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: P856260

Luminaire Tested: **FFX-CLB-40-730-U-PG**

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:	P856260
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/16/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-730-U-PG
Description:	FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6418.5 lumens
Efficiency:	N/A
Efficacy:	163.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.58' x H: 1.5')
IES Classification:	Type V - Short
BUG Rating:	B2 - U5 - G3

Input Watts (W):	39.3
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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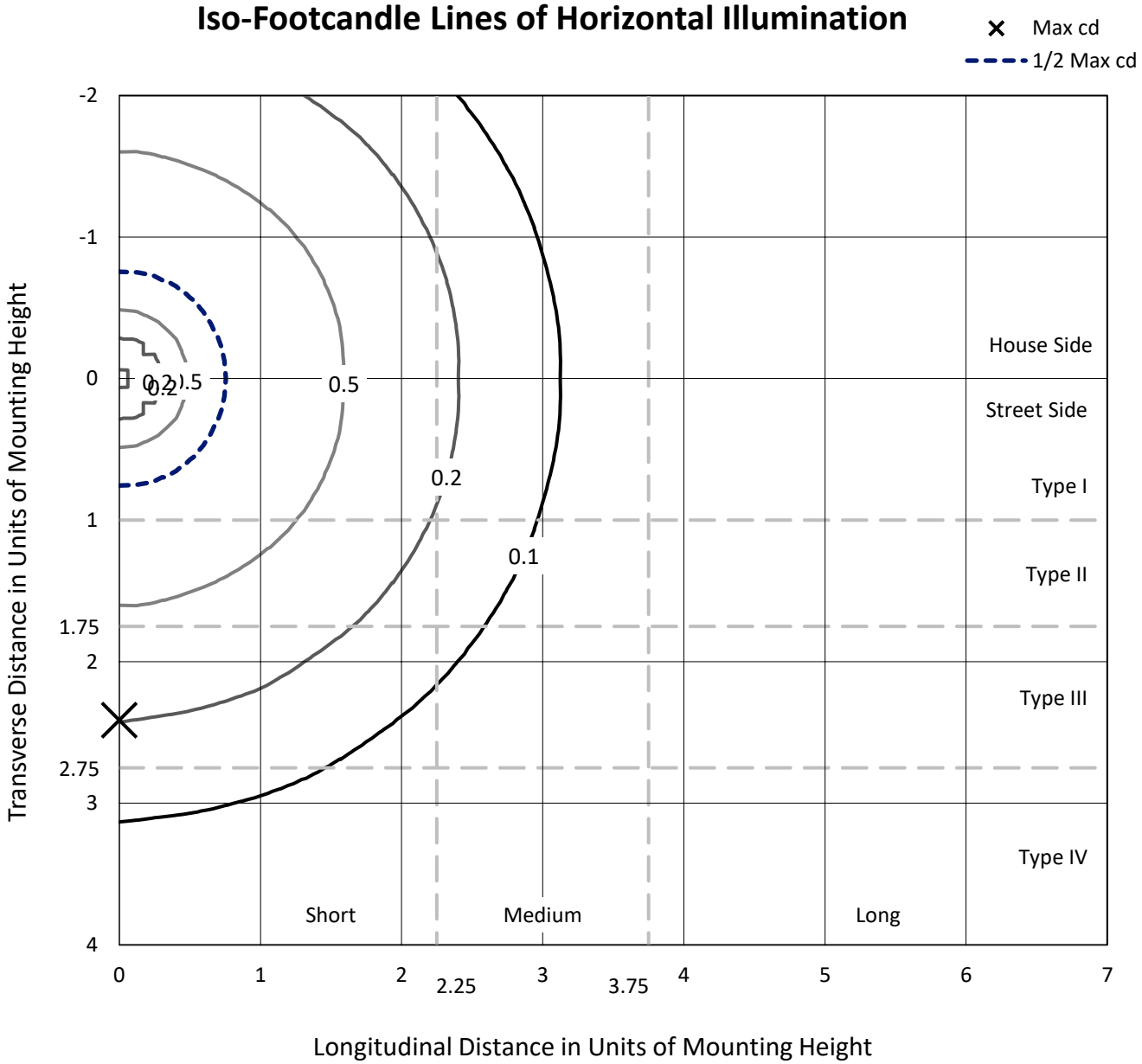
REPORT NUMBER: P856260
CATALOG NUMBER: FFX-CLB-40-730-U-PG

Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type V - Short - N/A

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REPORT NUMBER: P856260
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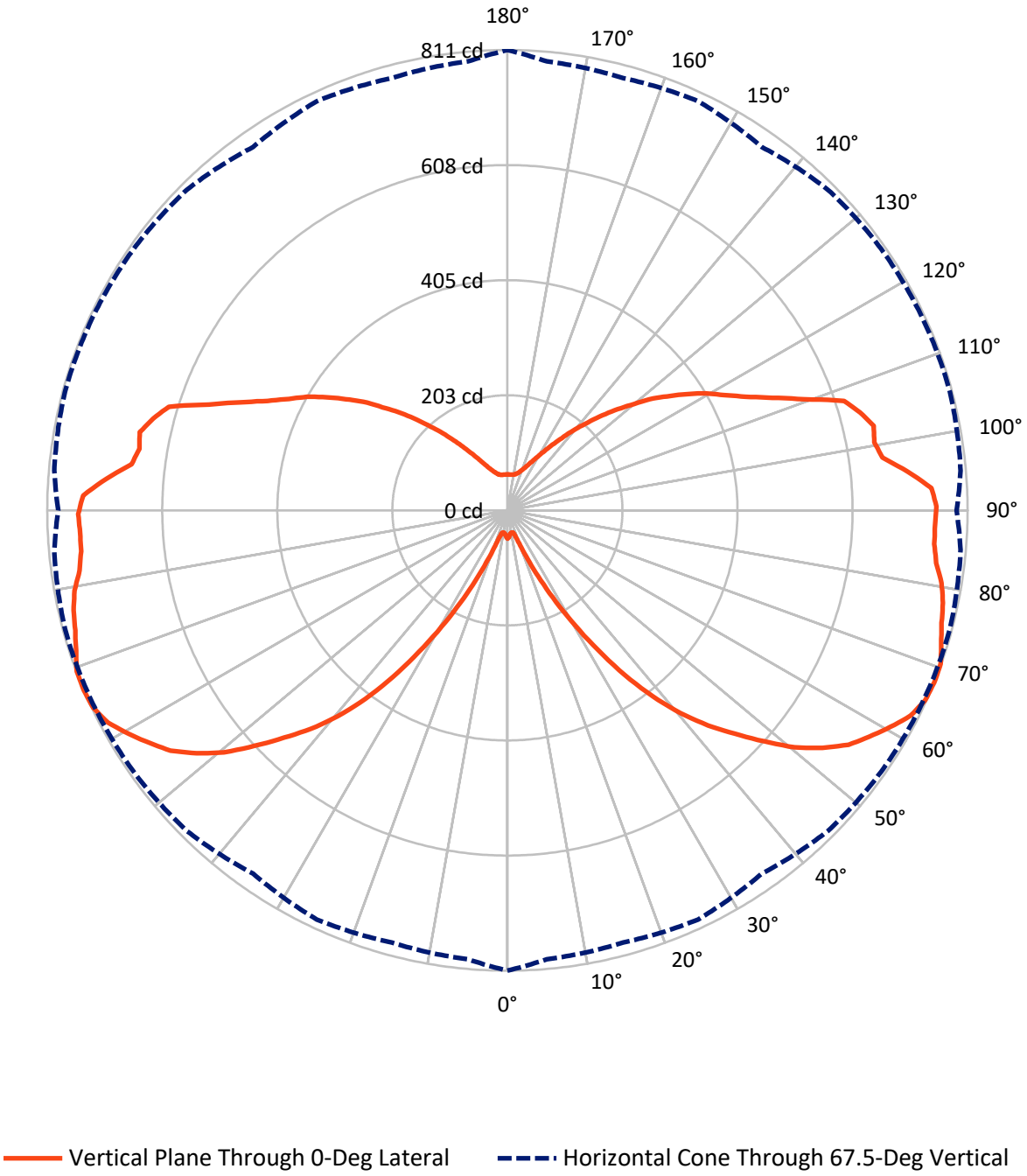
Luminous Intensity Polar Plot



