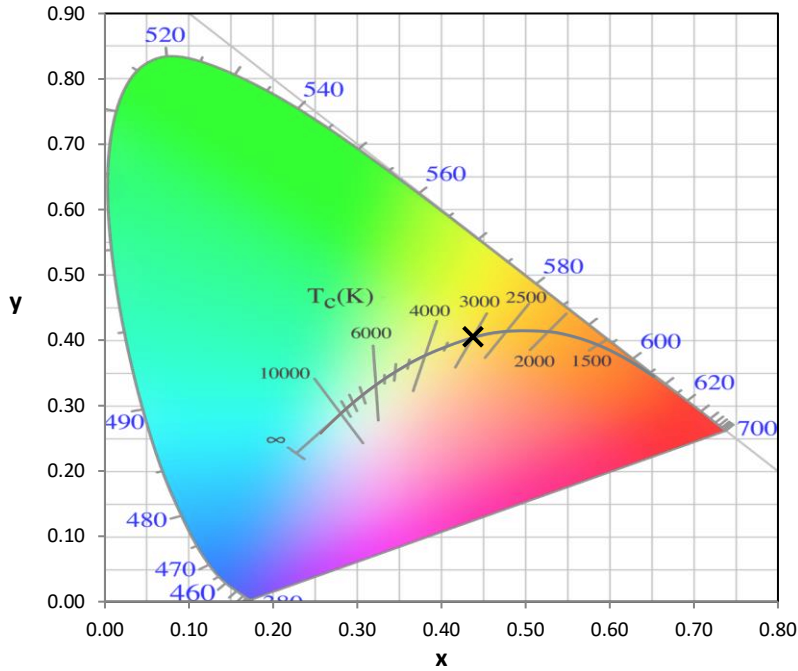
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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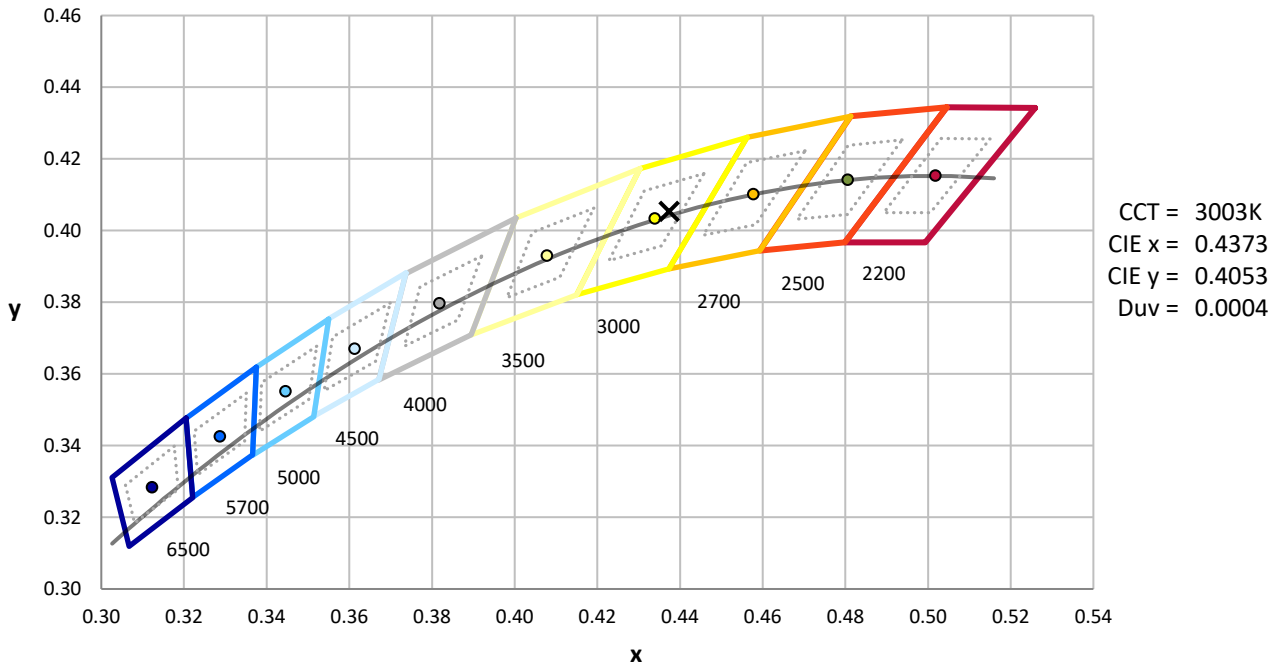
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



