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: P856117

Luminaire Tested: **FFX-CLB-30-727-U-FR-T3**

Issue Date: 07/16/2024

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P856117
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/16/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-727-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4484.1 lumens
Efficiency:	N/A
Efficacy:	147.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - G2

Input Watts (W):	30.5
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.6%%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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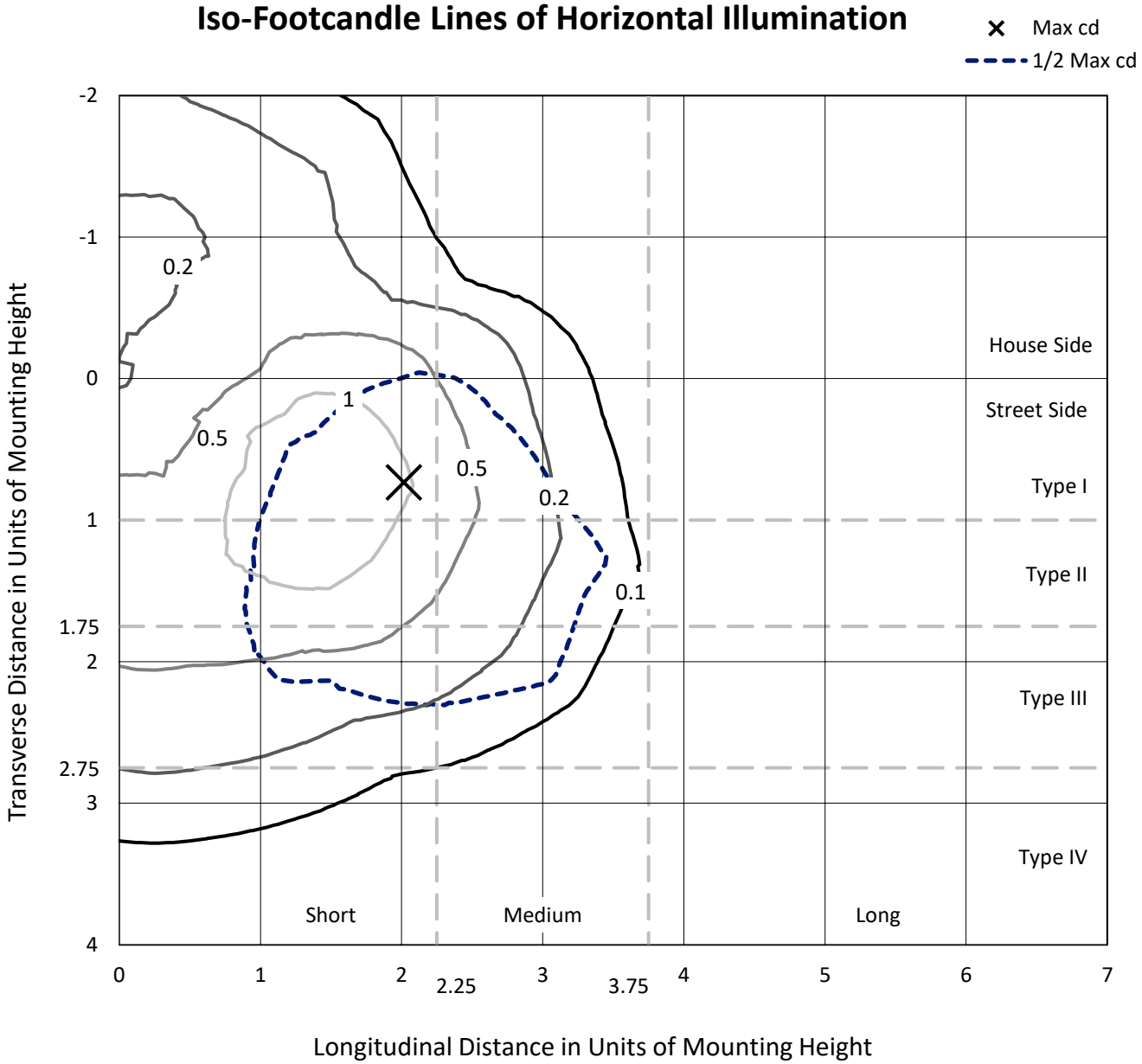
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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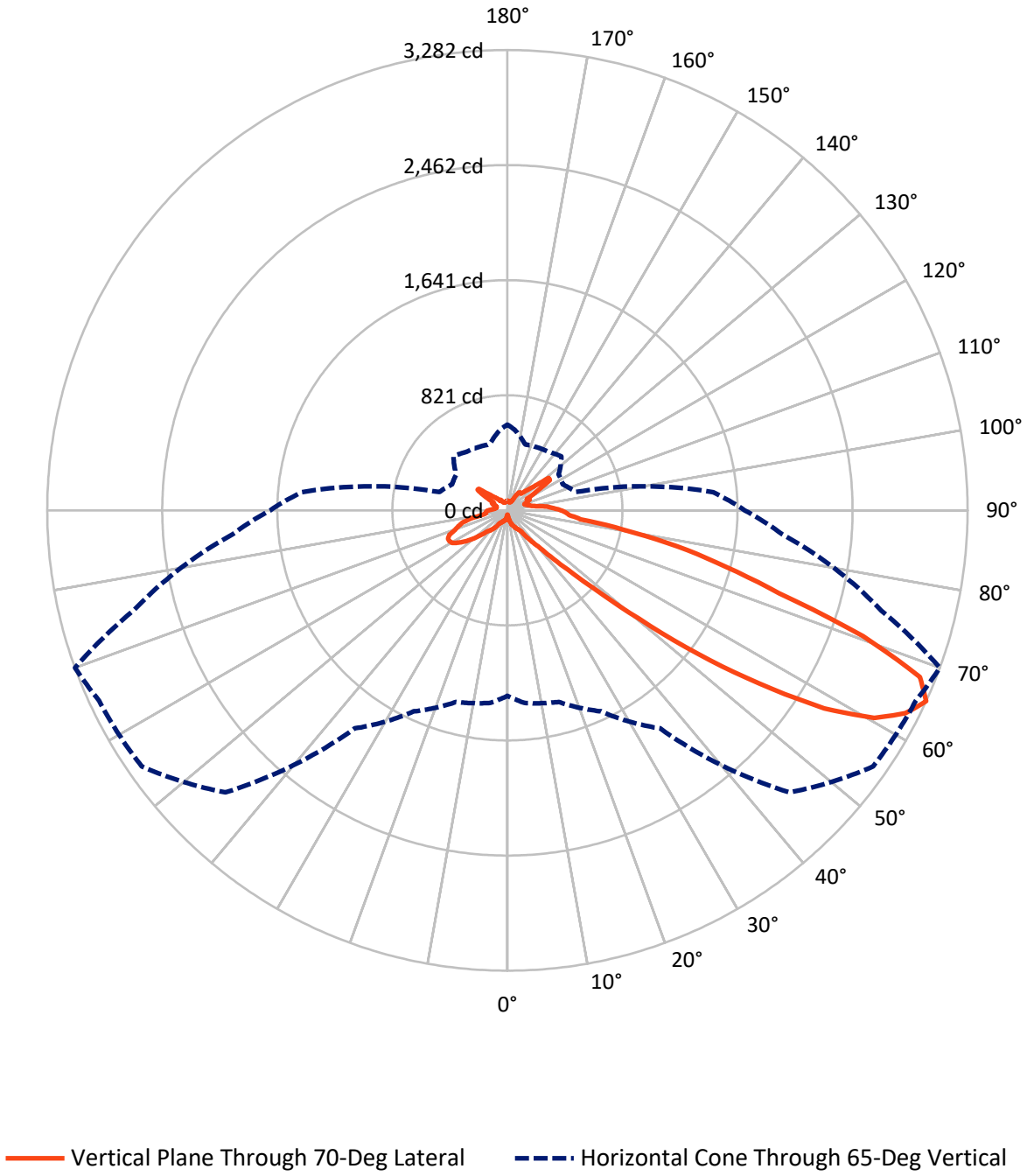
Luminous Intensity Polar Plot