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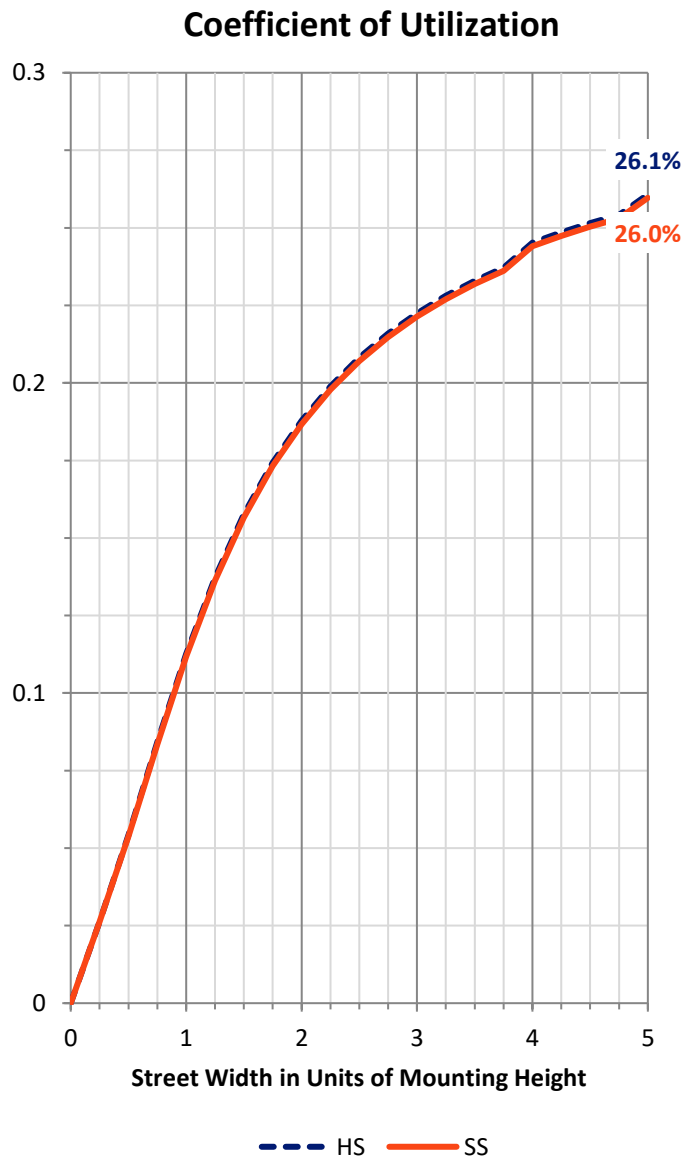
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1914.8	1294.5	3209.2
	% Fixture	29.8	20.2	50.0
Street Side	Lumens	1914.8	1294.5	3209.2
	% Fixture	29.8	20.2	50.0
Total	Lumens	3829.5	2588.9	6418.5
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	13.7	0.2
20°-30°	68.5	1.1
30°-40°	225.2	3.5
40°-50°	435.6	6.8
50°-60°	644.6	10.0
60°-70°	783.7	12.2
70°-80°	827.3	12.9
80°-90°	826.7	12.9
90°-100°	773.4	12.0
100°-110°	688.0	10.7
110°-120°	470.6	7.3
120°-130°	316.0	4.9
130°-140°	183.5	2.9
140°-150°	90.4	1.4
150°-160°	41.8	0.7
160°-170°	19.3	0.3
170°-180°	6.0	0.1
0°-90°	3829.5	59.7
0°-180°	6418.5	100.0