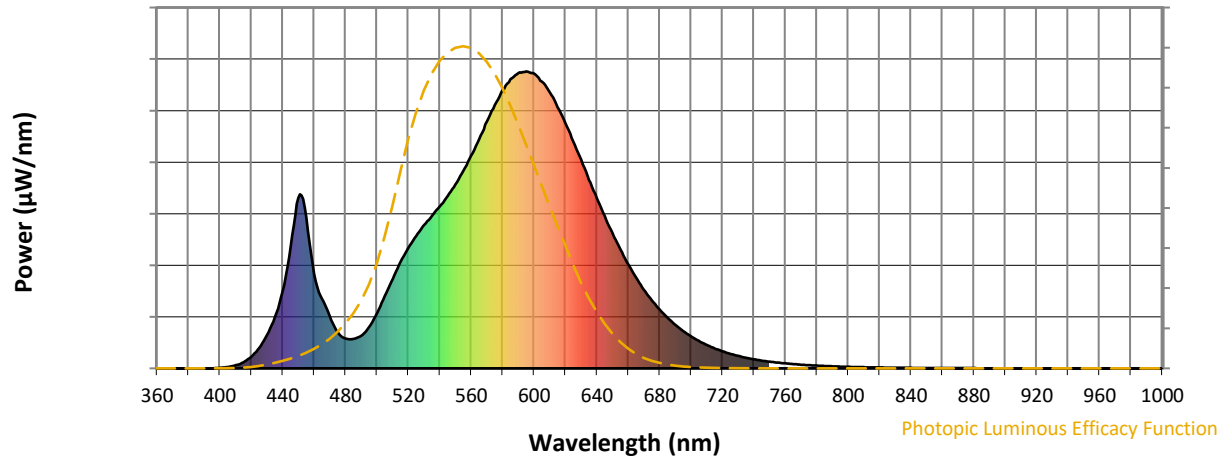
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

