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: P856204

Luminaire Tested: **FFX-CLB-60-727-U-FR-T3-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:	P856204
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/16/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-727-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8558.5 lumens
Efficiency:	N/A
Efficacy:	143.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	59.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.9%%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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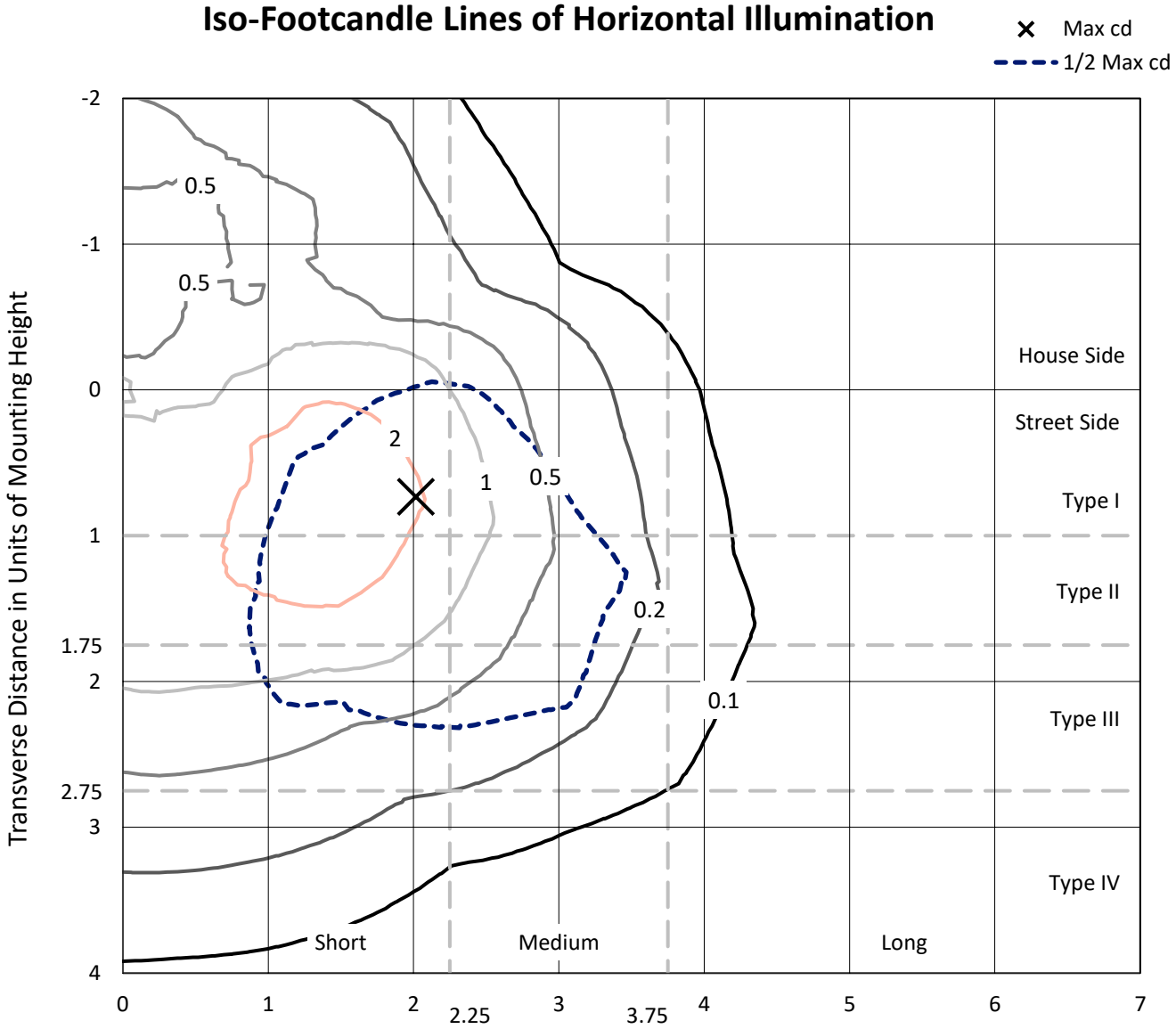
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - N/A

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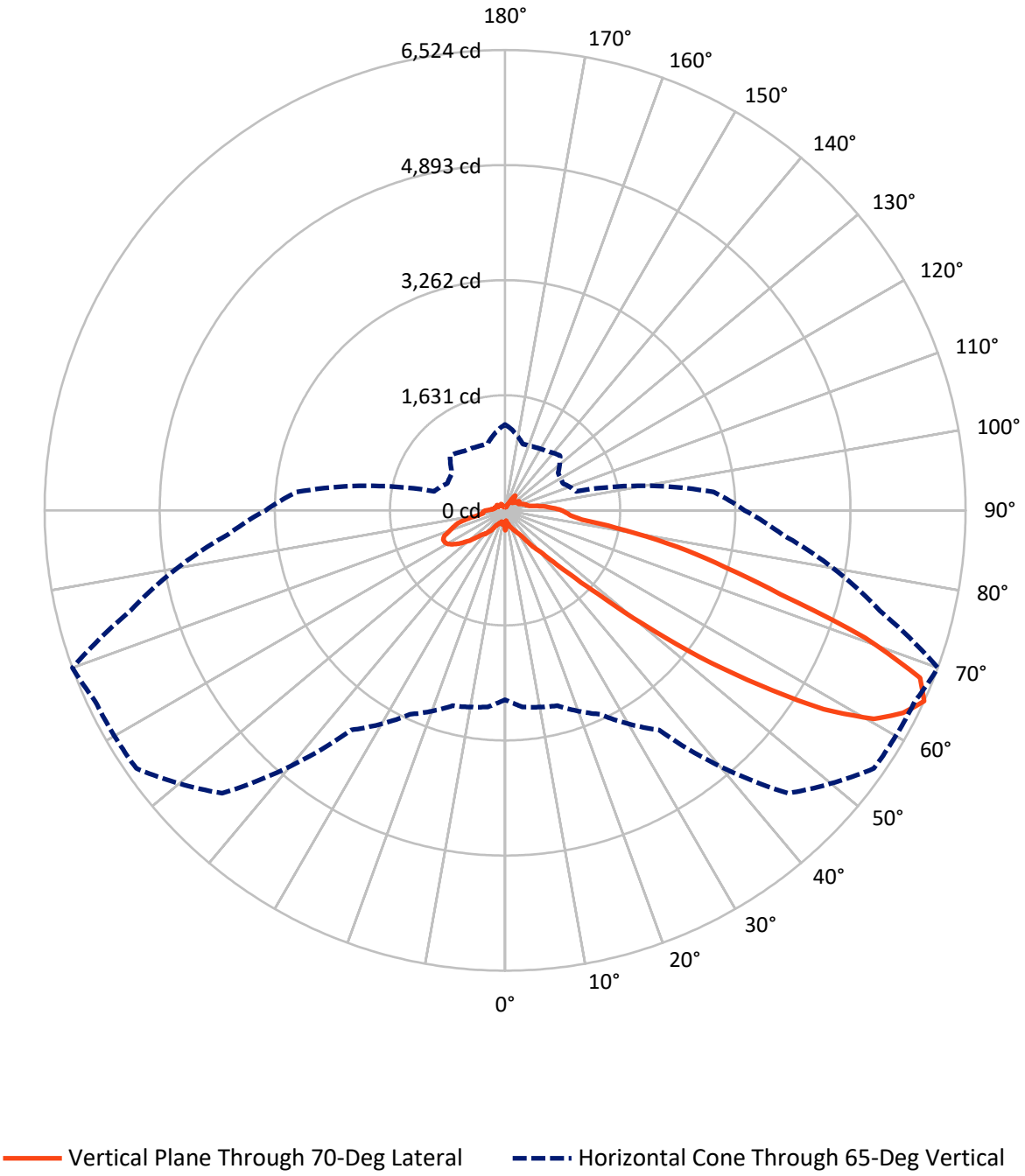
Luminous Intensity Polar Plot



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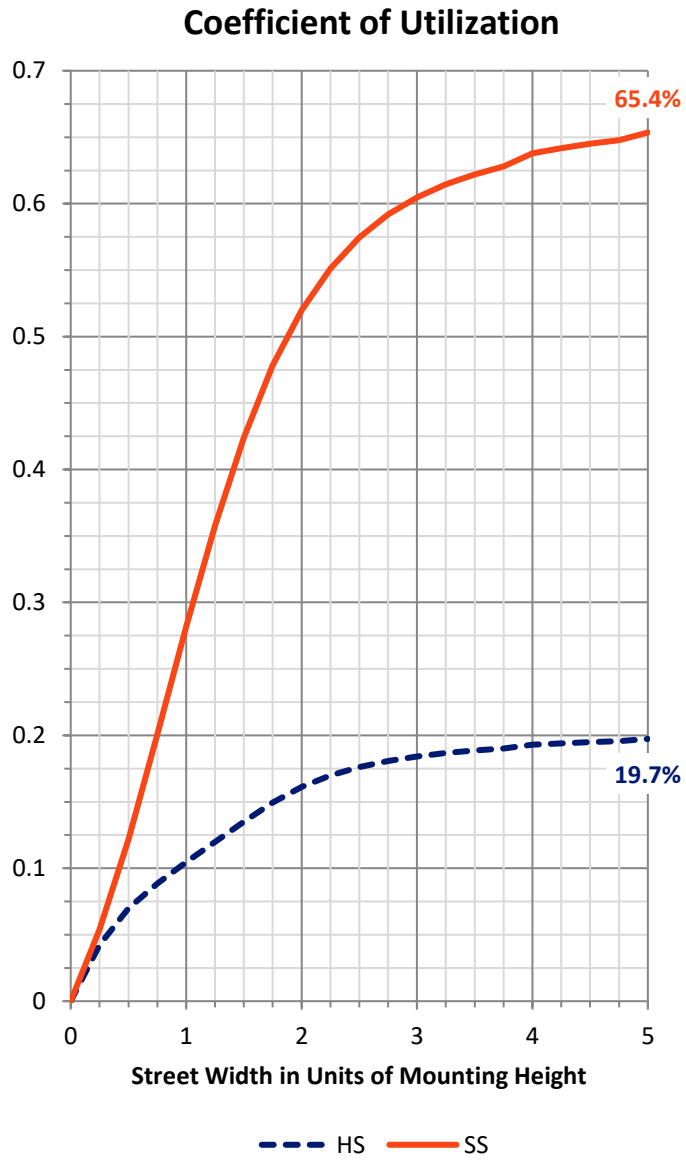
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1755.4	328.8	2084.2
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	5788.3	686.1	6474.3
	% Fixture	67.6	8.0	75.6
Total	Lumens	7543.6	1014.9	8558.5
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.3	0.2
10°-20°	57.2	0.7
20°-30°	115.5	1.3