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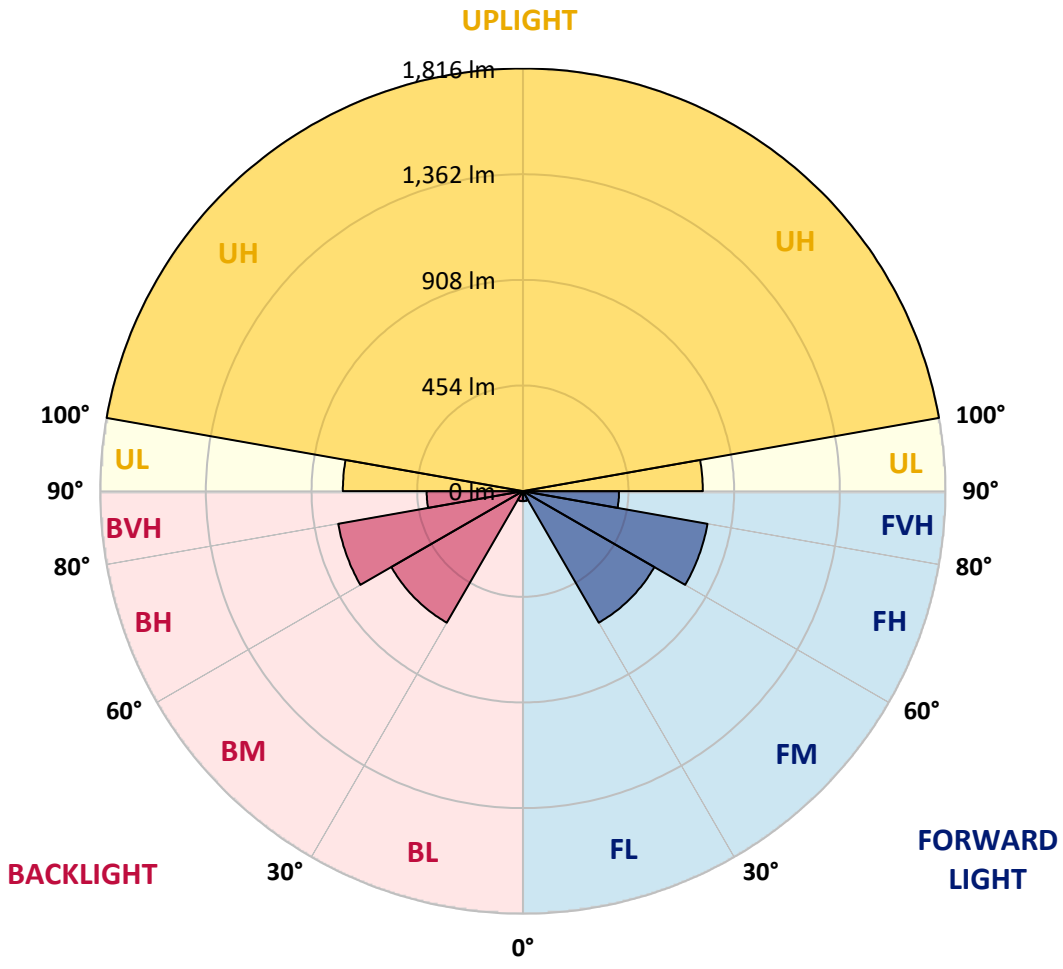
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	43.2	0.7			
FM	(30°-60°)	652.7	10.2			
FH	(60°-80°)	805.5	12.5			G1/1800
FVH	(80°-90°)	413.3	6.4			G3/500
BL	(0°-30°)	43.2	0.7	B0/110		
BM	(30°-60°)	652.7	10.2	B1/1000		
BH	(60°-80°)	805.5	12.5	B2/1000		G1/1800
BVH	(80°-90°)	413.3	6.4			G3/500
UL	(90°-100°)	773.4	12.0		U4/1000	
UH	(100°-180°)	1815.6	28.3		U5	

BUG Rating: B2-U5-G3
Type V Short



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REPORT NUMBER: P856260
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2.5°	47.8	47.4	47.0	46.6	47.0	47.4	48.2	48.6	48.6	48.6	48.6
5°	43.3	43.7	44.1	44.5	44.5	44.5	44.5	44.9	45.3	45.3	45.3
7.5°	40.9	40.9	41.3	42.5	42.9	42.5	42.5	42.9	41.7	40.5	40.1
10°	39.7	39.7	40.1	40.5	40.9	41.7	42.1	42.1	42.1	42.1	41.7
12.5°	40.1	39.7	40.1	40.5	41.3	41.7	40.9	40.9	41.7	42.5	42.9
15°	42.1	41.7	41.7	42.5	42.9	42.9	42.1	42.1	42.5	43.3	43.3
17.5°	51.0	50.2	49.8	50.2	49.8	50.2	49.8	50.6	50.6	50.2	49.8
20°	69.6	68.8	67.6	67.2	67.6	68.8	69.2	70.4	69.2	68.8	67.2
22.5°	98.8	97.6	96.8	96.8	98.0	98.8	98.4	100.0	99.2	98.8	97.2
25°	136.0	135.2	135.6	137.7	139.7	138.5	135.2	137.7	137.7	137.3	136.8
27.5°	182.6	179.8	181.0	186.2	187.9	184.6	181.0	183.8	185.0	185.4	185.4
30°	235.6	233.6	233.2	238.9	240.9	238.1	235.6	238.9	238.9	240.1	240.1
32.5°	293.1	291.9	289.9	293.1	296.4	295.6	295.6	298.0	297.2	298.4	298.8
35°	356.3	353.9	349.8	350.2	353.9	354.3	357.1	358.7	357.9	357.5	357.5
37.5°	415.8	412.6	408.9	406.9	411.4	410.9	417.4	417.4	415.8	416.2	416.2
40°	469.7	467.6	464.8	459.1	467.6	466.0	473.7	473.7	469.2	470.5	469.7
42.5°	517.8	517.8	514.6	506.1	515.0	513.4	523.5	523.5	517.4	517.0	515.8
45°	561.2	563.2	561.6	553.9	557.1	558.3	568.0	566.0	561.2	561.2	559.1
47.5°	607.7	609.7	604.1	596.0	599.6	601.6	610.5	609.7	606.9	603.3	603.3
50°	656.3	656.7	645.4	635.6	638.9	649.4	655.9	657.5	651.4	642.9	642.5
52.5°	694.8	697.2	686.3	675.7	678.2	690.3	697.6	698.0	690.3	678.2	681.8
55°	728.8	731.2	720.3	711.0	715.8	722.3	730.8	725.9	726.3	713.4	719.5
57.5°	751.8	759.9	741.7	739.7	744.2	751.8	755.5	754.3	756.7	744.6	746.6
60°	774.9	778.6	763.2	766.0	760.8	774.5	777.4	780.2	773.7	765.2	765.2
62.5°	796.8	787.9	777.0	783.8	769.7	787.1	790.3	793.6	786.7	778.6	780.2
65°	808.1	791.9	782.6	791.1	777.4	793.1	798.4	799.6	798.4	790.7	787.1
67.5°	810.6	793.6	787.9	794.8	781.0	798.4	803.3	805.7	806.9	801.2	791.1
70°	809.7	791.5	786.7	793.1	784.2	800.4	800.8	804.5	806.1	808.5	797.2
72.5°	798.8	783.0	781.8	787.5	779.4	789.9	790.3	794.8	792.3	800.0	794.4
75°	789.9	779.4	781.4	780.2	772.1	778.2	779.8	785.0	776.1	783.4	788.3
77.5°	784.2	778.6	783.4	777.0	768.4	772.5	774.9	781.0	767.6	773.7	787.9
80°	775.3	773.7	779.8	770.1	762.8	766.4	770.5	775.7	761.2	765.2	785.5
82.5°	760.8	762.0	767.6	756.3	751.4	755.5	760.4	768.4	753.5	755.9	777.4
85°	754.3	759.5	762.4	751.0	745.4	747.8	753.1	761.6	745.8	749.4	771.3
87.5°	753.5	759.9	762.0	752.3	747.4	751.0	753.5	765.6	748.6	753.1	775.3
90°	755.9	758.3	759.5	751.0	747.0	752.7	753.1	768.0	751.0	752.3	772.1
92.5°	747.8	748.2	750.6	742.9	742.5	746.6	745.8	758.3	739.7	736.9	753.9
95°	708.5	705.3	710.6	706.5	715.0	721.1	728.0	743.8	734.4	736.9	751.4
97.5°	666.8	667.6	669.3	662.8	661.6	664.0	666.8	674.9	672.1	674.5	688.3
100°	657.1	659.9	659.5	656.3	642.9	640.1	634.0	625.5	614.2	615.8	617.8
102.5°	662.0	669.7	670.9	675.3	675.3	673.3	677.8	674.1	676.1	687.9	681.4
105°	644.6	653.5	659.1	664.0	673.3	681.0	701.6	714.2	724.3	738.5	736.5
107.5°	623.5	628.0	632.0	632.0	629.6	628.4	639.7	641.7	638.9	642.5	642.9
110°	557.9	557.5	561.6	559.9	561.2	554.7	557.9	568.8	566.4	573.7	574.9

