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: P856172

Luminaire Tested: **FFX-CLB-20-730-U-FR-T5-UPLR**

Issue Date: 07/16/2024

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P856172
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/16/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-730-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:	3128.9 lumens
Efficiency:	N/A
Efficacy:	160.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type V - Short
BUG Rating:	B2 - U3 - G2

Input Watts (W):	19.5
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.8%%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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REPORT NUMBER: P856172
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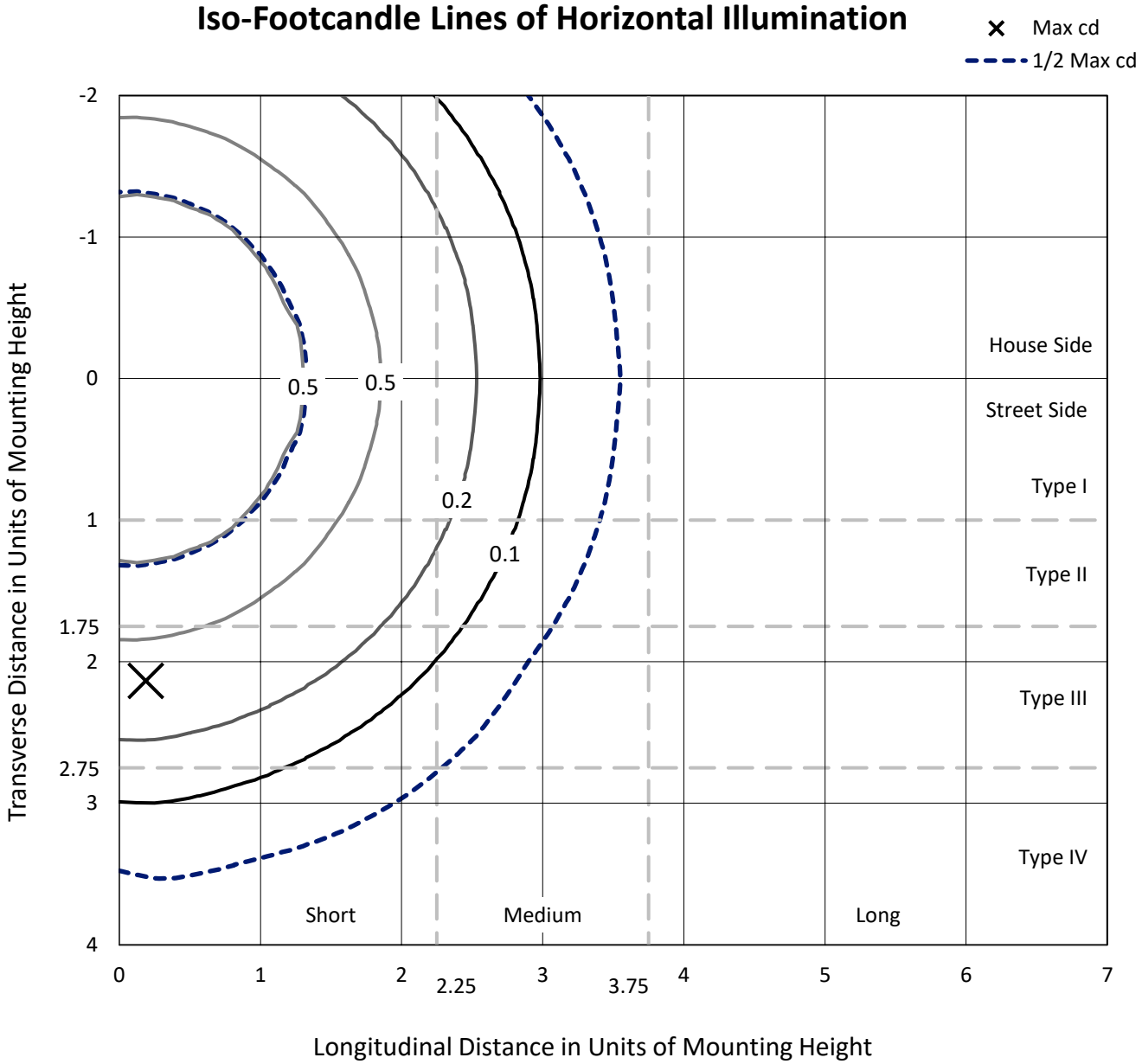
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
Type V - Short - N/A

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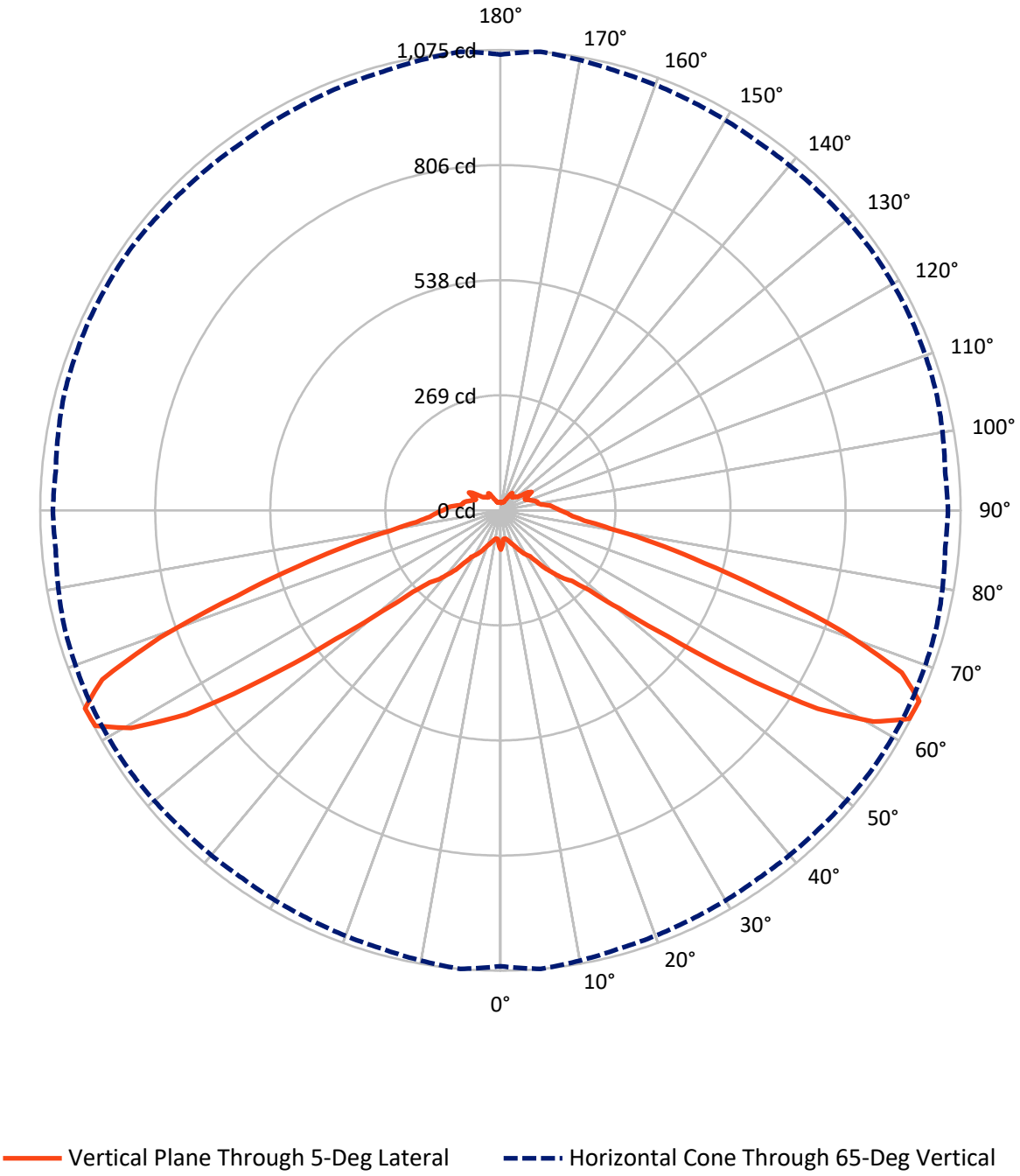
Luminous Intensity Polar Plot