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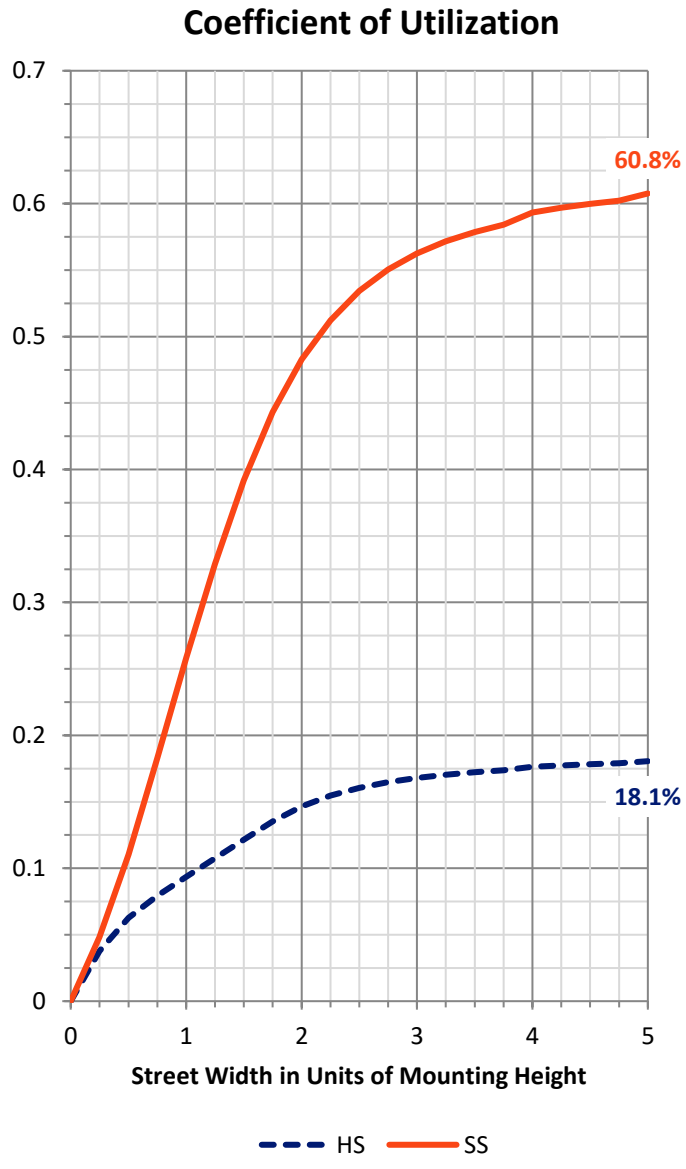
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.7	301.3	1146.0
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	2816.7	521.4	3338.1
	% Fixture	62.8	11.6	74.4
Total	Lumens	3661.4	822.8	4484.1
	% Fixture	81.7	18.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	23.5	0.5
20°-30°	49.9	1.1
30°-40°	101.6	2.3
40°-50°	258.2	5.8
50°-60°	829.9	18.5
60°-70°	1354.3	30.2
70°-80°	771.0	17.2
80°-90°	268.3	6.0
90°-100°	166.9	3.7
100°-110°	106.3	2.4
110°-120°	117.0	2.6
120°-130°	197.8	4.4
130°-140°	116.6	2.6
140°-150°	62.8	1.4
150°-160°	31.7	0.7
160°-170°	17.4	0.4
170°-180°	6.3	0.1
0°-90°	3661.4	81.7
0°-180°	4484.1	100.0



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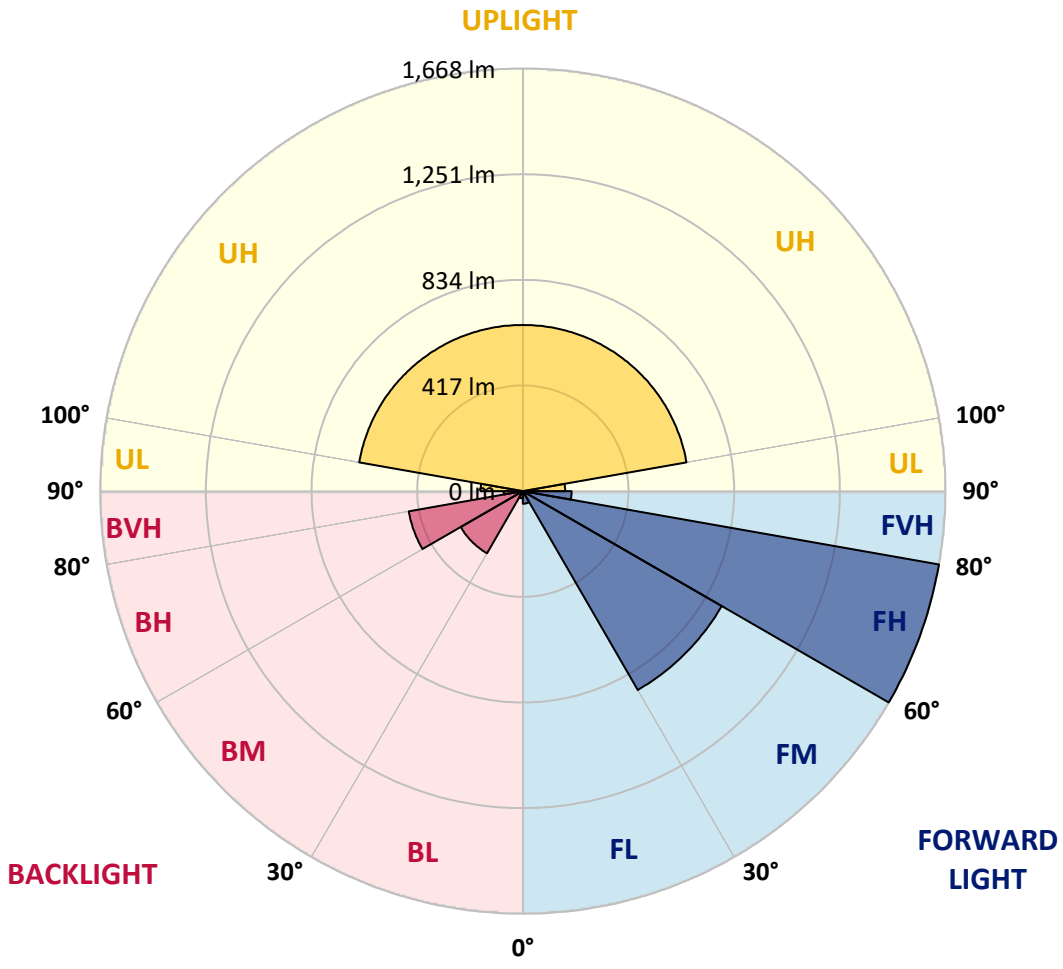
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	49.8	1.1			
FM	(30°-60°)	906.5	20.2			
FH	(60°-80°)	1668.0	37.2			G1/1800
FVH	(80°-90°)	192.4	4.3			G2/225
BL	(0°-30°)	28.4	0.6	B0/110		
BM	(30°-60°)	283.1	6.3	B1/1000		
BH	(60°-80°)	457.3	10.2	B1/500		G1/500
BVH	(80°-90°)	75.9	1.7			G1/100
UL	(90°-100°)	166.9	3.7		U3/500	
UH	(100°-180°)	655.8	14.6		U4/1000	