30°-40°	244.4	2.9
40°-50°	569.9	6.7
50°-60°	1698.5	19.8
60°-70°	2721.7	31.8
70°-80°	1563.5	18.3
80°-90°	554.5	6.5
90°-100°	327.0	3.8
100°-110°	197.6	2.3
110°-120°	148.6	1.7
120°-130°	125.8	1.5
130°-140°	83.5	1.0
140°-150°	78.5	0.9
150°-160°	34.8	0.4
160°-170°	14.4	0.2
170°-180°	4.8	0.1
0°-90°	7543.6	88.1
0°-180°	8558.5	100.0



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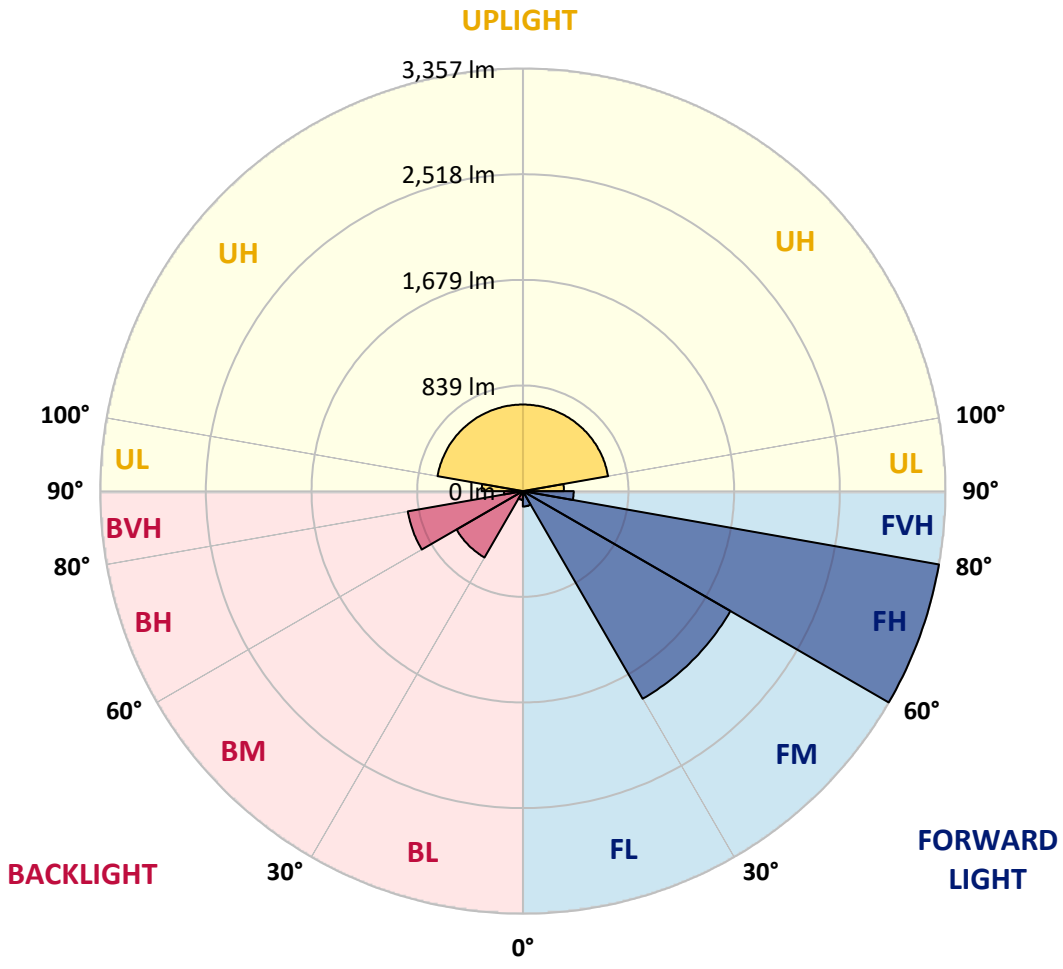
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	122.6	1.4			
FM	(30°-60°)	1904.3	22.3			
FH	(60°-80°)	3357.4	39.2			G2/5000
FVH	(80°-90°)	403.9	4.7			G3/500
BL	(0°-30°)	68.4	0.8	B0/110		
BM	(30°-60°)	608.6	7.1	B1/1000		
BH	(60°-80°)	927.8	10.8	B2/1000		G2/1000
BVH	(80°-90°)	150.6	1.8			G2/225
UL	(90°-100°)	327.0	3.8		U3/500	
UH	(100°-180°)	687.8	8.0		U4/1000	

BUG Rating: B2-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9
2.5°	236.7	234.9	239.5	243.1	247.6	241.3	230.4	241.3	244.9	255.8	263.9
5°	201.4	202.3	206.8	216.8	225.8	224.0	195.9	159.6	148.8	144.2	145.1
7.5°	199.5	198.6	195.9	195.0	200.5	220.4	217.7	191.4	171.4	154.2	137.0
10°	210.4	213.1	215.9	215.9	212.2	199.5	198.6	196.8	189.6	181.4	170.5
12.5°	260.3	263.9	266.7	257.6	245.8	233.1	223.1	206.8	199.5	195.0	186.8