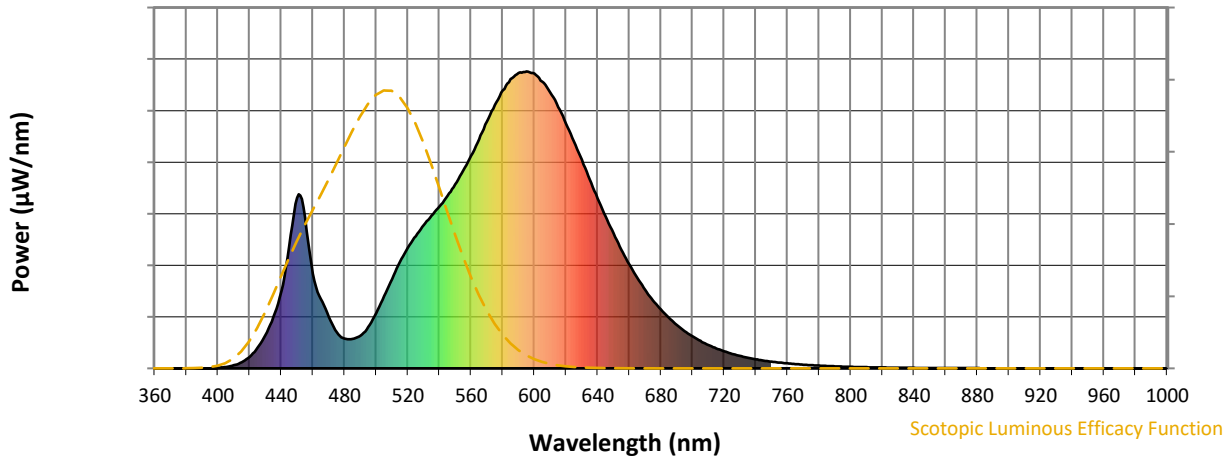


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2406-133-4

Scotopic Flux vs. Wavelength



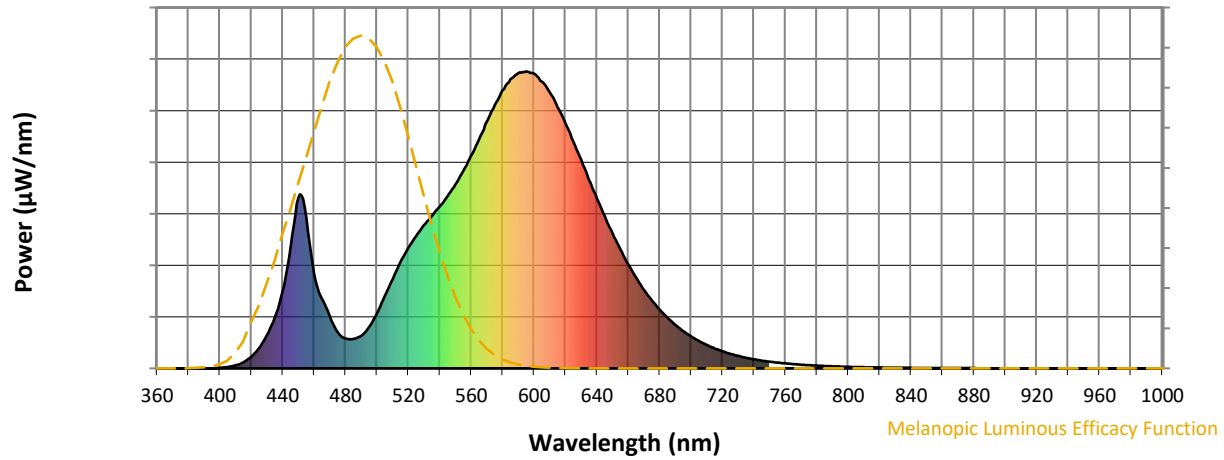
Scotopic Lumens: NR

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

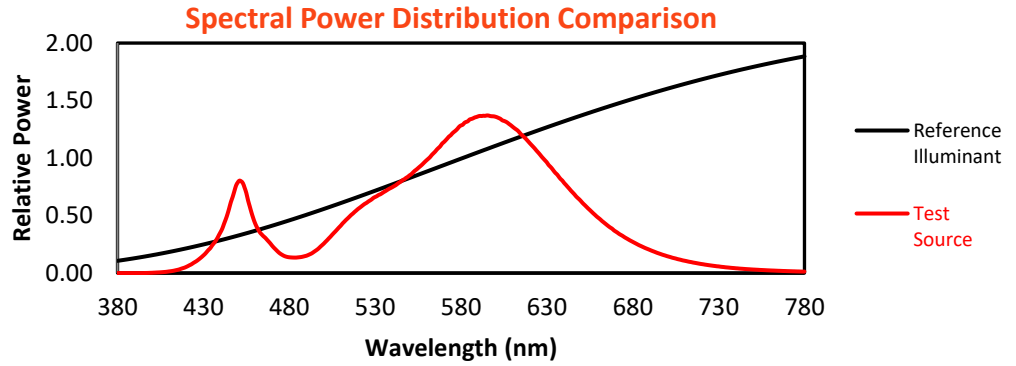