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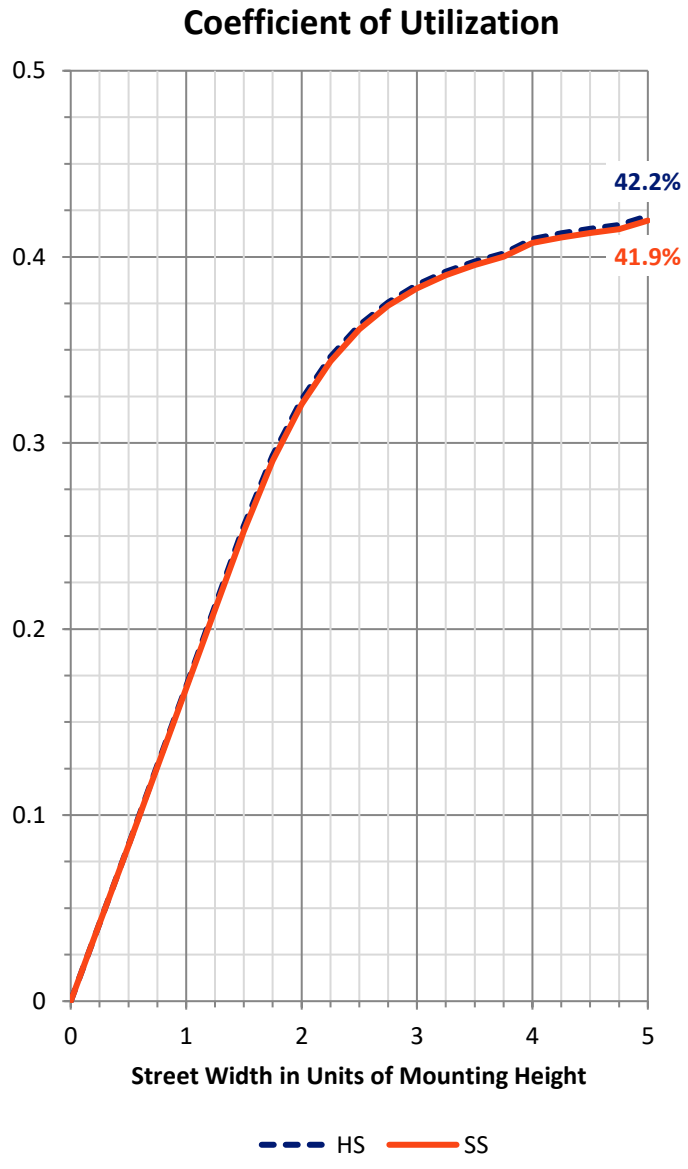
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1366.7	197.7	1564.4
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	1366.7	197.7	1564.4
	% Fixture	43.7	6.3	50.0
Total	Lumens	2733.5	395.4	3128.9
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.2
10°-20°	22.0	0.7
20°-30°	47.6	1.5
30°-40°	96.5	3.1
40°-50°	194.5	6.2
50°-60°	618.3	19.8
60°-70°	997.1	31.9
70°-80°	543.8	17.4
80°-90°	207.1	6.6
90°-100°	124.3	4.0
100°-110°	79.2	2.5
110°-120°	60.3	1.9
120°-130°	51.0	1.6
130°-140°	33.2	1.1
140°-150°	27.9	0.9
150°-160°	12.5	0.4
160°-170°	5.3	0.2
170°-180°	1.8	0.1
0°-90°	2733.5	87.4
0°-180°	3128.9	100.0