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Scaled Data Report

REPORT NUMBER: P856260
CATALOG NUMBER: FFX-CLB-40-730-U-PG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	*506.9*	506.9	509.7	505.7	506.1	500.8	502.9	510.1	510.5	516.6	519.9
115°	*464.0*	463.2	467.2	464.0	460.3	459.1	461.1	465.6	466.8	470.9	477.3
117.5°	*432.0*	428.0	431.2	431.6	433.2	430.0	434.8	437.7	439.3	442.5	447.8
120°	*405.7*	401.6	402.8	406.9	411.8	404.9	410.1	412.6	413.8	415.0	417.4
122.5°	*375.7*	372.9	371.7	379.8	382.6	376.5	379.4	383.0	385.0	387.1	389.1
125°	*345.4*	342.9	341.7	349.0	351.8	347.0	351.0	356.3	355.5	359.9	355.9
127.5°	*317.8*	317.0	315.4	319.0	321.1	320.7	324.3	330.8	327.9	332.0	327.5
130°	*285.0*	288.3	285.8	290.3	290.7	293.9	295.2	301.2	298.4	299.2	296.4
132.5°	*258.3*	259.5	258.3	259.9	261.1	261.1	264.4	270.9	266.4	266.0	263.6
135°	*231.2*	231.6	230.0	232.4	233.2	231.2	234.4	239.3	236.9	235.6	235.6
137.5°	*204.5*	204.1	204.5	205.3	206.1	205.7	207.3	210.9	210.1	208.5	210.5
140°	*181.8*	180.6	181.0	181.4	181.0	181.0	182.6	185.8	185.8	183.8	185.8
142.5°	*159.1*	158.7	158.7	158.7	158.7	159.5	161.1	161.9	162.8	161.1	160.7
145°	*140.1*	139.7	139.3	139.3	139.3	139.7	141.3	140.9	142.5	140.9	139.7
147.5°	*123.1*	123.5	122.7	122.3	121.9	123.1	123.5	124.3	125.1	124.3	123.1
150°	*109.3*	108.9	108.9	108.1	108.1	109.3	108.9	109.7	110.5	110.1	109.7
152.5°	*97.2*	97.2	97.2	96.4	96.8	97.6	97.6	97.6	98.4	98.4	98.0
155°	*87.5*	87.5	87.5	87.0	87.0	87.9	87.9	87.9	88.3	88.3	88.3
157.5°	*80.2*	80.2	79.8	79.8	79.8	80.2	79.8	79.8	80.2	80.2	80.2
160°	*74.5*	74.5	74.1	74.1	73.7	74.1	73.7	73.7	74.1	74.1	74.1
162.5°	*70.0*	70.0	69.6	69.6	69.6	69.6	69.6	69.2	69.2	69.6	69.2
165°	*66.8*	66.8	66.8	66.8	66.8	66.8	66.8	66.4	66.4	66.4	66.4
167.5°	*64.8*	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
170°	*63.6*	63.6	63.6	64.0	64.0	64.0	63.6	63.6	64.0	64.0	63.6
172.5°	*63.2*	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
175°	*63.2*	63.2	63.2	63.2	63.2	63.2	62.8	63.2	63.2	63.2	63.2
177.5°	*63.2*	62.8	62.8	63.2	63.2	62.8	62.8	62.8	62.8	62.8	62.8
180°	*63.2*	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2

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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