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	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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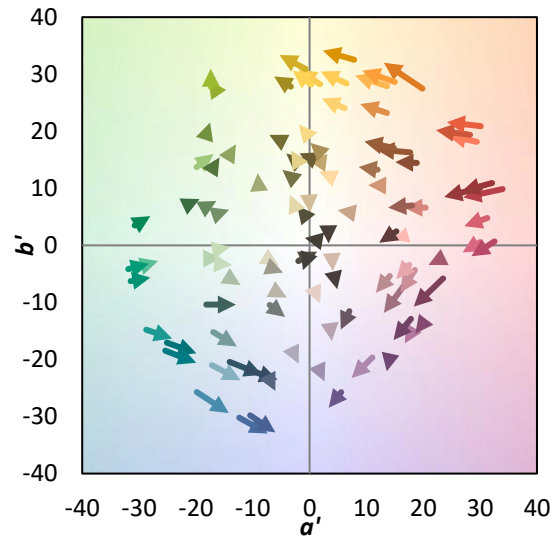
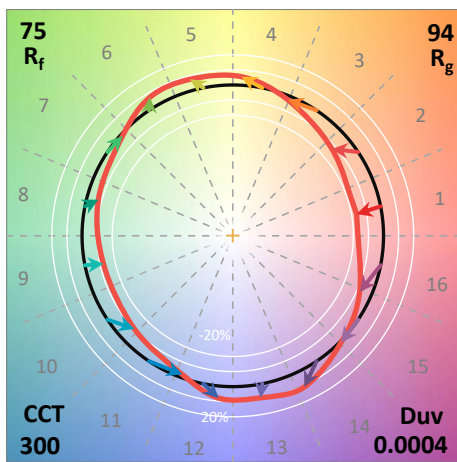
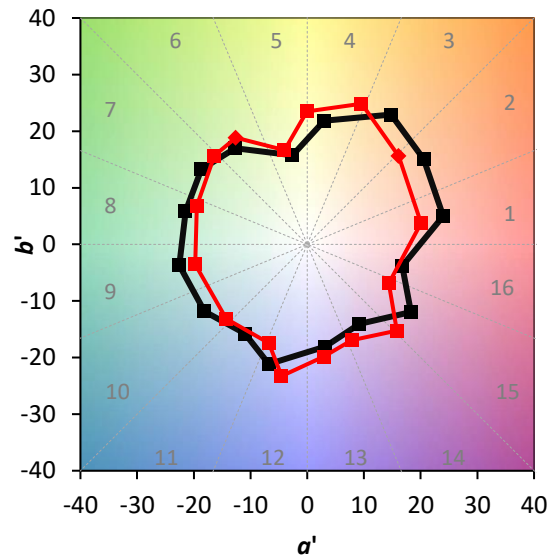
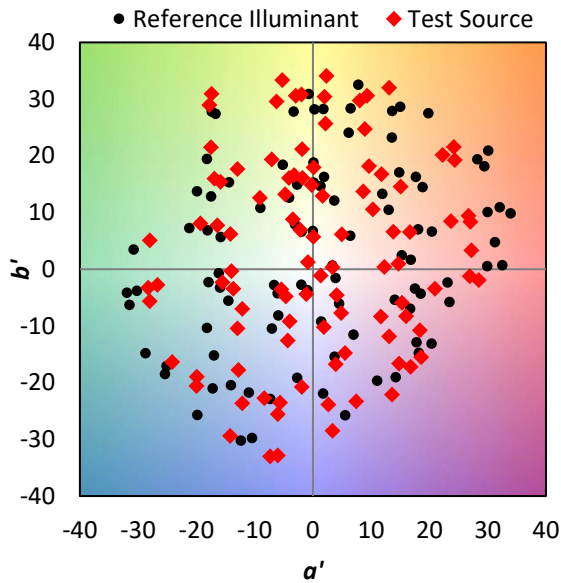
TM-30-18