BUG Rating: B1-U4-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
2.5°	35.6	35.6	36.5	36.5	36.5	35.6	35.1	34.2	34.2	34.2	33.7
5°	46.2	45.7	46.2	47.6	48.1	46.7	45.7	44.4	44.4	43.9	43.9
7.5°	62.4	61.9	61.0	59.6	60.1	61.5	63.3	59.6	58.7	56.4	55.5
10°	78.1	77.2	78.1	75.8	73.5	70.2	72.1	71.2	69.3	67.0	65.2
12.5°	95.2	95.7	97.5	95.7	92.0	86.9	85.9	83.6	81.8	81.3	78.6
15°	112.7	113.2	115.1	114.6	110.9	104.0	101.2	98.9	98.0	95.2	89.2
17.5°	122.0	122.5	122.9	123.4	121.1	115.5	111.4	107.2	105.8	104.9	97.5
20°	126.6	125.7	126.6	128.5	130.3	125.7	121.5	119.2	117.8	114.6	104.9
22.5°	134.0	133.1	132.6	134.0	139.6	136.3	132.2	129.8	128.5	124.3	109.5
25°	141.9	140.9	142.3	141.4	148.3	146.9	142.8	140.5	138.6	133.5	116.4
27.5°	150.6	149.7	151.1	150.2	155.7	156.6	153.9	152.0	149.3	141.9	121.5
30°	158.0	157.1	158.5	158.0	163.6	166.8	165.4	165.0	160.8	152.0	130.3
32.5°	164.0	163.6	166.8	168.2	169.6	177.0	176.1	180.2	175.6	165.0	143.2
35°	177.9	179.3	188.1	197.3	198.7	213.5	215.3	230.6	226.0	212.1	185.8
37.5°	274.9	269.9	261.1	252.3	249.1	277.7	281.9	297.1	285.6	259.7	217.2
40°	293.0	284.6	274.5	267.5	268.5	319.8	311.0	368.7	335.9	297.1	265.2
42.5°	278.2	275.4	311.0	327.6	315.6	390.5	375.7	485.7	448.2	353.0	320.2
45°	348.9	343.3	355.8	372.4	376.1	513.8	503.7	618.7	603.5	441.3	410.8
47.5°	399.2	394.2	410.8	467.2	515.7	664.5	719.9	885.8	832.2	627.1	556.4
50°	550.3	549.4	600.7	667.7	752.7	966.7	1114.1	1300.3	1213.9	887.7	762.9
52.5°	699.6	701.5	764.3	883.1	971.3	1349.3	1558.6	1688.9	1700.5	1157.5	988.9
55°	812.4	823.9	899.7	1098.8	1232.4	1689.9	1961.6	2062.8	2178.3	1564.2	1224.1
57.5°	1032.3	1049.9	1122.0	1317.0	1503.6	2114.1	2481.0	2492.0	2664.4	2015.2	1476.4
60°	1224.5	1265.7	1291.1	1468.1	1722.7	2519.3	2866.8	2844.6	3006.3	2389.0	1732.4
62.5°	1284.1	1331.3	1355.3	1543.8	1895.9	2746.7	3047.0	3074.7	3186.1	2651.5	1889.0
65°	1323.0	1378.4	1414.5	1581.3	1897.8	2843.7	3183.8	3213.4	3282.2	2761.4	1967.1
67.5°	1303.1	1373.8	1420.0	1568.3	1798.0	2768.8	3156.5	3099.7	3172.7	2669.5	1879.8
70°	1137.7	1211.6	1258.3	1368.7	1503.2	2328.0	2721.2	2626.0	2690.3	2228.2	1545.7
72.5°	926.9	963.5	992.1	1052.6	1133.0	1717.1	2067.8	1988.8	2027.2	1676.5	1158.5
75°	761.5	772.6	808.2	842.8	856.3	1256.0	1638.1	1566.0	1610.8	1276.3	921.9
77.5°	553.1	559.6	610.4	616.0	612.7	861.8	1291.1	1227.8	1242.1	948.7	688.0
80°	321.2	333.6	400.2	396.9	391.4	530.9	908.9	883.5	839.2	644.2	476.4
82.5°	226.4	238.9	269.4	276.3	272.6	381.2	590.1	573.5	525.4	448.2	329.5
85°	238.4	239.8	241.2	244.4	238.4	340.1	451.9	443.6	444.1	370.6	271.7
87.5°	235.2	240.7	243.1	244.4	238.4	323.0	420.0	409.4	414.5	352.1	263.9
90°	206.6	216.7	217.6	220.0	216.7	288.3	377.1	366.9	373.4	317.5	240.3
92.5°	168.7	174.2	180.7	189.5	185.8	246.8	320.7	313.3	321.2	274.9	211.2
95°	159.9	165.9	170.0	176.1	170.5	225.0	289.7	274.9	281.4	240.7	182.1
97.5°	132.2	137.2	140.9	143.2	139.1	177.4	222.3	212.1	211.6	186.2	145.6
100°	112.7	116.0	119.2	121.5	117.8	146.9	176.1	172.4	173.3	153.9	125.2
102.5°	107.2	109.1	114.1	114.6	110.4	134.0	158.5	157.1	159.0	142.3	117.4
105°	104.9	106.3	110.4	109.1	105.4	125.2	146.0	146.9	146.9	132.6	110.0
107.5°	98.0	100.3	104.9	102.6	100.7	115.5	134.5	131.2	132.2	123.4	104.4
110°	97.0	98.9	103.5	101.7	100.3	112.7	129.4	128.5	129.8	122.0	107.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	120.6	118.8	122.5	118.8	121.1	131.7	149.3	147.4	*151.6*	148.8	134.0
115°	148.8	149.7	153.4	146.0	148.3	159.0	168.7	171.9	*175.6*	171.4	156.2
117.5°	137.7	145.6	140.9	140.0	138.2	146.5	145.1	153.4	*157.1*	153.9	147.9
120°	147.4	157.1	143.7	136.8	134.0	154.8	165.0	164.5	*161.7*	155.3	142.8
122.5°	220.4	221.8	222.7	243.5	236.1	256.5	262.5	254.6	*254.6*	262.9	237.5
125°	343.8	345.2	344.3	353.5	348.4	367.8	375.7	375.2	*370.6*	366.4	341.5
127.5°	347.5	347.5	344.3	339.2	343.8	362.7	363.2	380.8	*374.8*	363.7	340.6
130°	242.6	244.4	256.0	259.7	266.2	270.3	265.7	280.9	*283.7*	281.9	266.2
132.5°	201.0	204.2	216.7	221.3	225.5	226.0	224.1	236.1	*238.9*	238.9	232.0
135°	173.7	177.4	178.8	176.5	182.5	187.1	190.8	200.5	*199.6*	197.8	191.8
137.5°	151.6	153.0	148.8	143.7	146.9	160.3	167.7	177.9	*177.4*	174.2	164.0