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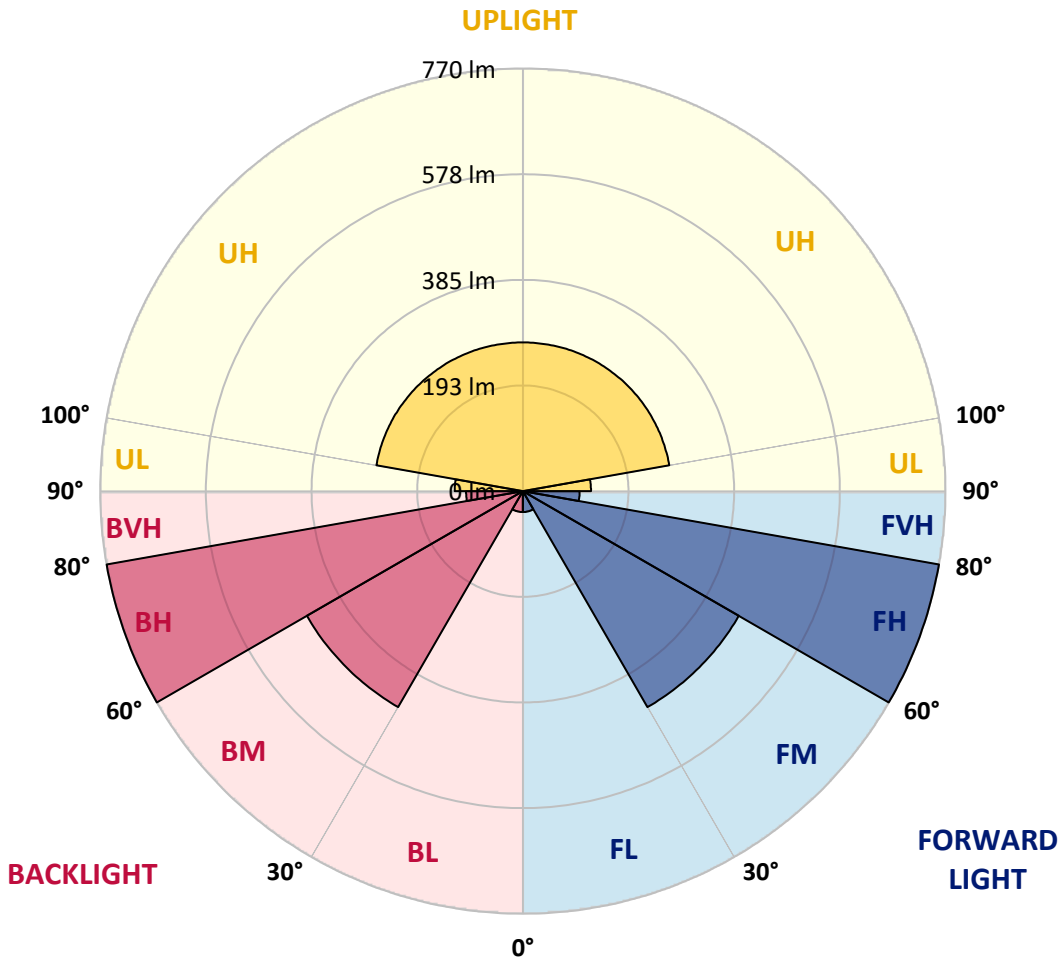
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	38.1	1.2			
FM	(30°-60°)	454.6	14.5			
FH	(60°-80°)	770.5	24.6			G1/1800
FVH	(80°-90°)	103.5	3.3			G2/225
BL	(0°-30°)	38.1	1.2	B0/110		
BM	(30°-60°)	454.6	14.5	B1/1000		
BH	(60°-80°)	770.5	24.6	B2/1000		G1/1800
BVH	(80°-90°)	103.5	3.3			G2/225
UL	(90°-100°)	124.3	4.0		U3/500	
UH	(100°-180°)	271.1	8.7		U3/500	