Summary

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



Color Vector Graphics

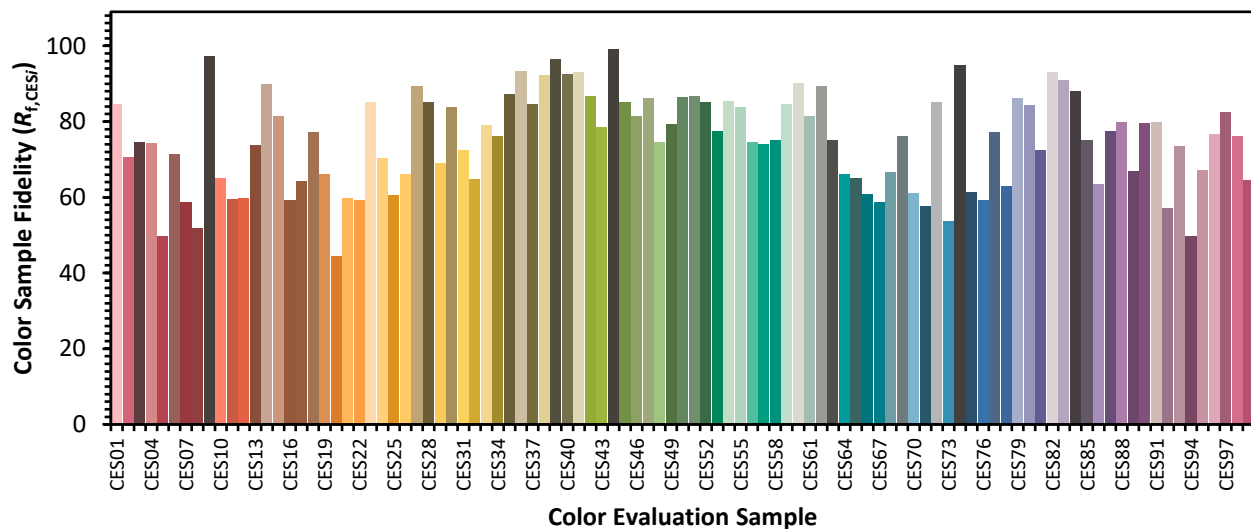


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Individual Sample Fidelity Index ($R_{f,i}$)