140°	128.0	128.5	126.2	123.8	127.1	138.6	145.6	156.6	*155.3*	153.0	140.9
142.5°	97.0	98.4	104.4	109.1	116.9	140.9	137.2	146.9	*153.9*	159.4	131.7
145°	102.1	100.3	99.3	104.4	114.6	149.3	138.6	151.1	*154.3*	158.0	126.2
147.5°	117.8	118.8	117.4	114.1	128.0	139.1	133.1	144.2	*146.0*	145.1	132.2
150°	92.4	93.8	94.3	92.9	110.0	109.5	103.5	111.8	*112.7*	112.7	104.0
152.5°	75.3	75.8	74.9	73.9	85.0	83.2	80.4	83.2	*82.7*	82.3	80.4
155°	71.6	71.6	70.7	71.2	78.6	76.7	74.9	76.7	*75.8*	74.4	72.5
157.5°	66.1	66.5	66.5	67.9	72.5	69.3	67.5	68.4	*67.5*	66.5	66.5
160°	62.4	62.4	62.8	64.7	67.5	64.2	62.8	63.3	*62.8*	61.9	62.4
162.5°	61.0	61.0	61.5	62.4	62.8	61.0	59.6	59.6	*59.6*	59.6	61.0
165°	60.1	60.1	60.1	60.5	60.5	59.1	58.7	59.1	*59.6*	60.1	61.9
167.5°	61.9	61.9	61.9	61.9	61.5	60.5	60.1	60.5	*61.0*	61.5	62.8
170°	64.7	64.2	64.2	63.8	63.3	62.4	61.9	61.5	*61.5*	61.9	62.4
172.5°	66.5	66.5	66.1	66.1	65.6	64.7	63.8	63.3	*63.3*	63.3	63.3
175°	68.9	68.9	68.9	68.9	68.4	67.5	67.0	66.1	*66.1*	66.1	66.1
177.5°	71.6	71.6	71.6	71.6	70.7	69.8	68.9	67.9	*67.9*	67.9	67.5
180°	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	*68.4*	68.4	68.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
2.5°	33.3	32.8	31.4	31.0	30.5	29.6	28.6	28.2	27.7	27.7	28.2
5°	44.4	43.9	43.9	42.5	41.1	38.8	37.9	37.9	38.4	38.8	39.7
7.5°	55.9	56.8	57.8	55.5	51.3	45.7	42.5	43.4	45.7	47.6	47.6
10°	64.7	64.7	67.9	65.2	58.2	51.3	46.7	45.7	46.2	46.7	47.1
12.5°	77.2	77.2	75.3	67.9	61.0	54.1	50.4	49.4	49.4	47.6	47.1
15°	86.4	83.6	77.2	70.2	64.2	57.3	53.1	51.8	50.4	49.0	48.5
17.5°	92.0	86.9	78.1	71.6	65.6	60.1	55.9	53.1	51.8	52.2	52.2
20°	98.4	92.9	85.0	78.1	70.7	63.3	58.2	54.1	52.7	53.1	52.7
22.5°	103.5	98.0	90.1	82.3	74.4	66.5	60.5	55.5	53.6	54.1	54.1
25°	109.5	104.9	96.6	87.3	77.6	70.2	64.2	58.2	55.5	55.0	55.0
27.5°	115.5	112.3	103.5	92.4	82.3	73.5	67.5	60.5	57.3	55.9	55.9
30°	123.4	119.7	110.9	97.5	86.4	78.1	71.6	64.2	59.6	57.3	56.8
32.5°	135.9	131.7	121.1	106.7	91.0	82.7	75.8	67.5	61.5	58.7	58.2
35°	176.5	170.0	153.4	136.8	111.4	92.4	80.9	70.2	63.3	59.6	59.1
37.5°	201.9	186.2	164.0	153.0	125.2	113.2	97.5	80.4	66.1	61.5	60.5
40°	243.1	221.3	193.6	171.9	122.0	123.8	114.1	100.3	78.6	64.7	63.3
42.5°	277.7	250.5	208.4	180.2	122.5	129.4	122.0	110.4	94.3	76.7	73.9
45°	342.4	307.3	242.1	193.6	125.7	137.7	128.5	116.4	102.1	90.1	88.7
47.5°	462.6	415.0	302.7	215.8	146.9	159.9	143.2	127.5	114.6	100.7	98.4
50°	633.1	576.2	372.4	233.4	183.4	210.7	180.7	154.3	139.6	129.4	128.0
52.5°	829.4	769.8	423.7	265.7	227.8	273.6	238.9	208.4	189.0	189.0	191.8
55°	1057.7	998.1	464.9	310.5	282.3	342.9	305.4	280.5	271.2	310.5	321.2
57.5°	1284.1	1208.4	492.6	356.3	346.1	424.2	379.4	358.1	375.2	491.7	527.7
60°	1490.7	1365.5	514.3	399.7	400.6	488.9	455.6	454.2	480.6	629.4	675.1
62.5°	1609.9	1439.4	512.9	424.7	432.5	529.1	501.4	508.8	523.5	652.5	687.1
65°	*1691.7*	*1474.5*	*502.3*	*435.7*	*445.9*	*543.4*	*508.8*	*496.3*	*486.6*	*577.6*	*610.9*
67.5°	1635.3	1392.3	478.3	419.6	437.6	522.6	476.9	441.3	422.3	468.6	491.2
70°	1369.6	1161.2	423.3	377.5	394.2	440.4	396.5	361.4	341.5	366.4	377.1
72.5°	1037.4	883.5	381.7	353.0	345.6	364.1	322.5	283.3	271.2	287.4	289.7
75°	826.2	691.3	351.2	319.3	290.2	308.2	257.4	209.8	202.9	202.9	199.2
77.5°	619.7	512.5	299.4	248.6	213.9	243.5	191.8	146.0	136.8	134.9	129.8
80°	415.4	348.9	201.5	165.0	153.9	180.7	136.3	107.2	107.7	107.2	101.2
82.5°	290.2	269.4	163.6	143.7	131.7	142.3	123.4	103.0	102.1	103.0	96.6
85°	257.4	246.8	158.5	148.3	135.9	137.2	118.3	97.5	98.0	99.8	94.3
87.5°	247.2	235.2	159.0	143.2	132.6	127.1	107.2	90.1	92.9	94.7	90.1
90°	222.7	210.7	146.0	129.4	118.3	110.4	94.7	85.5	89.2	91.0	86.9
92.5°	193.2	180.7	121.5	114.1	111.4	111.4	99.3	91.0	93.3	94.3	90.6
95°	166.4	154.3	108.1	100.3	98.0	98.4	88.7	81.8	83.2	82.7	79.9
97.5°	134.5	127.1	94.3	89.2	86.9	85.9	79.5	74.4	77.2	79.0	76.7
100°	118.8	115.1	91.0	87.3	84.1	83.6	78.1	74.9	77.2	79.9	78.1
102.5°	110.9	108.1	86.9	81.8	79.5	78.6	74.9	71.2	73.5	76.2	74.9
105°	104.4	100.3	83.2	78.6	75.3	74.9	71.2	66.5	67.9	71.6	70.7
107.5°	98.9	96.1	82.7	77.6	73.5	73.5	69.3	65.6	66.1	67.5	67.5
110°	103.5	100.3	85.9	82.3	76.7	74.9	73.9	71.2	68.9	67.9	67.9