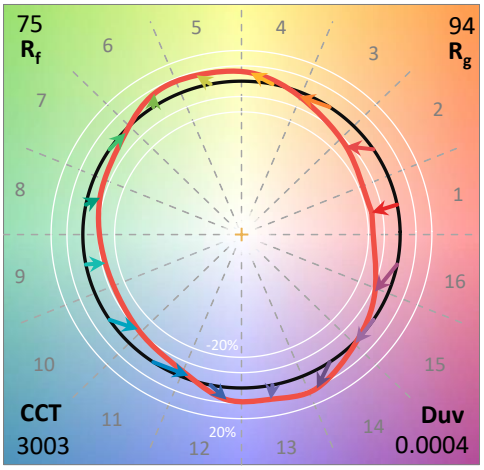
Test Information

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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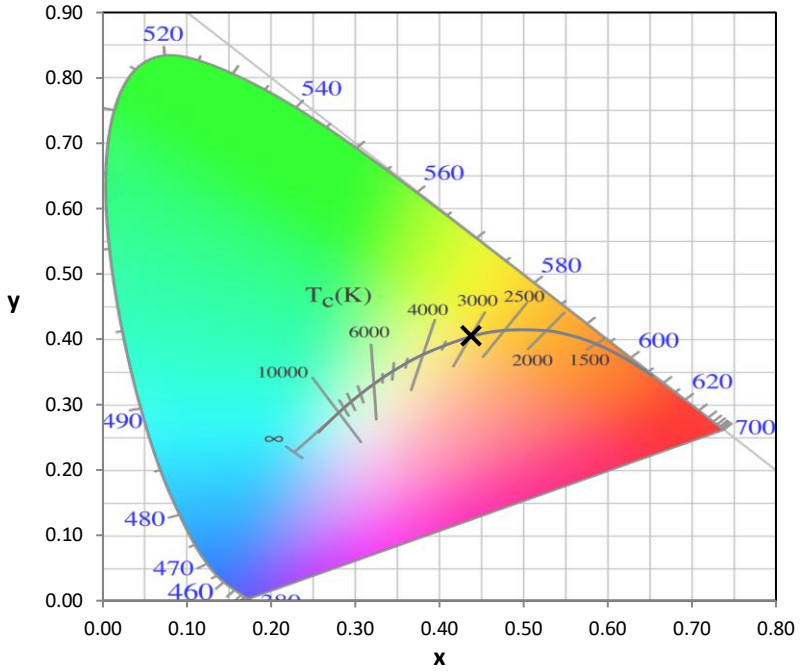
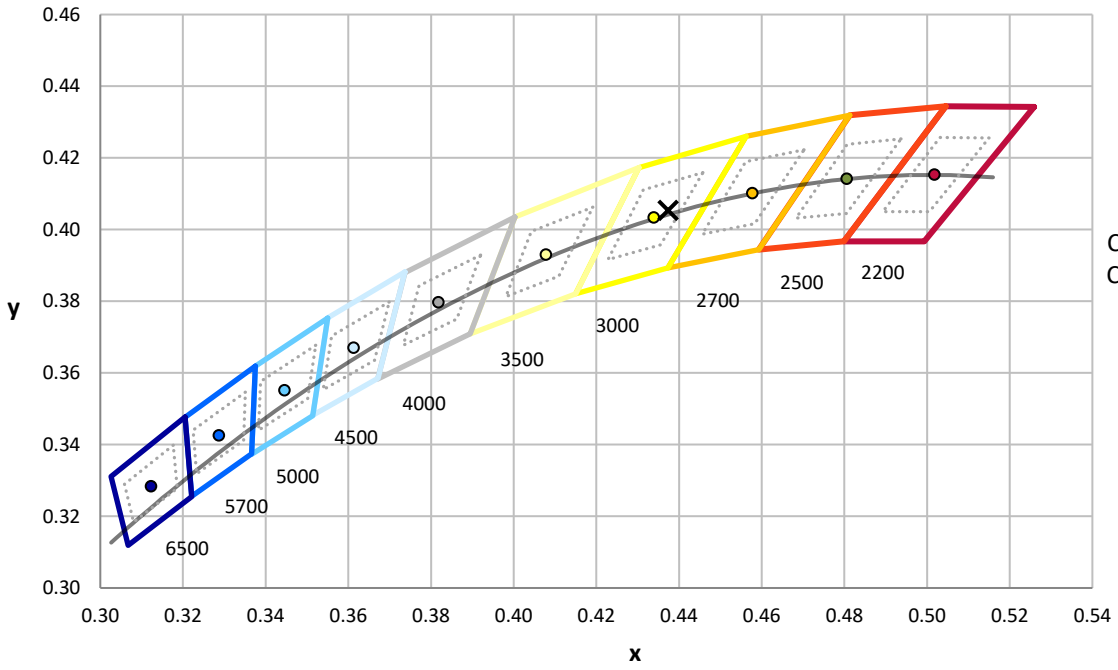
REPORT NUMBER: SP1-2406-133-4

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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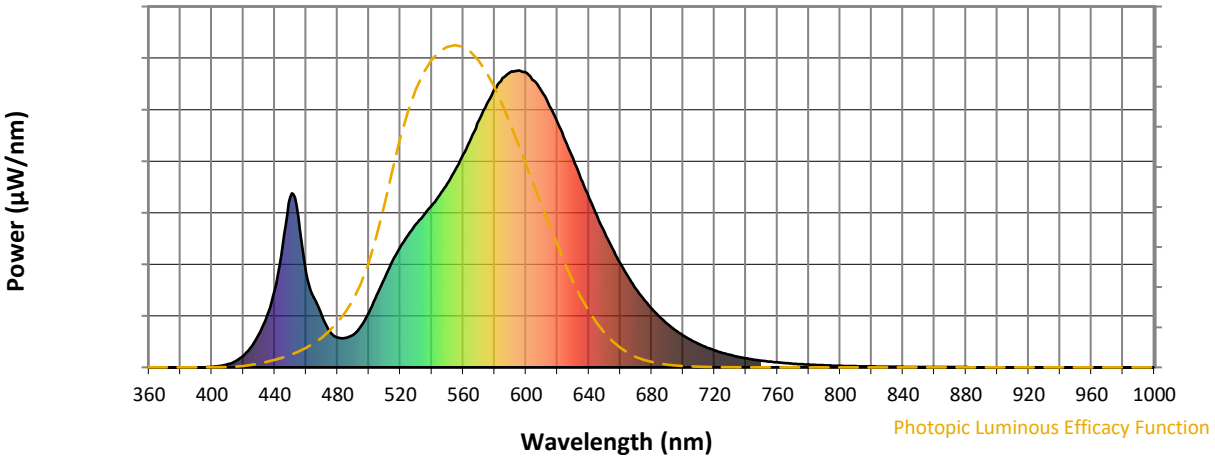
Photopic Flux vs. Wavelength