BUG Rating: B2-U3-G2
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2.5°	82.0	83.3	79.7	76.8	75.5	75.8	78.7	81.7	78.7	79.7	79.7
5°	68.0	68.3	68.3	67.6	68.6	66.7	64.4	64.4	66.7	69.3	69.3
7.5°	65.7	66.7	69.3	69.3	70.3	67.0	63.7	64.0	67.3	71.2	72.2
10°	67.6	67.6	67.0	67.6	69.9	69.6	66.0	64.4	66.7	70.6	71.9
12.5°	70.6	70.6	72.5	75.5	75.8	72.9	69.3	68.9	71.6	74.2	74.2
15°	74.8	75.2	76.1	75.8	76.8	75.8	74.8	75.5	77.1	77.1	77.1
17.5°	80.4	80.4	80.4	80.4	80.4	80.7	81.0	81.0	81.0	81.7	81.7
20°	86.6	86.6	86.3	85.9	85.9	86.3	86.6	86.6	86.6	87.2	87.2
22.5°	94.4	94.1	93.5	93.5	93.5	93.8	93.1	92.8	92.5	92.8	92.8
25°	103.6	103.6	102.9	101.9	101.9	101.6	100.6	100.3	100.0	100.6	100.3
27.5°	112.7	112.7	111.8	110.4	110.4	110.4	109.8	109.1	108.5	108.8	108.8
30°	121.2	120.6	120.2	119.3	118.9	119.3	118.6	118.6	117.3	117.0	117.6
32.5°	129.1	128.4	129.1	128.1	127.1	128.1	127.8	127.8	125.8	125.1	125.8
35°	150.6	149.0	150.3	148.0	146.7	147.0	147.7	149.0	147.0	146.1	146.4
37.5°	173.8	173.5	177.8	181.4	180.7	175.1	171.5	172.2	174.8	178.4	178.4
40°	195.4	194.8	195.7	194.4	194.4	193.8	193.4	195.1	189.8	188.5	187.6
42.5°	218.0	217.6	212.1	204.2	202.6	209.1	212.1	214.4	206.8	204.2	202.3
45°	240.2	235.6	234.6	232.0	229.4	233.6	233.3	234.9	231.3	231.0	229.4
47.5°	286.9	278.4	275.5	275.8	270.2	274.8	276.8	282.0	274.5	274.8	274.5
50°	371.2	360.4	365.3	362.1	356.2	361.7	361.4	370.9	358.5	363.0	361.1
52.5°	502.9	488.2	491.1	489.2	483.3	494.7	497.3	511.4	487.5	493.4	491.8
55°	693.4	677.4	683.9	660.4	654.2	676.7	685.2	701.6	669.9	673.1	671.5
57.5°	875.1	874.1	885.2	868.5	863.0	879.0	871.1	885.5	868.5	880.6	876.7
60°	998.9	1001.5	1012.6	1017.5	1007.7	1016.2	997.3	1008.1	1002.8	1020.5	1018.8
62.5°	1063.3	1071.8	1065.2	1065.6	1054.8	1061.3	1057.7	1063.9	1062.6	1064.3	1062.6
65°	1064.6	1075.0	1060.7	1054.1	1049.6	1052.2	1058.4	1058.4	1054.5	1042.7	1045.3
67.5°	995.0	1010.7	994.7	985.5	988.1	987.1	991.4	985.8	983.6	966.2	966.6
70°	823.8	848.9	825.4	816.9	823.8	828.0	827.7	823.1	819.5	798.0	804.2
72.5°	625.4	647.6	626.7	623.5	630.0	636.5	631.0	636.5	630.7	620.8	623.8
75°	472.2	491.1	491.1	503.5	505.5	501.9	486.5	492.8	496.7	497.0	499.9
77.5°	347.3	367.3	377.7	398.0	397.0	390.8	372.2	379.4	386.9	392.1	395.7
80°	247.0	262.1	277.4	291.8	293.8	288.5	277.1	281.3	285.9	289.5	291.5
82.5°	191.5	198.3	195.4	193.8	196.4	203.9	206.5	209.1	202.6	198.3	200.0
85°	167.0	167.6	172.9	176.5	177.4	177.4	174.8	176.8	178.4	182.7	182.7
87.5°	152.3	152.9	166.0	169.6	170.9	169.3	166.0	167.3	168.6	171.2	171.2
90°	135.3	137.2	150.3	153.3	154.6	151.9	151.0	151.9	150.3	151.3	151.3
92.5°	125.8	125.8	132.0	130.7	130.4	130.7	131.0	132.0	130.4	129.7	129.7
95°	115.0	116.7	115.0	116.3	116.0	114.4	113.7	114.4	113.4	113.4	114.0
97.5°	96.4	96.7	93.8	94.8	94.8	93.5	91.8	92.5	91.5	92.1	92.5
100°	90.2	89.2	84.3	83.7	83.3	82.3	81.4	81.4	81.0	80.7	81.0
102.5°	88.2	88.2	81.7	80.4	79.7	78.1	76.8	76.8	76.8	76.8	77.1
105°	80.7	83.0	78.1	77.1	76.1	74.2	72.2	71.9	72.5	71.9	72.9
107.5°	73.2	75.2	72.5	72.5	71.6	69.6	68.3	68.0	68.3	67.6	68.3
110°	68.9	69.9	67.0	67.0	66.3	64.7	64.4	64.0	64.0	63.1	63.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	63.7	*63.7*	61.4	60.8	60.8	59.8	59.5	59.1	59.1	59.1	59.5
115°	63.4	*63.1*	59.5	57.2	56.9	56.5	56.9	56.5	56.5	56.2	56.2
117.5°	77.4	*74.2*	62.1	56.5	56.5	56.9	58.2	57.2	54.9	54.9	54.6
120°	83.7	*84.3*	71.6	65.7	64.4	62.7	62.4	61.8	59.5	59.1	60.5
122.5°	73.8	*77.1*	69.3	67.0	65.7	63.7	62.4	62.1	62.1	60.5	62.7
125°	57.5	*60.5*	56.5	56.2	55.9	56.2	55.5	55.5	56.2	55.2	55.5
127.5°	49.3	*50.6*	49.0	49.0	48.7	48.4	47.7	48.0	47.7	48.0	48.4
130°	47.4	*48.4*	46.7	46.1	46.1	46.4	46.4	46.4	45.4	44.8	45.1
132.5°	47.1	*46.7*	44.1	42.8	42.8	45.1	46.1	46.1	43.8	42.2	42.2
135°	42.5	*42.8*	42.5	40.8	41.2	41.8	42.8	43.1	40.8	39.9	40.2
137.5°	40.8	*41.8*	42.2	41.5	41.5	40.8	40.5	40.8	40.2	40.5	40.5
140°	40.8	*41.2*	42.2	42.8	42.2	41.5	41.5	41.5	41.8	42.8	43.5
142.5°	41.8	*42.2*	41.8	41.5	42.5	44.1	45.4	45.4	44.4	43.8	44.1
145°	48.0	*49.0*	49.0	48.0	48.7	48.0	48.0	47.4	47.4	47.4	47.7
147.5°	45.7	*45.4*	46.1	47.1	46.1	45.7	45.7	46.1	46.7	47.1	47.4
150°	35.9	*35.0*	35.6	37.6	37.3	37.3	37.3	37.6	37.9	37.9	38.2
152.5°	28.4	*28.4*	29.1	29.1	29.4	29.4	29.1	29.1	29.1	29.4	29.4
155°	25.5	*25.2*	25.8	26.8	26.1	26.1	26.1	26.1	26.1	26.1	26.5
157.5°	22.2	*21.9*	21.9	22.2	22.2	22.2	22.2	22.5	22.5	22.2	22.5
160°	20.3	*20.3*	19.9	19.9	19.9	20.3	20.6	20.6	20.3	19.9	19.9
162.5°	19.3	*19.3*	18.6	18.3	18.3	18.6	19.3	19.3	18.6	18.3	18.3
165°	19.3	*19.0*	18.0	17.3	17.3	18.0	19.0	19.0	18.0	17.3	17.3
167.5°	19.0	*19.0*	18.3	17.6	17.6	18.3	18.6	19.0	18.6	18.0	17.6
170°	18.3	*18.3*	18.6	18.6	18.3	18.3	18.3	18.3	18.6	18.6	18.6
172.5°	19.0	*18.6*	19.0	19.3	19.3	19.0	18.6	18.6	19.0	19.3	19.3
175°	19.3	*19.3*	19.0	19.0	19.0	18.6	18.6	18.6	19.0	19.3	19.0
177.5°	17.3	*17.3*	17.0	17.3	17.3	17.3	17.0	17.3	17.3	17.3	17.6
180°	16.3	*16.3*	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3

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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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.03

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

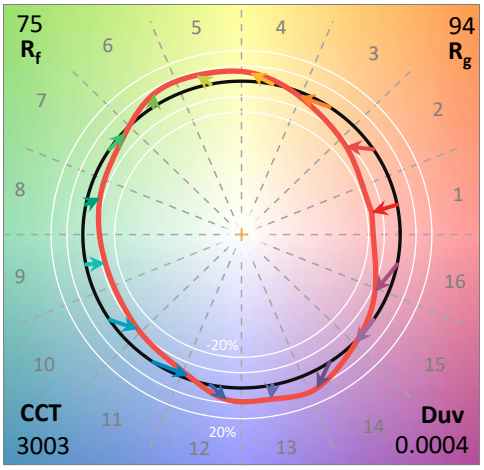
Test Information

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

Cooper Lighting Solutions Photometric Lab
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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