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

Scaled Data Report

REPORT NUMBER: P856117
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	128.0	122.0	107.7	103.5	94.3	87.8	81.8	76.2	72.5	71.2	70.2
115°	151.1	144.2	127.1	116.4	104.0	94.3	85.9	79.9	74.4	72.5	74.4
117.5°	155.7	137.2	110.9	102.1	94.7	88.7	84.1	79.5	75.3	76.7	75.3
120°	154.3	131.7	111.8	124.3	111.8	98.0	86.9	86.9	85.5	78.6	79.9
122.5°	237.5	221.8	197.8	190.4	155.3	141.9	121.1	103.5	86.4	76.7	72.1
125°	325.3	310.1	273.1	244.9	209.8	172.8	132.6	102.1	79.9	70.7	72.1
127.5°	327.2	313.3	278.2	230.6	184.4	147.9	110.4	90.6	78.1	72.1	71.2
130°	255.1	241.7	211.6	175.1	146.0	122.0	99.3	81.8	70.7	66.1	64.7
132.5°	220.9	208.9	181.1	147.9	126.6	107.7	88.7	71.2	63.8	60.5	61.0
135°	185.8	171.4	145.1	127.1	113.7	96.6	79.5	65.2	61.5	60.5	60.1
137.5°	157.6	147.4	128.9	115.1	102.1	86.9	69.8	61.0	59.6	60.5	59.6
140°	134.0	125.7	115.5	103.5	87.8	73.5	62.4	58.2	60.5	61.0	60.5
142.5°	115.5	107.2	96.6	80.4	73.0	66.5	63.8	60.5	60.5	60.1	59.6
145°	96.6	85.5	80.4	82.7	78.1	71.6	66.5	60.1	57.8	57.8	58.2
147.5°	110.9	99.3	92.9	87.8	79.0	69.8	61.9	55.9	55.0	56.8	56.4
150°	95.7	85.0	80.4	73.5	67.9	61.0	55.9	53.6	54.1	56.4	56.4
152.5°	76.2	68.9	66.1	64.2	61.5	57.3	54.5	53.6	54.5	55.5	55.5
155°	71.6	67.5	64.2	62.8	59.6	56.4	54.1	53.6	54.5	55.5	56.4
157.5°	67.0	65.6	61.5	60.1	57.3	55.9	54.5	54.5	55.0	55.9	56.8
160°	63.8	63.3	59.6	59.1	57.3	56.4	56.4	56.8	57.3	57.3	57.3
162.5°	61.9	61.9	60.5	59.6	59.1	58.7	60.1	60.5	60.1	60.1	60.1
165°	62.4	62.8	61.5	60.5	60.1	61.0	63.3	63.3	62.4	61.9	61.5
167.5°	62.8	63.3	62.4	61.9	61.9	62.8	63.8	63.3	62.8	62.4	61.9
170°	62.4	62.8	62.8	63.3	63.3	63.3	64.2	64.2	63.3	62.8	62.8
172.5°	63.3	63.8	64.2	64.7	65.2	64.7	65.2	65.2	65.2	65.2	65.6
175°	66.1	66.1	66.5	66.5	66.1	66.5	66.5	66.5	67.0	67.9	67.9
177.5°	67.5	67.5	67.0	67.0	66.5	67.0	67.0	67.0	67.0	67.5	67.0
180°	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4

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

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-3

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.03

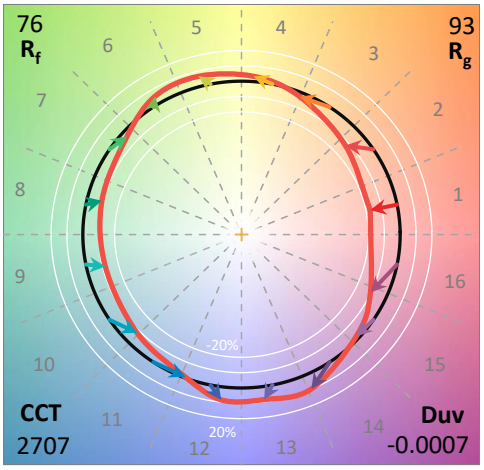
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2406-133-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2707	CRI (Ra):	71.3		
CIE u':	0.2624	R1:	67.8	R9:	-34.9
CIE v':	0.5261	R2:	84.5	R10:	65.1
Duv:	-0.0007	R3:	94.2	R11:	59.2
CIE x:	0.4580	R4:	64.8	R12:	54.2
CIE y:	0.4082	R5:	66.9	R13:	71.2
CIE z:	0.1338	R6:	79.2	R14:	97.5
Peak Wavelength (nm):	599	R7:	74.4	R15:	59.4
Dominant Wavelength (nm):	584	R8:	38.8		
Purity:	59.99901				
Rf:	75.5				
Rg:	92.5				



Test Conditions

Stabilization Time:	0.813602M
Operation Time:	1H
Sphere Temperature (°C):	24.7

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

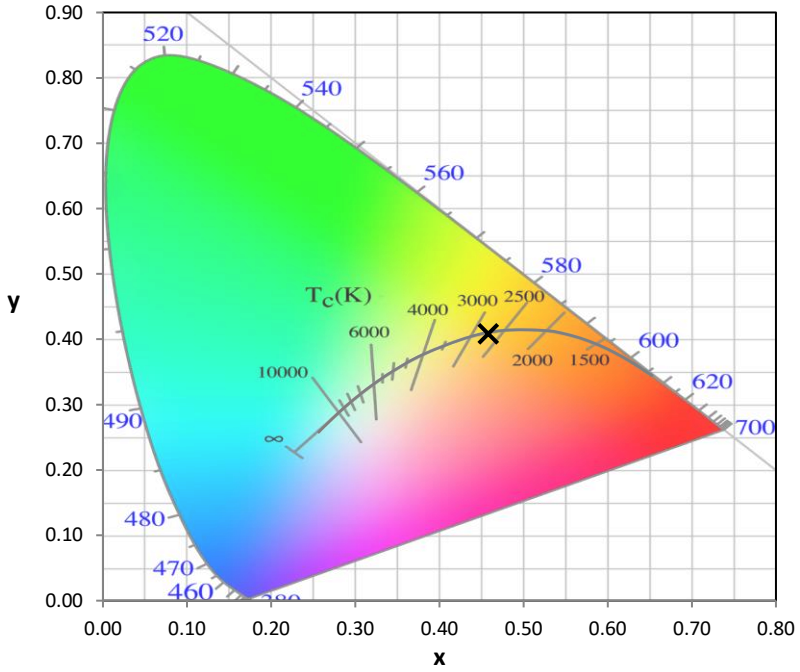
REPORT NUMBER: SP1-2406-133-3

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

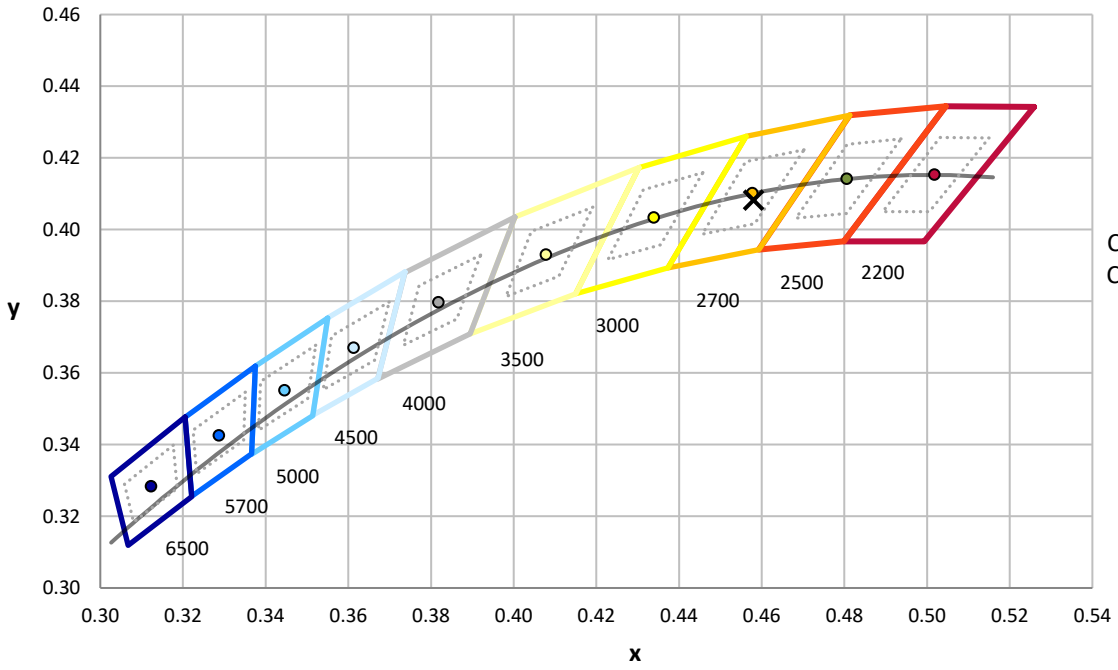
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2406-133-3