15°	314.7	318.4	313.8	296.6	275.7	252.2	243.1	244.0	234.0	222.2	205.0
17.5°	343.8	341.9	322.9	302.9	286.6	268.5	255.8	247.6	244.0	239.5	222.2
20°	325.6	321.1	309.3	301.1	299.3	289.3	281.2	273.9	269.4	259.4	238.5
22.5°	312.0	312.0	310.2	308.4	319.3	314.7	311.1	301.1	294.8	282.1	251.2
25°	329.2	329.2	330.2	327.4	341.9	341.9	341.9	331.1	322.9	304.8	267.6
27.5°	353.7	352.8	355.6	353.7	366.4	369.2	374.6	366.4	354.6	332.9	285.7
30°	380.0	380.0	382.8	384.6	397.3	403.6	410.0	406.3	391.8	365.5	316.6
32.5°	408.2	407.3	415.4	424.5	431.7	443.5	446.3	455.3	440.8	410.0	361.9
35°	449.0	451.7	473.5	492.5	513.4	520.6	533.3	568.7	554.2	512.5	457.1
37.5°	649.4	635.8	630.4	608.6	605.9	648.5	663.9	697.5	668.5	612.2	527.9
40°	688.4	672.1	664.8	644.0	651.2	739.2	723.8	844.4	773.7	683.9	629.5
42.5°	648.5	645.8	731.1	747.4	738.3	878.0	848.1	1071.2	995.9	787.3	726.5
45°	782.8	775.5	811.8	840.8	863.5	1114.7	1096.6	1331.5	1298.9	958.7	898.9
47.5°	883.4	876.2	917.9	1015.0	1147.4	1419.5	1525.6	1880.3	1769.6	1318.8	1182.8
50°	1184.6	1180.0	1292.5	1396.8	1615.4	2017.2	2308.4	2691.1	2528.8	1842.2	1591.8
52.5°	1469.4	1483.9	1615.4	1815.9	2047.1	2772.8	3188.2	3456.7	3454.8	2399.1	2043.5
55°	1673.5	1722.4	1877.5	2239.4	2560.5	3443.1	4003.6	4202.2	4369.1	3200.9	2488.9