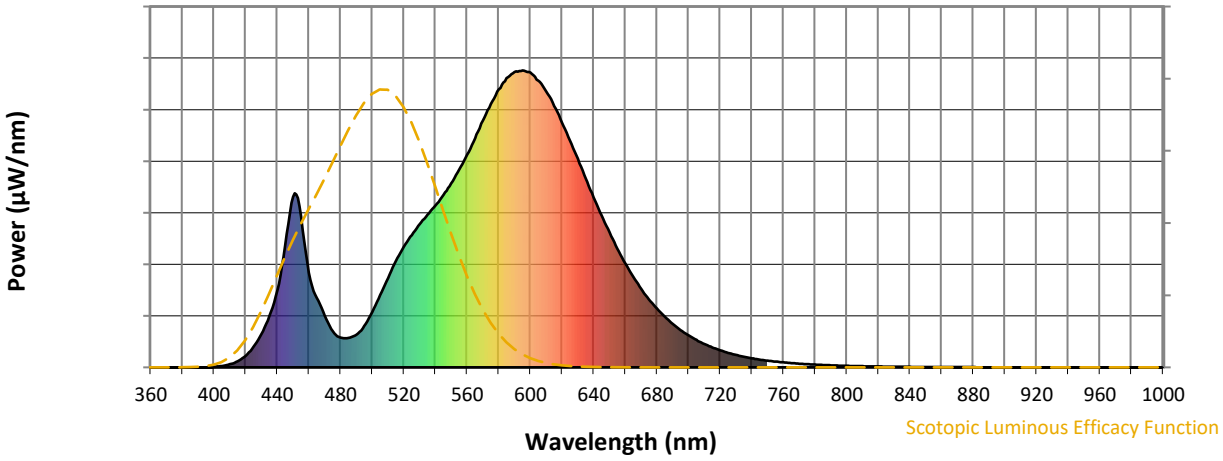
Photopic Lumens: NR

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



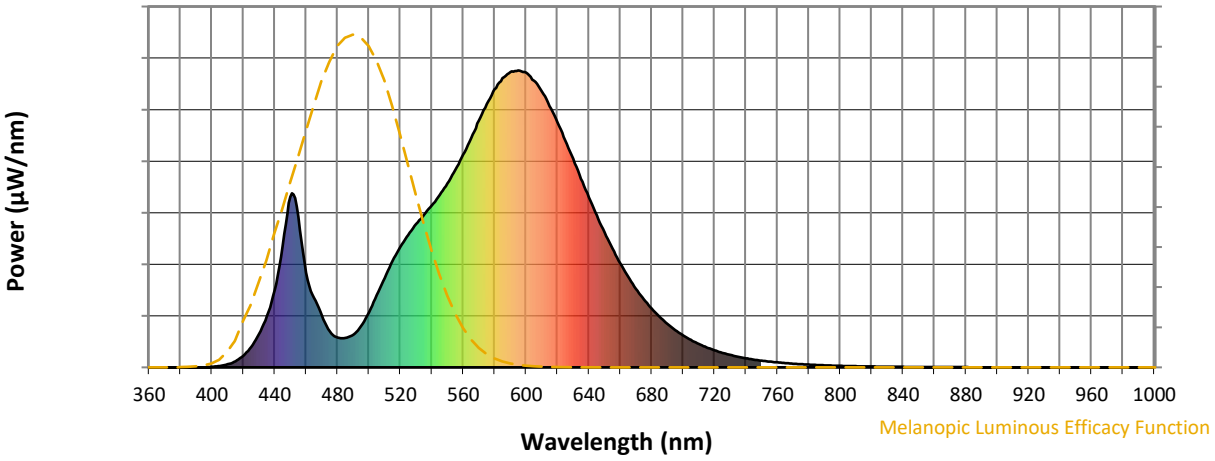
Scotopic Lumens: NR **S/P: 1.21**

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

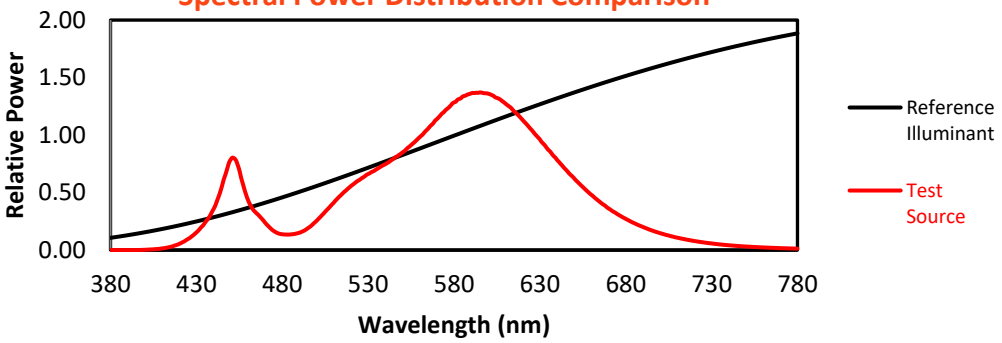
REPORT NUMBER: SP1-2406-133-4

TM-30-18

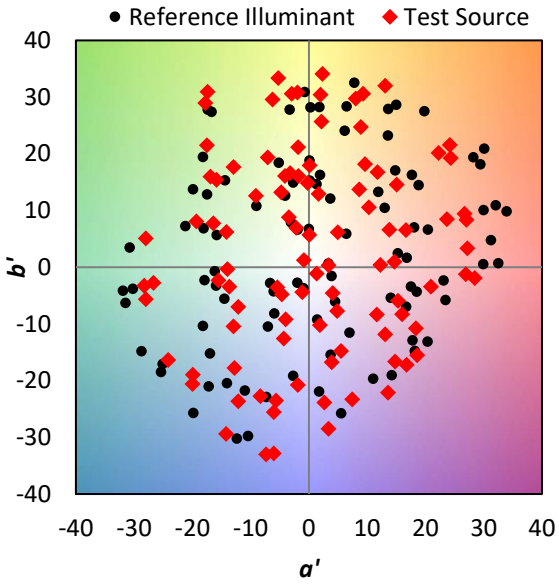
Summary

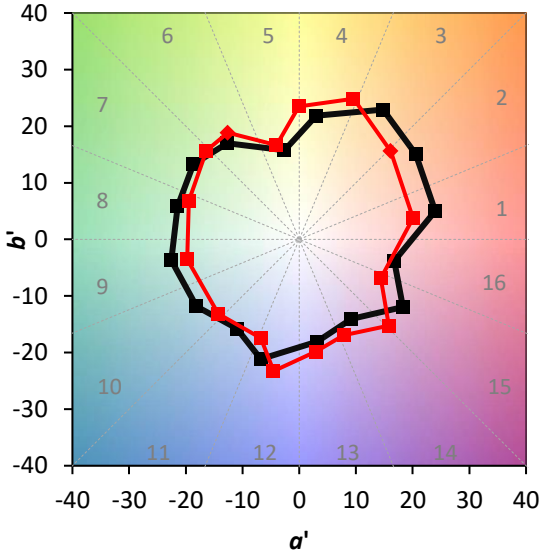
R_f = 75.2
R_g = 93.8
CIE R_a = 71.9
R_9 = -33.7