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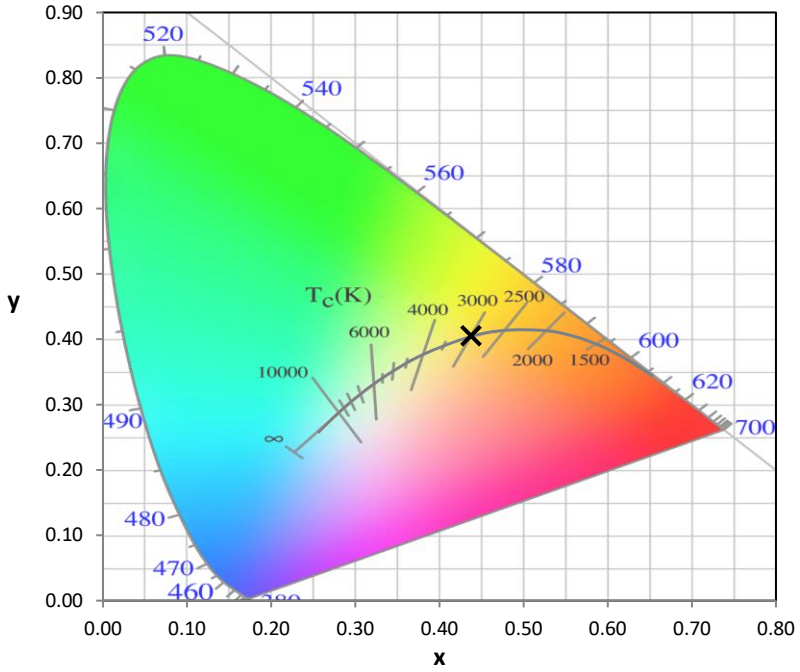
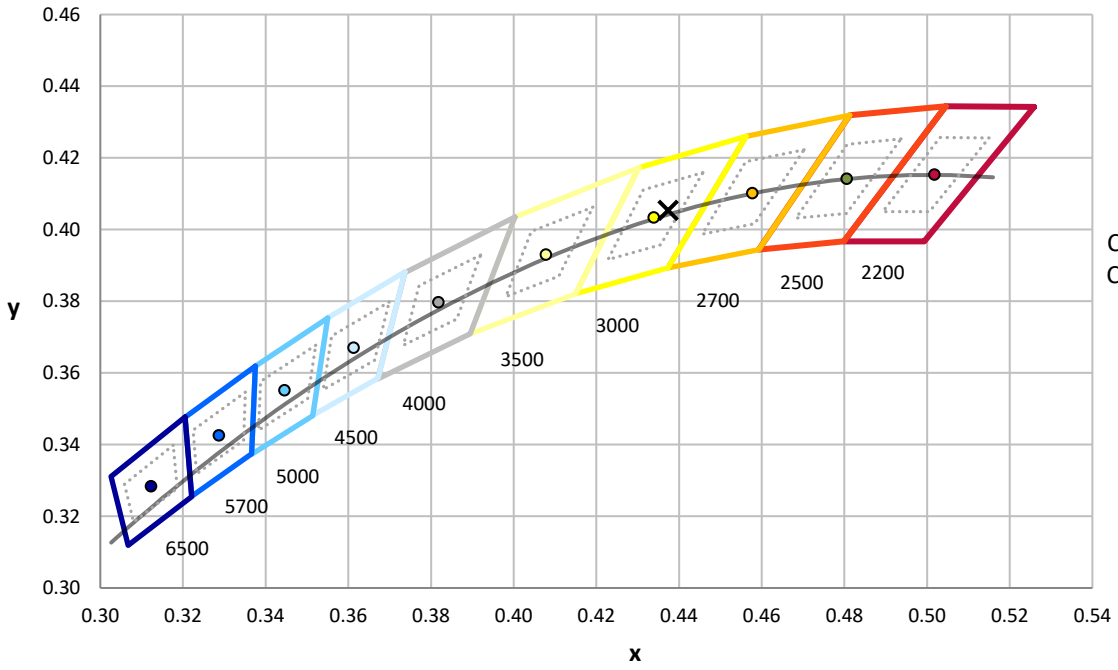
REPORT NUMBER: SP1-2406-133-4

CIE 1931 Chromaticity Diagram



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



CCT = 3003K
CIE x = 0.4373
CIE y = 0.4053
Duv = 0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

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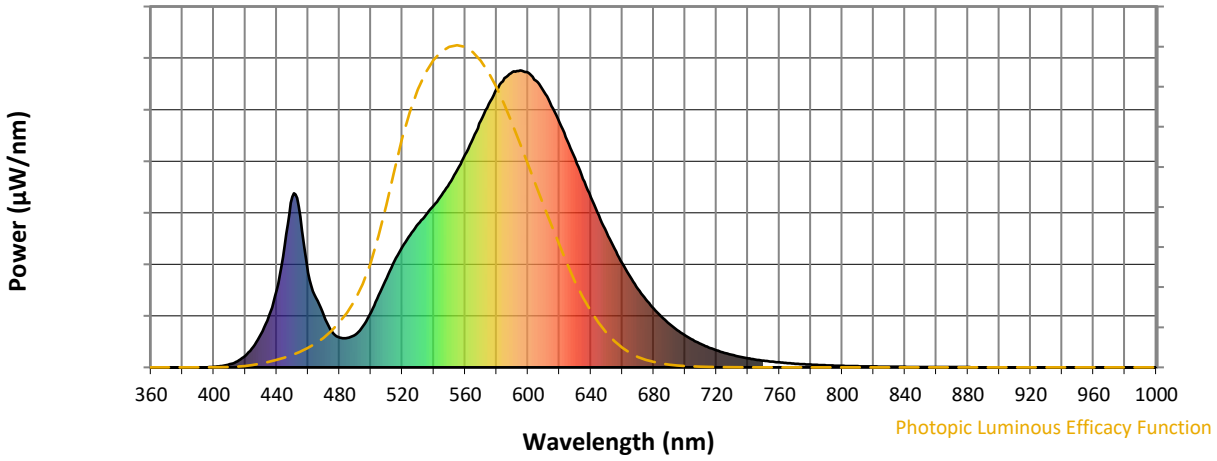
Photopic Flux vs. Wavelength