57.5°	2069.8	2155.1	2303.8	2662.1	3076.6	4253.9	5053.9	5021.3	5321.5	4032.6	2973.2
60°	2477.1	2576.8	2626.7	2956.0	3500.2	5034.9	5775.9	5699.7	6001.8	4756.4	3483.0
62.5°	2604.1	2702.0	2751.0	3109.3	3805.9	5477.5	6108.8	6138.7	6326.5	5272.5	3785.0
65°	2683.9	2796.3	2867.1	3190.0	3799.5	5670.7	6378.2	6406.3	6524.2	5494.7	3941.0
67.5°	2669.4	2795.4	2886.1	3175.5	3589.1	5510.2	6311.1	6184.1	6341.9	5336.0	3776.8
70°	2380.9	2490.7	2581.4	2804.5	2995.9	4642.1	5460.3	5250.7	5414.0	4458.0	3118.3
72.5°	1945.6	1990.9	2069.8	2175.0	2270.3	3444.0	4165.0	3985.5	4079.8	3344.2	2336.5
75°	1598.2	1589.1	1659.8	1736.0	1706.1	2516.1	3295.2	3131.0	3219.0	2539.7	1863.9
77.5°	1184.6	1180.0	1282.5	1276.2	1230.8	1742.4	2612.2	2493.4	2505.2	1875.7	1395.9
80°	712.0	725.6	825.4	845.3	791.8	1093.0	1864.8	1808.6	1724.2	1281.6	978.7
82.5°	499.8	520.6	573.2	595.0	568.7	798.2	1235.4	1196.4	1096.6	929.7	689.3
85°	509.7	513.4	519.7	521.5	509.7	716.5	958.7	937.0	930.6	779.1	568.7
87.5°	509.7	517.9	523.4	522.4	501.6	671.2	884.3	849.9	858.0	728.3	549.7
90°	457.1	471.7	470.7	473.5	456.2	606.8	801.8	773.7	784.6	656.7	499.8
92.5°	373.7	383.7	393.6	412.7	387.3	516.1	677.5	651.2	664.8	558.7	425.4
95°	347.4	356.5	362.8	372.8	347.4	459.0	599.5	567.8	573.2	474.4	360.1