CIE 1931 Chromaticity Diagram



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



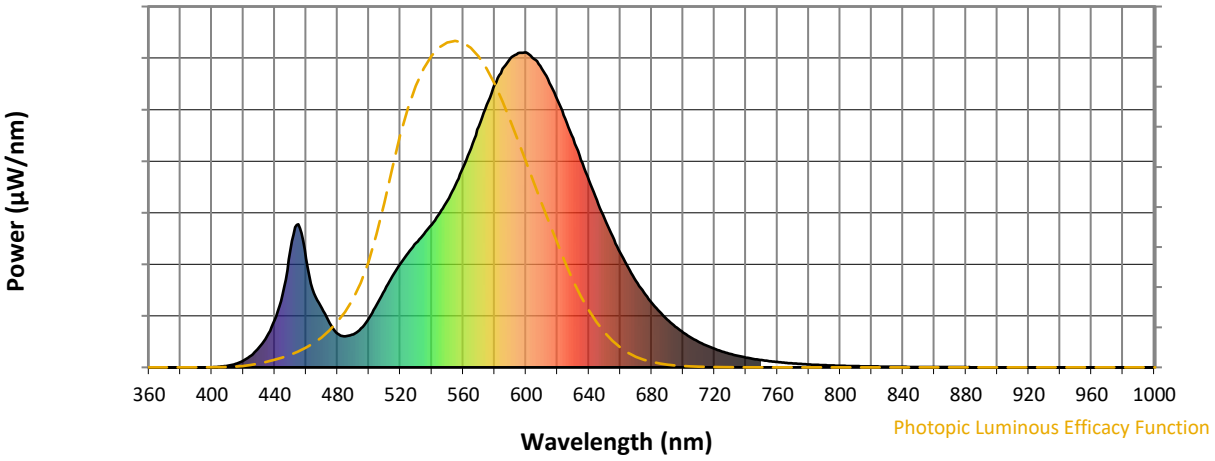
CCT = 2707K
CIE x = 0.4580
CIE y = 0.4082
Duv = -0.0007

Point lies inside the ANSI 2700K 4-step quadrangle

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

REPORT NUMBER: SP1-2406-133-3

Photopic Flux vs. Wavelength



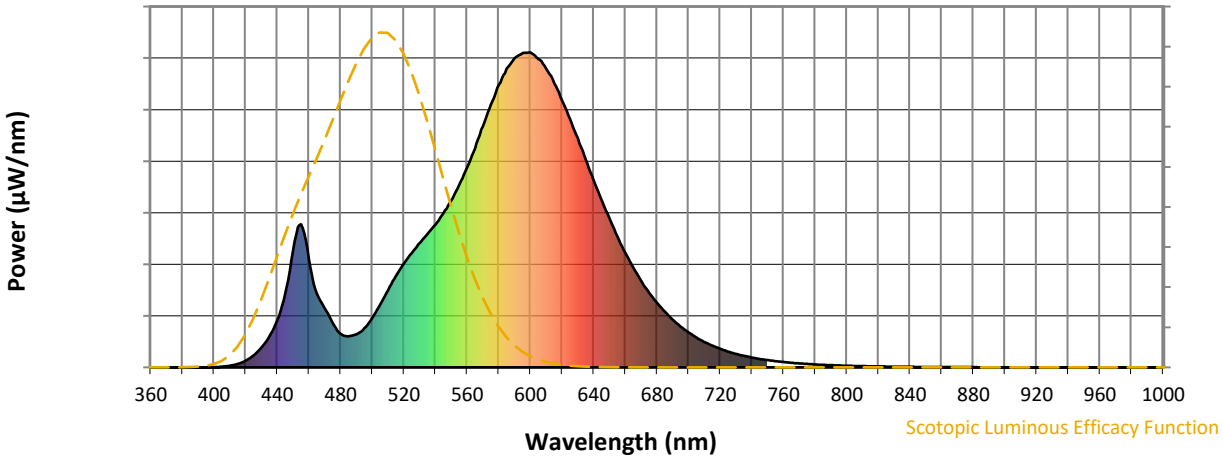
Photopic Lumens: NR

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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

REPORT NUMBER: SP1-2406-133-3

Scotopic Flux vs. Wavelength



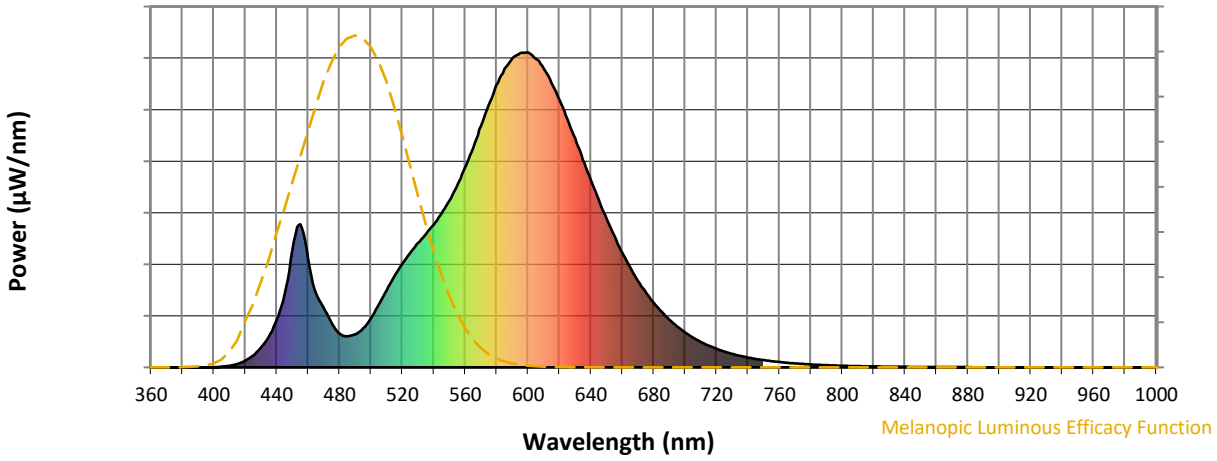
Scotopic Lumens: NR **S/P: 1.12**

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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

REPORT NUMBER: SP1-2406-133-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.03**

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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