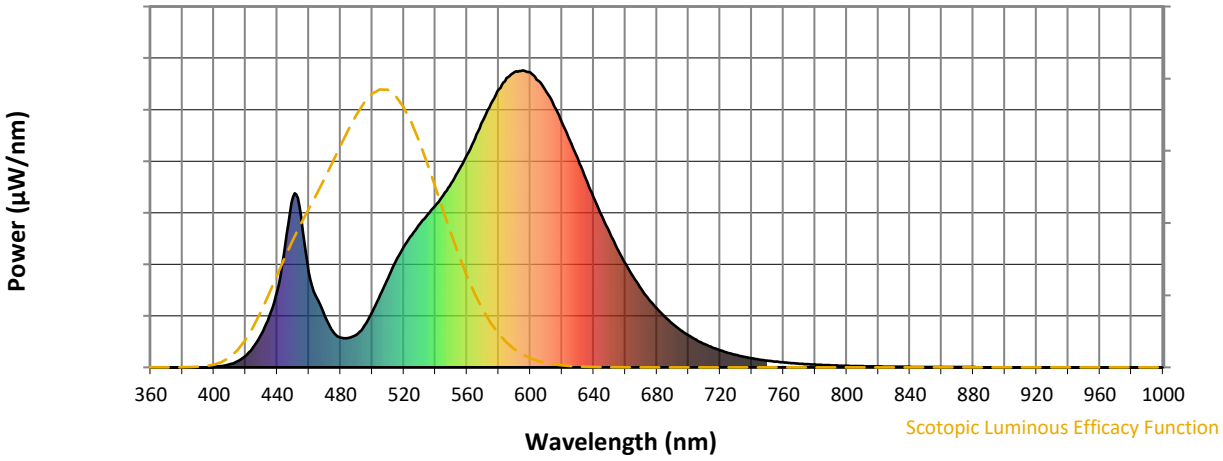
Photopic Lumens: NR

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			

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2406-133-4

Scotopic Flux vs. Wavelength



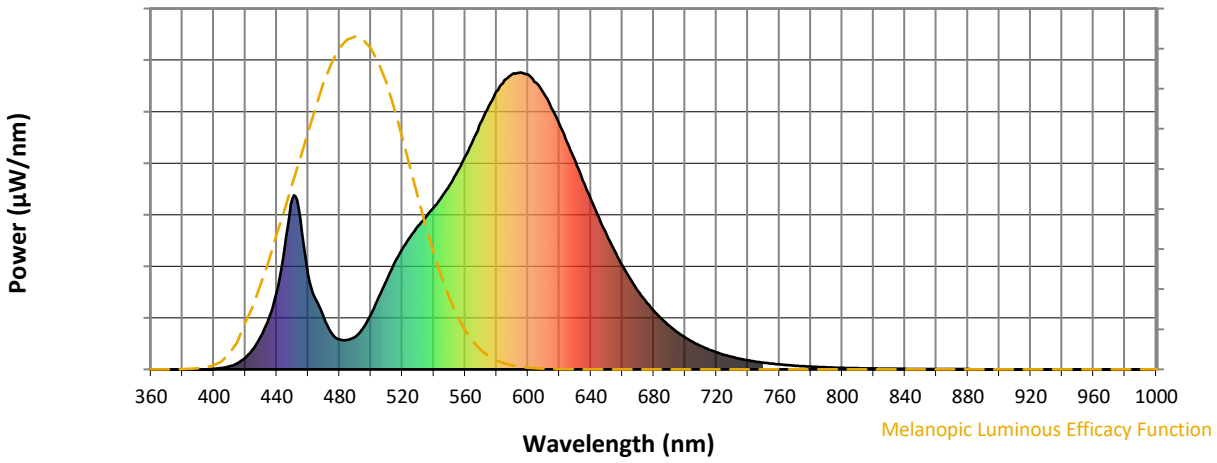
Scotopic Lumens: NR **S/P: 1.21**

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			

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2406-133-4

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			

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

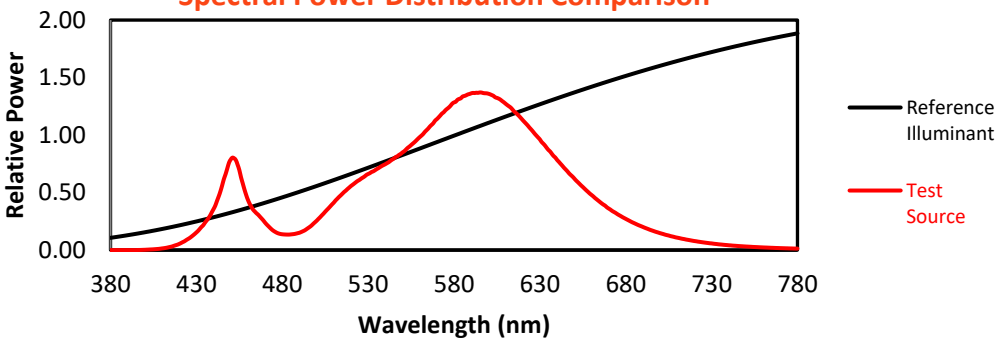
REPORT NUMBER: SP1-2406-133-4

TM-30-18

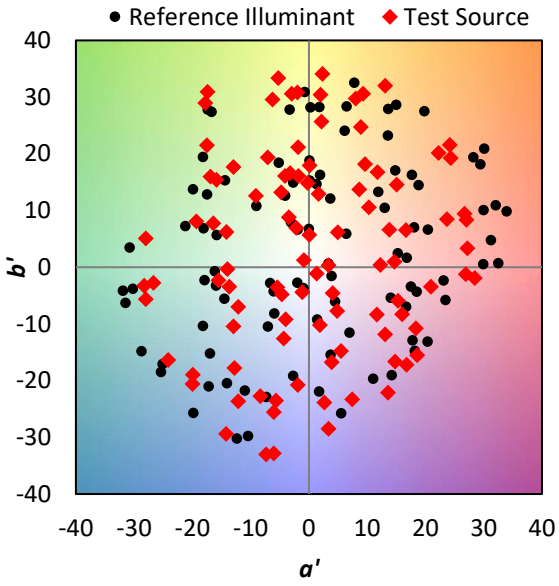
Summary

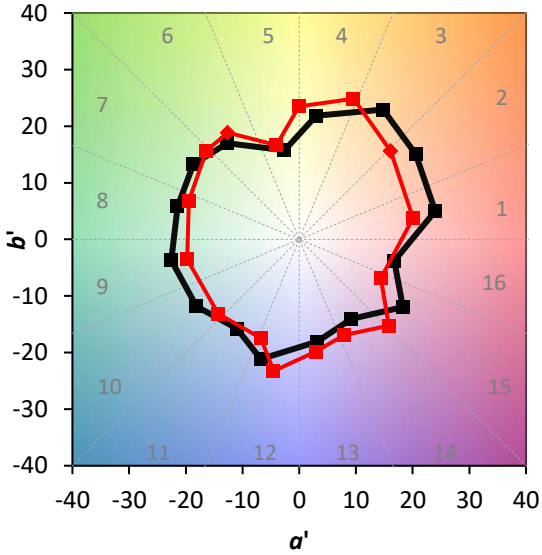
R_f = 75.2
R_g = 93.8
CIE R_a = 71.9
R_9 = -33.7