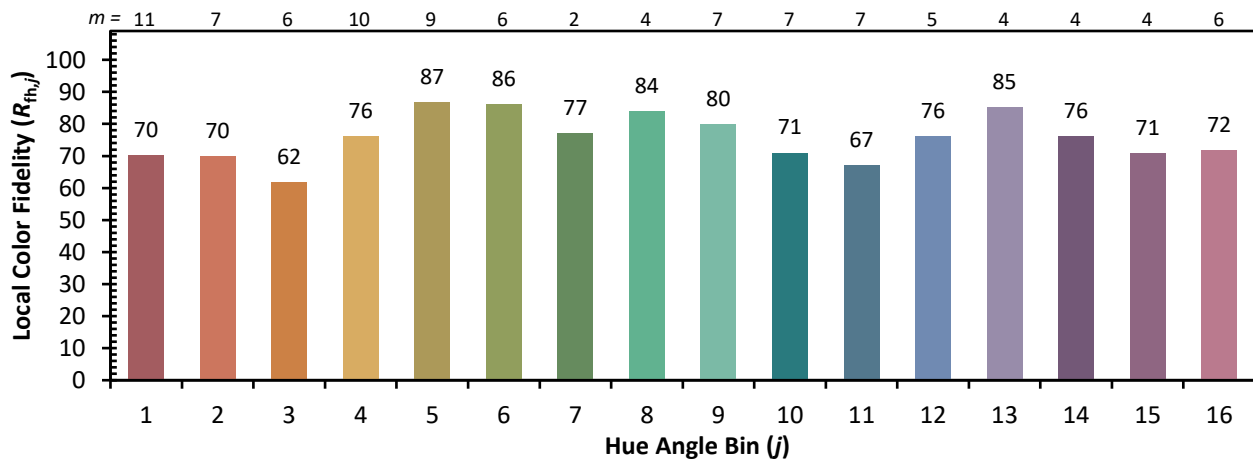
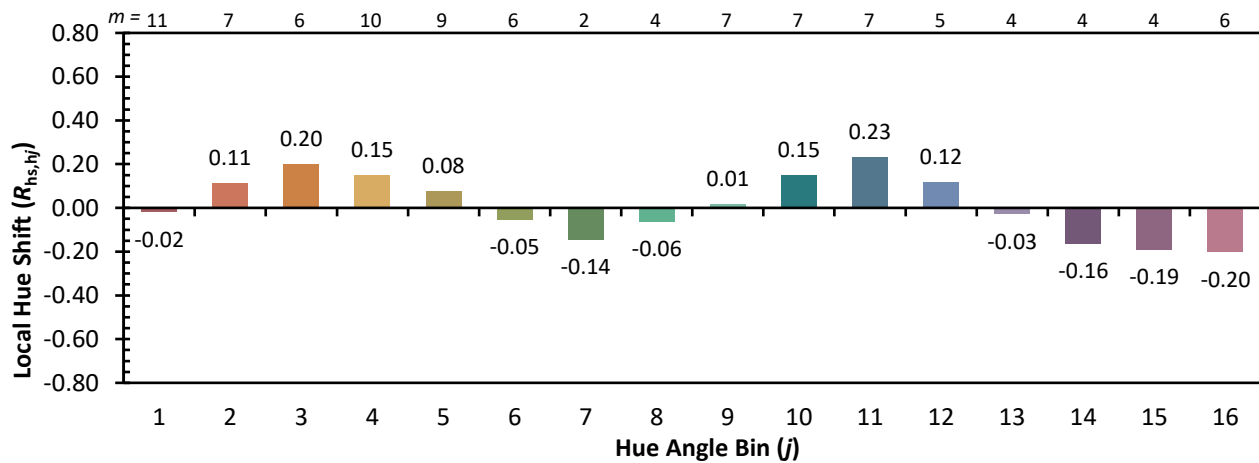
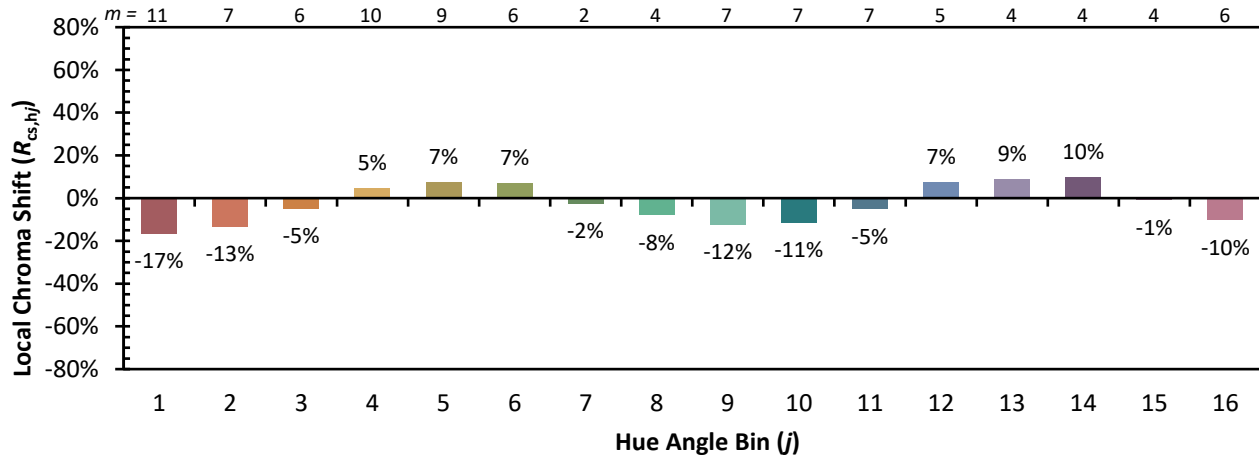
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CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57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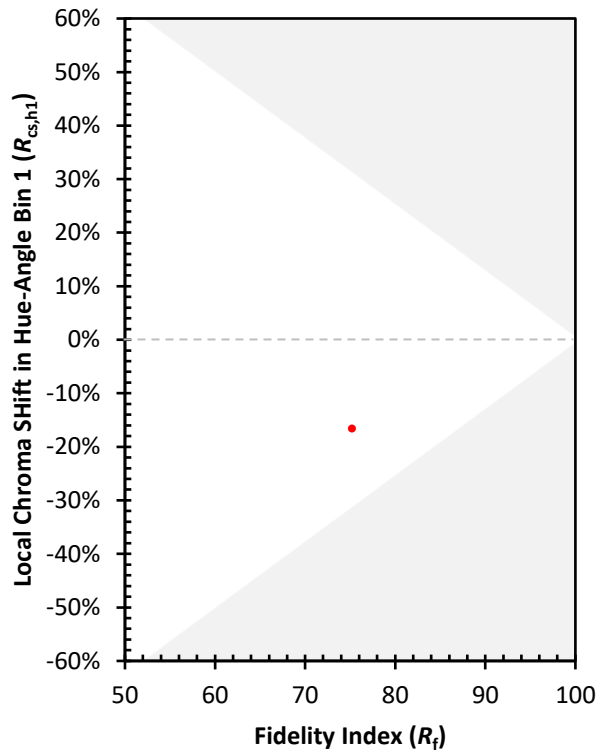
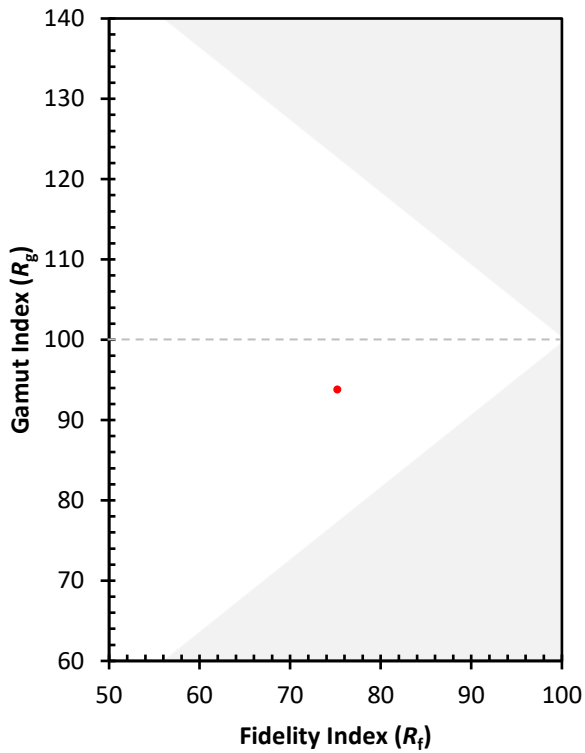
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)