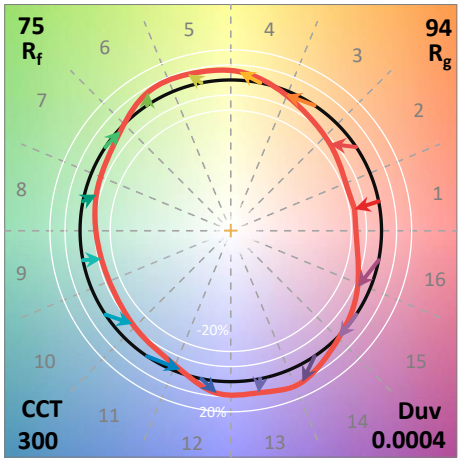
Spectral Power Distribution Comparison

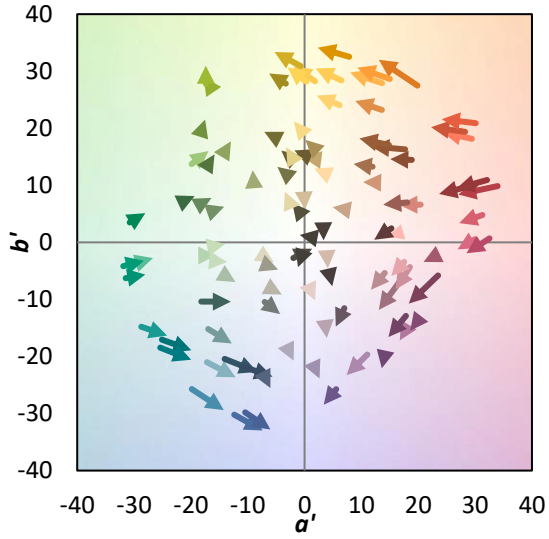


Color Vector Graphics









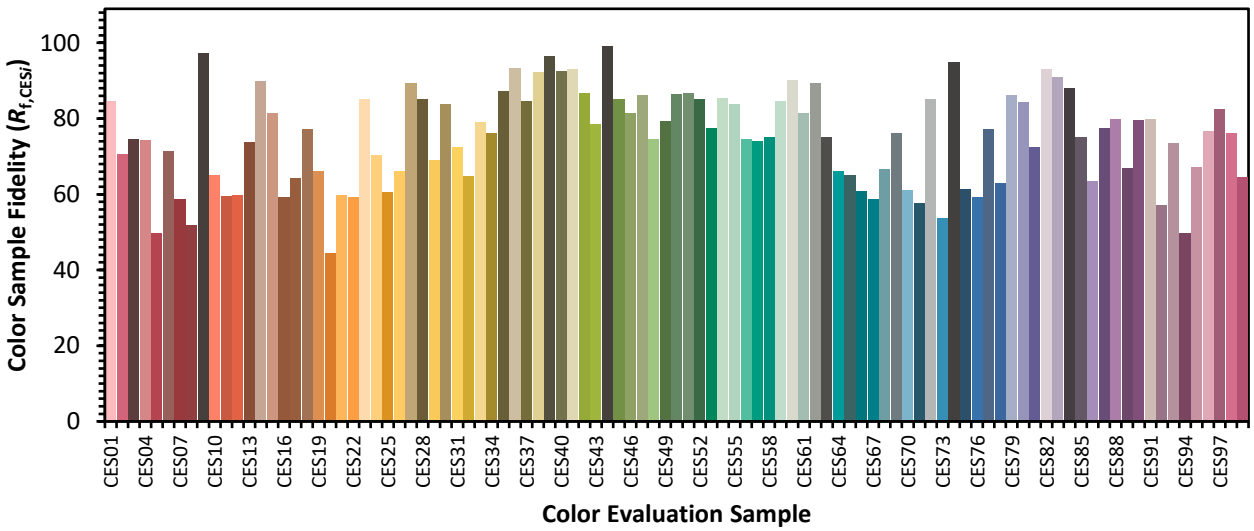
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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	