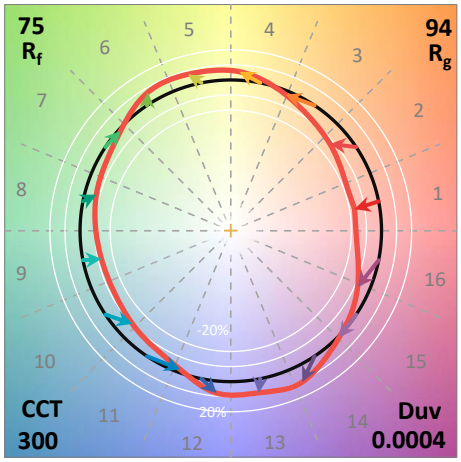
Spectral Power Distribution Comparison

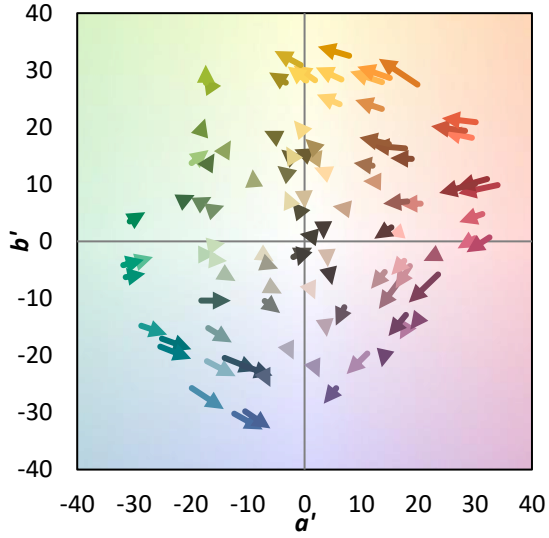


Color Vector Graphics









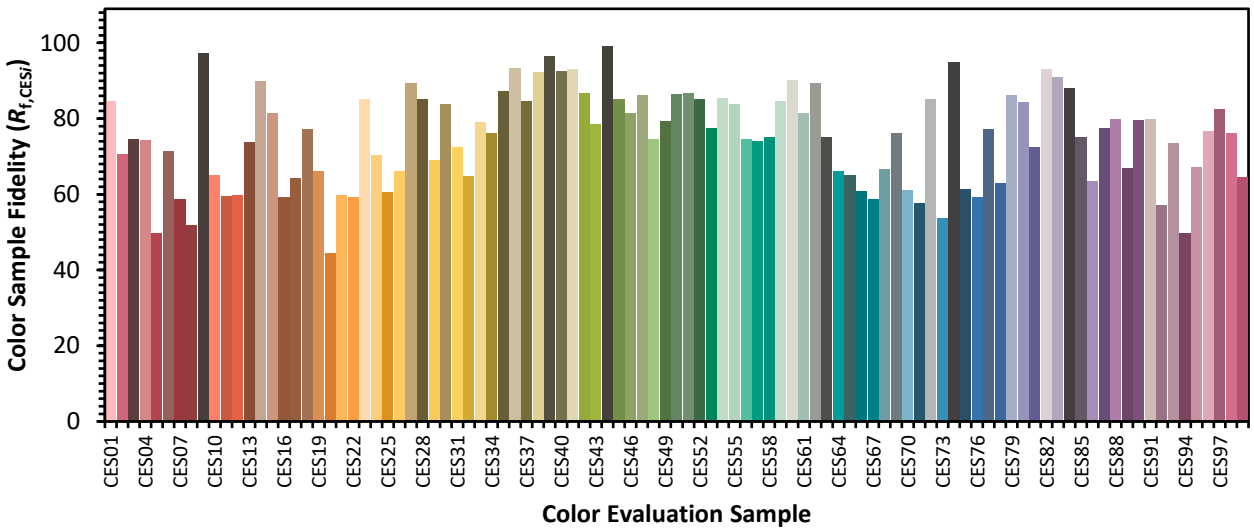
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2406-133-4