97.5°	281.2	286.6	293.9	295.7	277.5	352.8	456.2	429.0	432.6	368.3	283.0
100°	235.8	240.4	246.7	246.7	234.9	292.1	361.0	346.5	344.7	301.1	239.5
102.5°	223.1	224.9	234.9	233.1	221.3	269.4	326.5	317.5	318.4	279.4	224.9
105°	219.5	219.5	229.5	224.9	215.0	256.7	305.7	302.9	302.0	265.8	215.9
107.5°	215.9	215.9	225.8	221.3	213.1	242.2	287.5	278.5	277.5	253.1	204.1
110°	201.4	204.1	215.0	209.5	203.2	228.6	263.9	257.6	257.6	238.5	195.0

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REPORT NUMBER: P856204
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	178.7	180.5	190.5	185.9	181.4	203.2	234.0	225.8	*226.8*	214.1	182.3
115°	166.9	169.6	179.6	173.2	169.6	189.6	216.8	211.3	*213.1*	201.4	172.3
117.5°	167.8	168.7	176.0	176.9	169.6	185.9	200.5	202.3	*205.0*	197.7	175.1
120°	204.1	199.5	203.2	198.6	195.0	214.1	231.3	233.1	*232.2*	218.6	174.1
122.5°	205.9	196.8	206.8	200.5	196.8	217.7	236.7	241.3	*236.7*	224.9	177.8
125°	164.2	166.9	167.8	169.6	173.2	195.9	205.9	206.8	*207.7*	204.1	172.3
127.5°	144.2	143.3	138.8	139.7	147.8	167.8	175.1	180.5	*176.9*	175.1	155.1
130°	137.9	139.7	138.8	138.8	143.3	158.7	164.2	172.3	*169.6*	166.0	141.5
132.5°	127.0	128.8	137.0	146.9	145.1	150.6	152.4	160.5	*161.4*	161.4	142.4