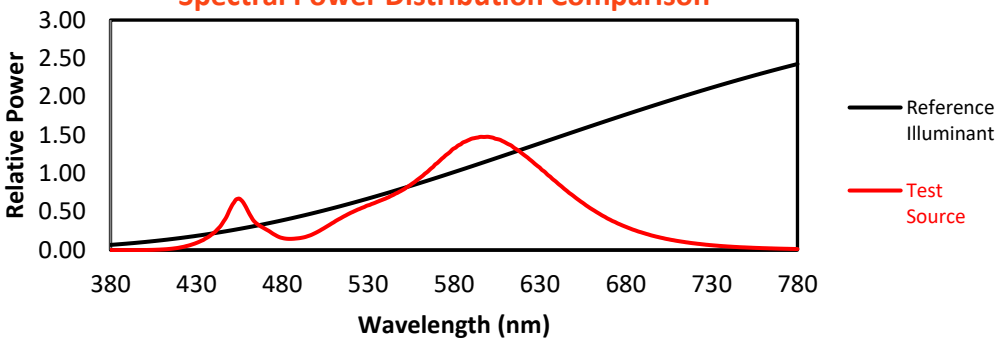
REPORT NUMBER: SP1-2406-133-3

TM-30-18

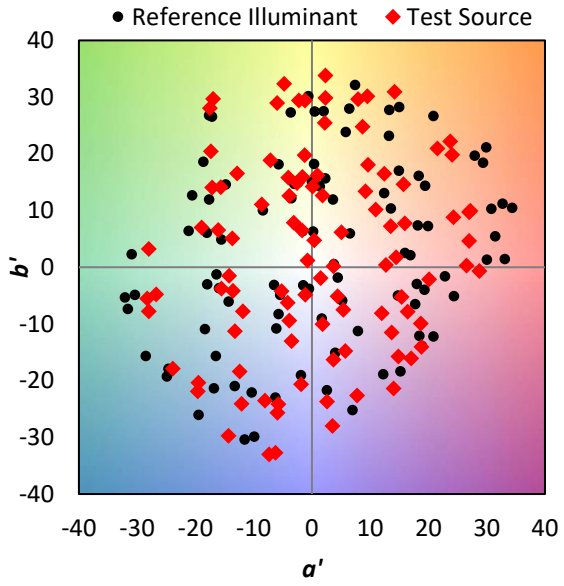
Summary

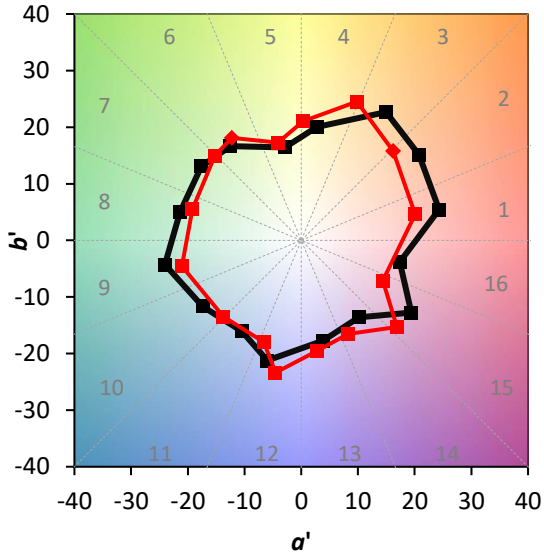
R_f = 75.5
R_g = 92.5
CIE R_a = 71.3
R_9 = -34.9

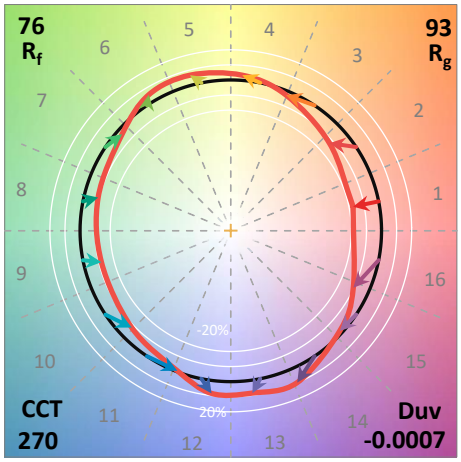
Spectral Power Distribution Comparison

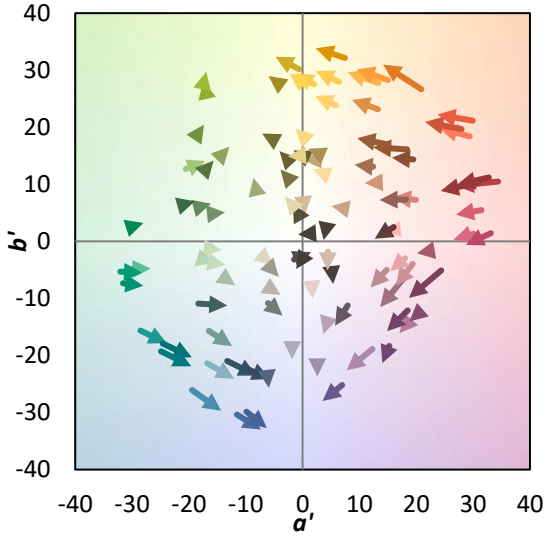


Color Vector Graphics









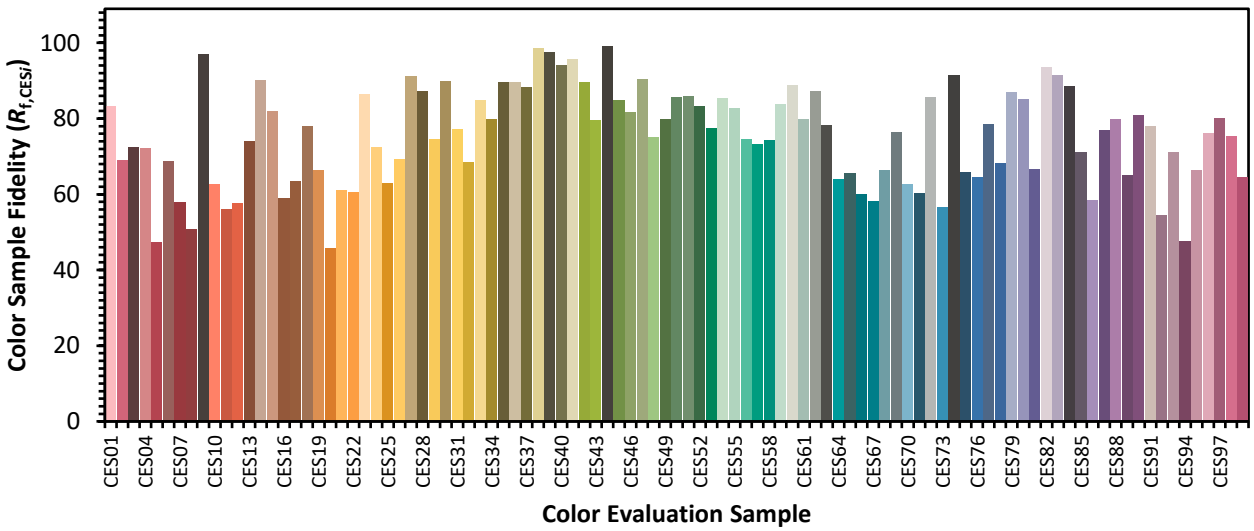
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2406-133-3