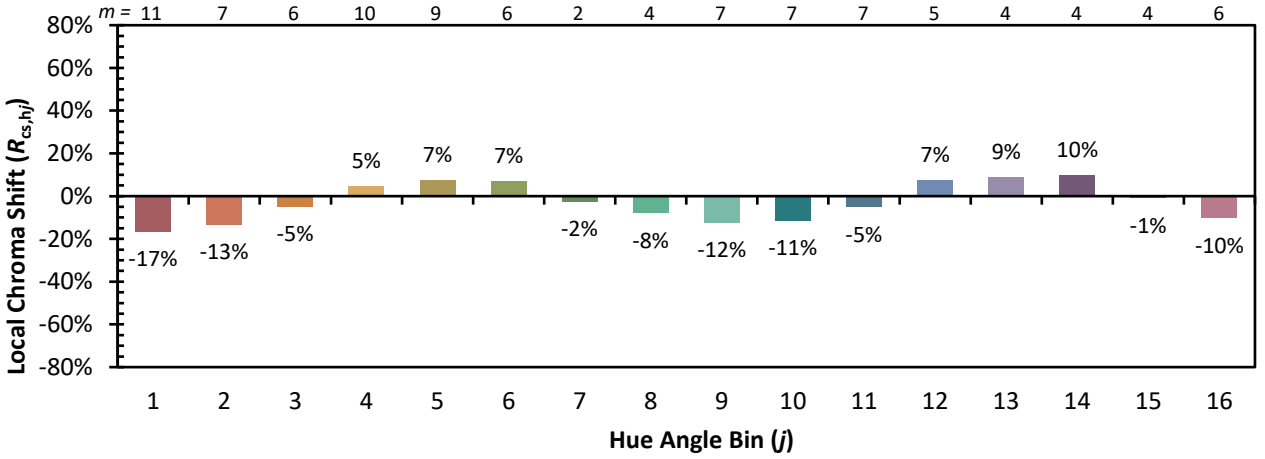


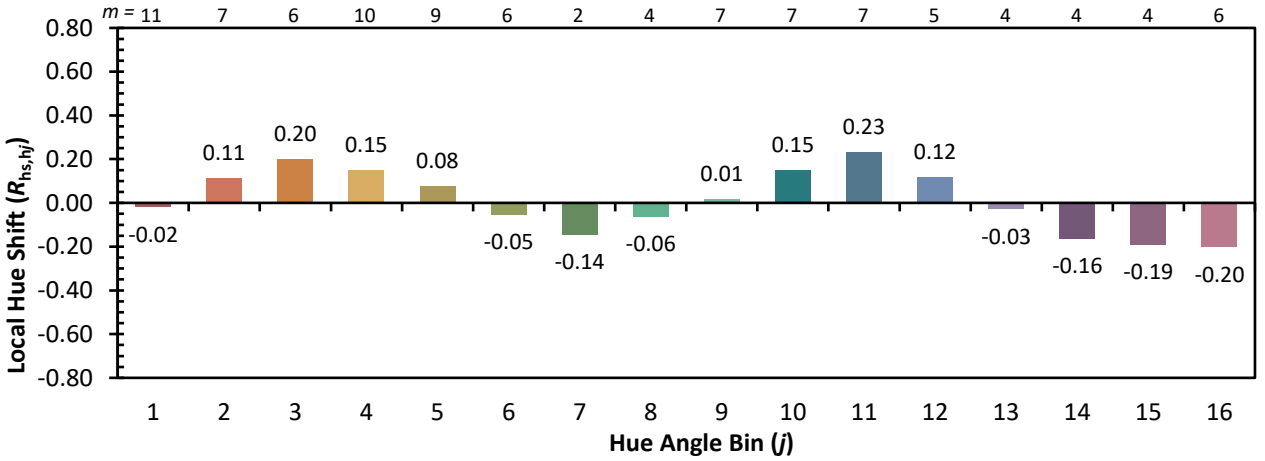
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

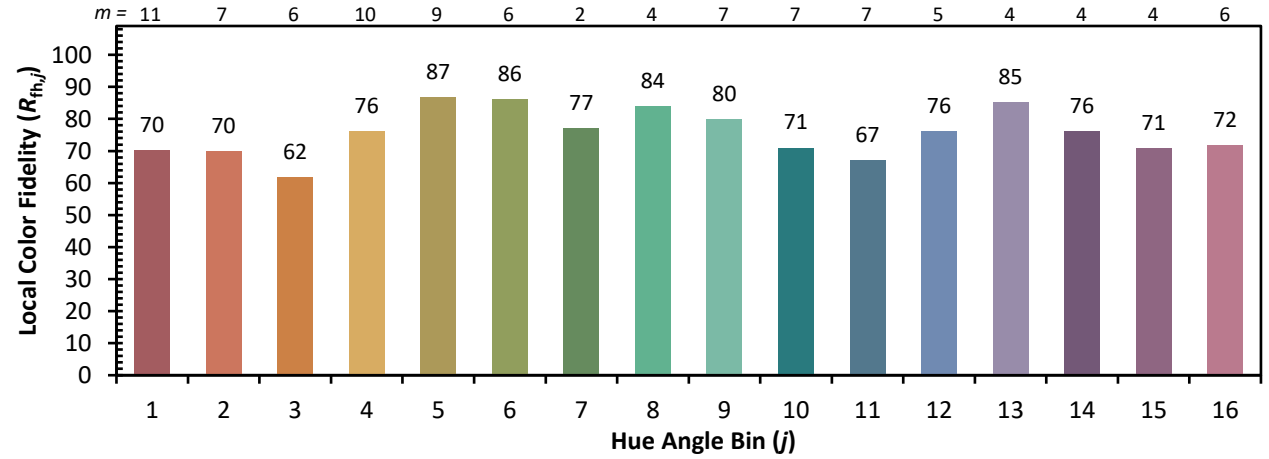
REPORT NUMBER: SP1-2406-133-4

TM-30-18

Color Rendition by Hue-Angle Bin





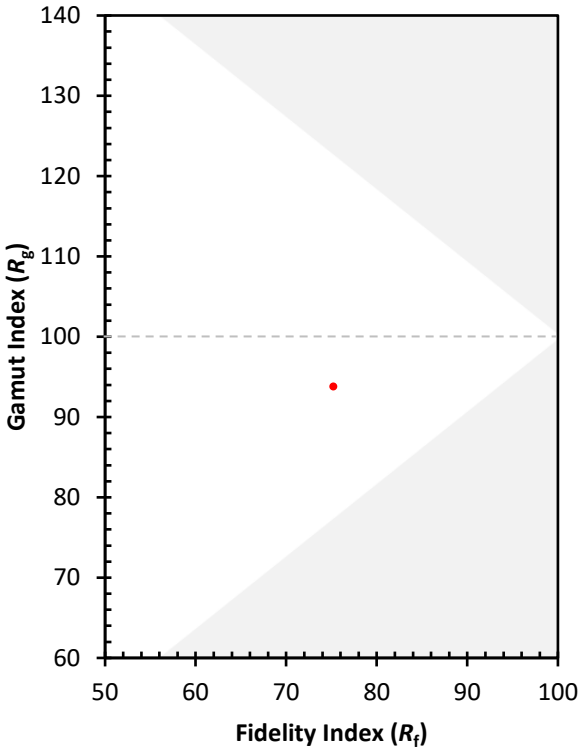


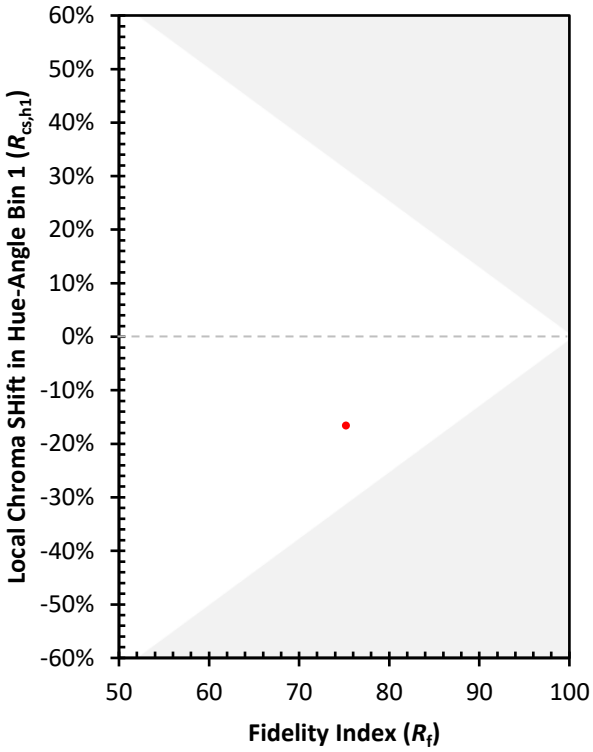
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons





(END OF REPORT)