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	

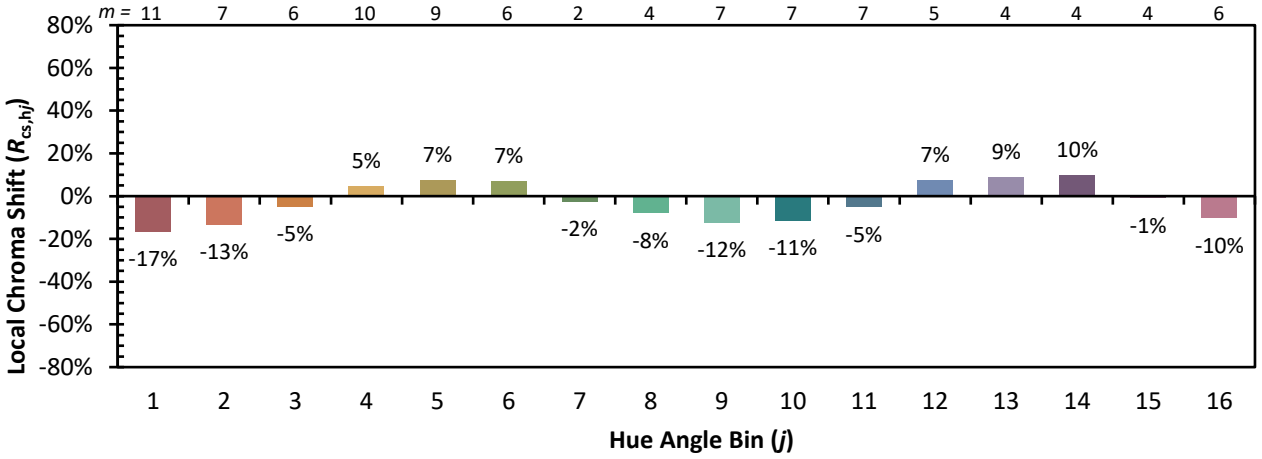


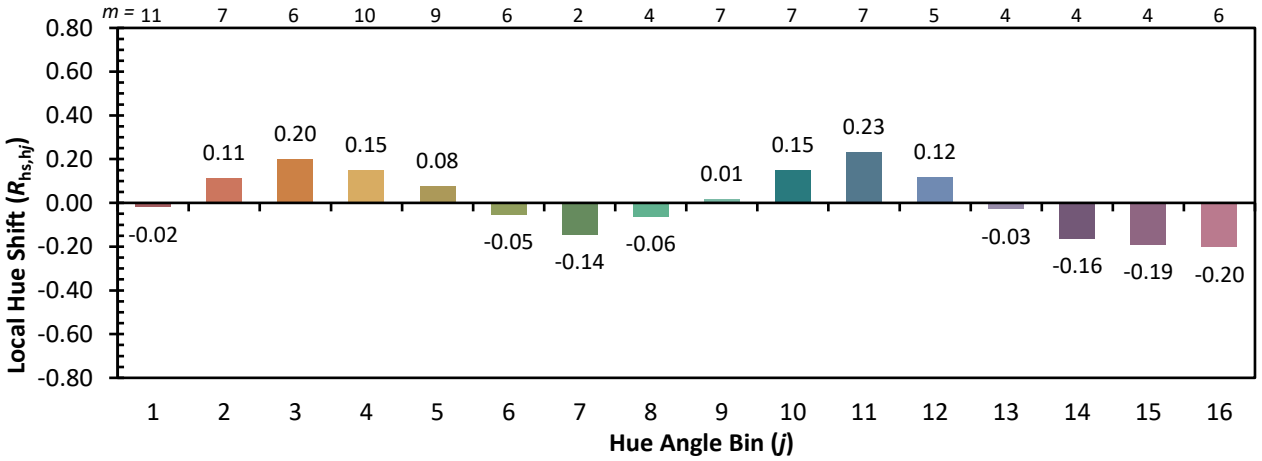
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

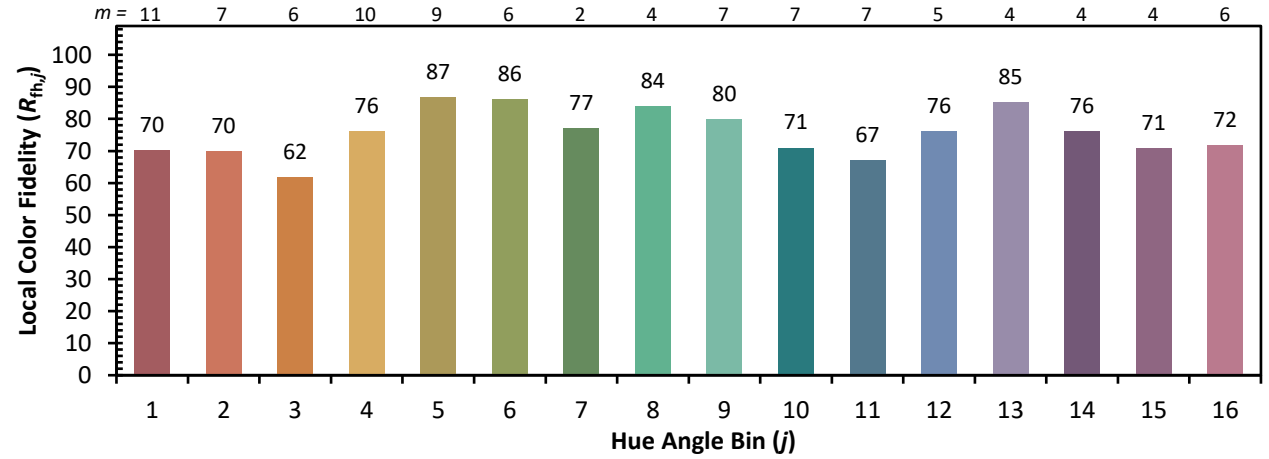
REPORT NUMBER: SP1-2406-133-4

TM-30-18

Color Rendition by Hue-Angle Bin





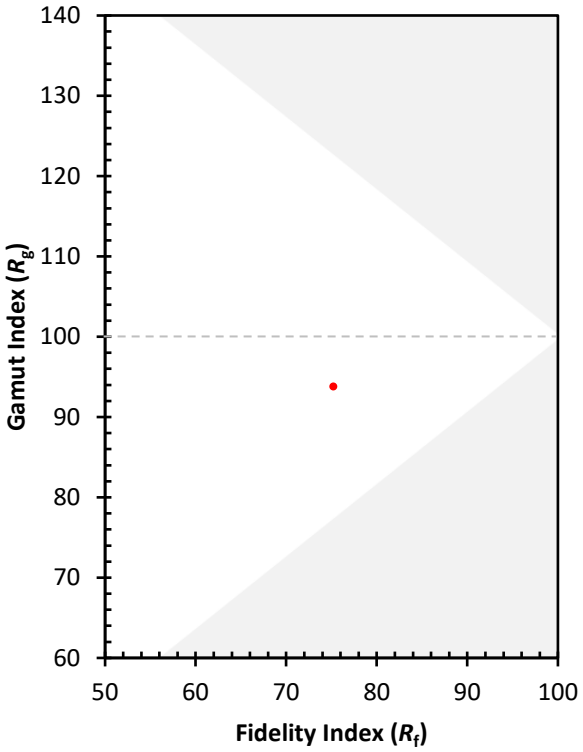


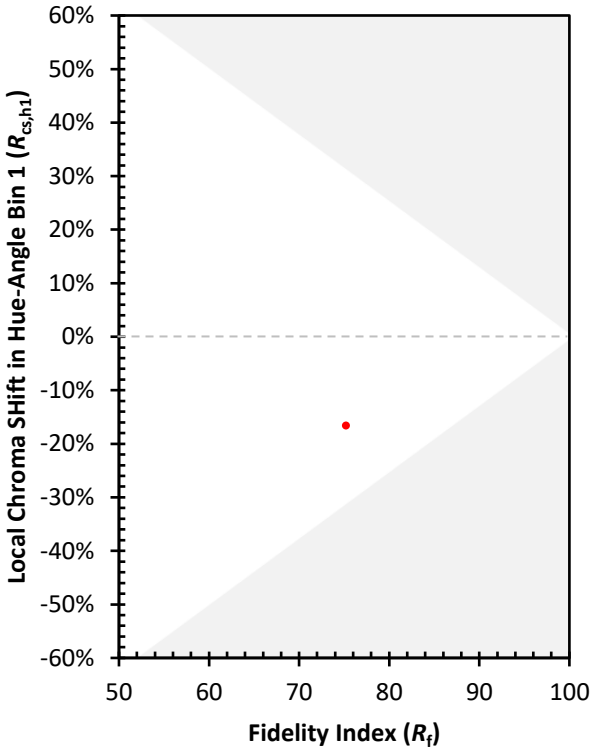
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons





(END OF REPORT)