TM-30-18

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

CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	

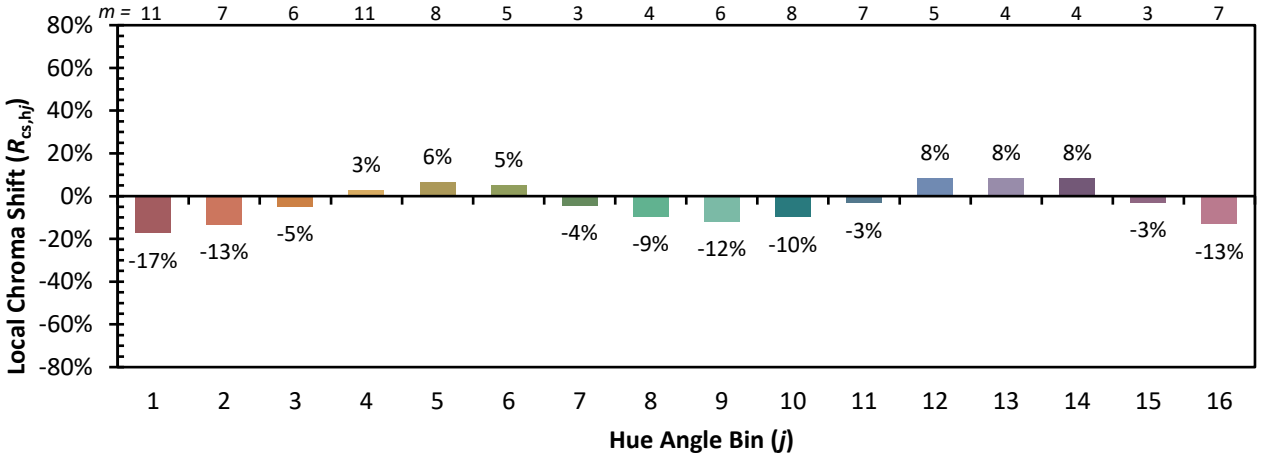


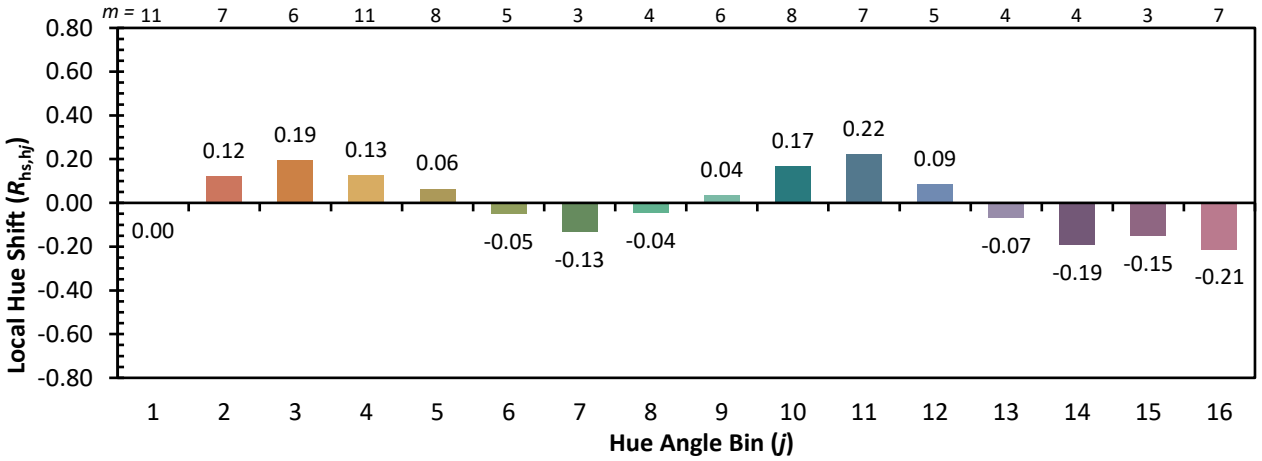
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

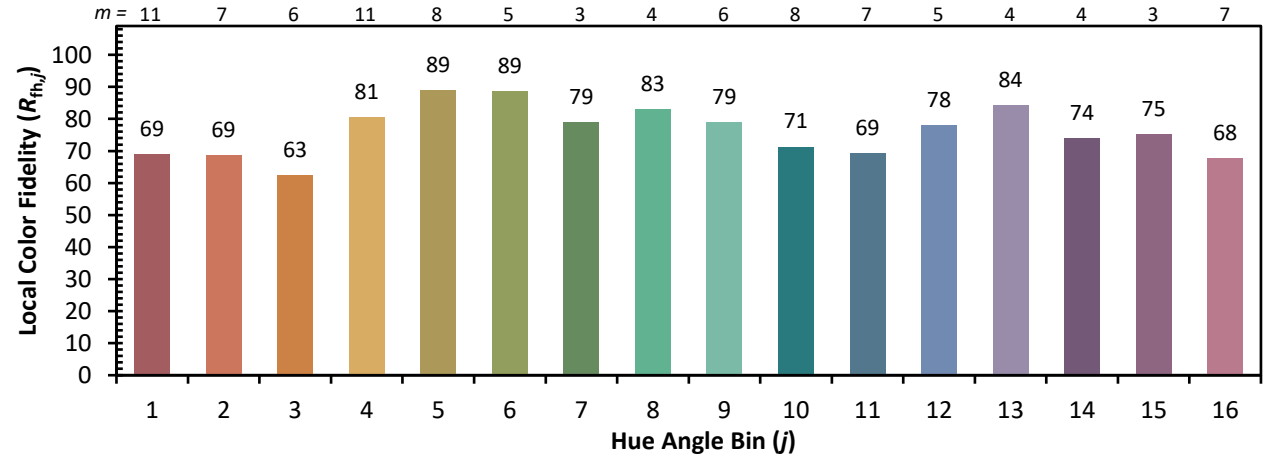
REPORT NUMBER: SP1-2406-133-3

TM-30-18

Color Rendition by Hue-Angle Bin







Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

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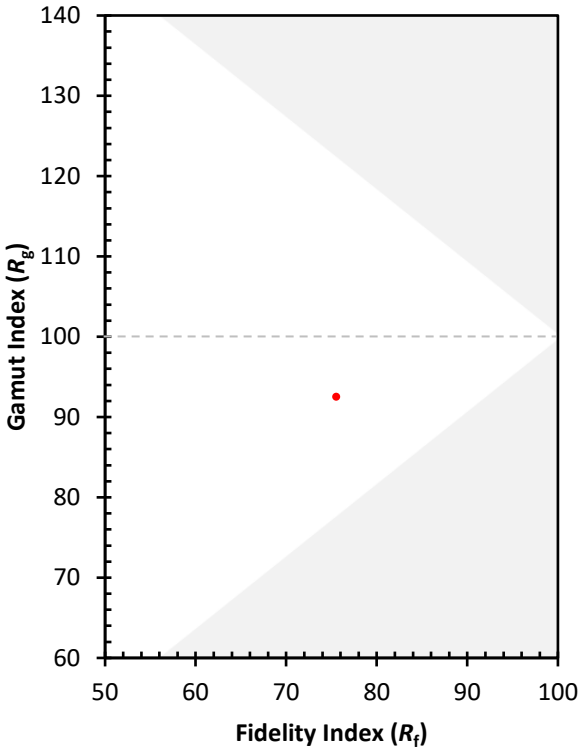
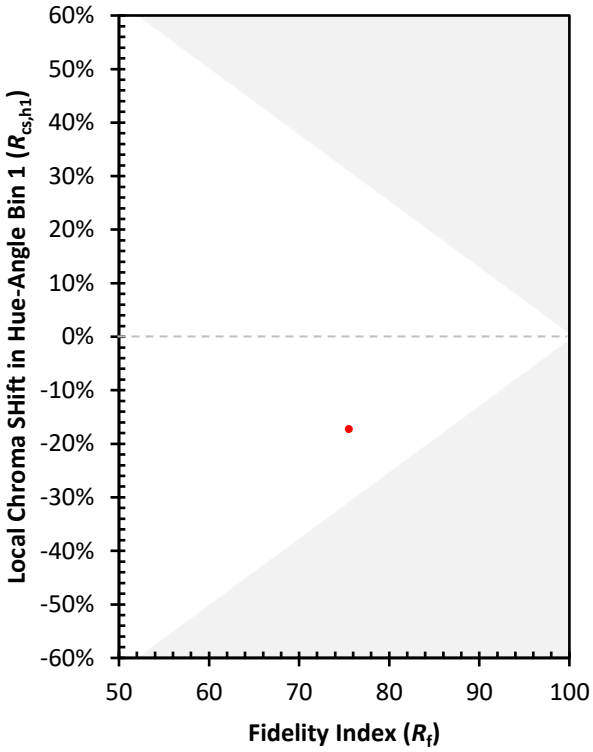
Measure Comparisons





(END OF REPORT)