135°	120.6	122.4	128.8	141.5	137.9	140.6	139.7	146.9	*147.8*	148.8	134.2
137.5°	123.4	124.3	120.6	122.4	125.2	137.0	140.6	147.8	*147.8*	144.2	125.2
140°	129.7	129.7	121.5	118.8	124.3	142.4	149.7	161.4	*159.6*	153.3	129.7
142.5°	119.7	121.5	126.1	131.5	143.3	193.2	193.2	215.9	*223.1*	224.9	156.9
145°	156.0	156.9	158.7	161.4	184.1	253.1	230.4	246.7	*253.1*	259.4	188.7
147.5°	179.6	181.4	179.6	172.3	193.2	216.8	205.9	213.1	*220.4*	222.2	189.6
150°	140.6	138.8	137.9	137.0	159.6	166.9	157.8	156.9	*162.4*	166.9	146.9
152.5°	102.5	101.6	100.7	99.8	119.7	115.2	108.8	108.8	*110.7*	111.6	103.4
155°	90.7	89.8	88.0	88.9	101.6	97.1	91.6	89.8	*91.6*	90.7	86.2
157.5°	74.4	72.6	72.6	76.2	82.5	77.1	73.5	70.7	*71.7*	70.7	71.7
160°	61.7	60.8	61.7	66.2	69.8	65.3	61.7	59.9	*59.9*	61.7	65.3
162.5°	55.3	54.4	55.3	57.1	59.0	54.4	51.7	51.7	*52.6*	56.2	63.5
165°	48.1	48.1	49.0	49.9	50.8	48.1	47.2	47.2	*49.0*	54.4	62.6
167.5°	46.3	46.3	46.3	46.3	46.3	45.4	44.4	47.2	*49.0*	51.7	57.1
170°	45.4	44.4	45.4	45.4	45.4	45.4	45.4	48.1	*48.1*	49.0	51.7
172.5°	46.3	46.3	46.3	47.2	49.0	49.9	49.0	50.8	*49.9*	49.9	49.9
175°	47.2	47.2	48.1	49.0	49.9	50.8	51.7	51.7	*51.7*	52.6	52.6
177.5°	47.2	47.2	48.1	49.0	49.9	48.1	46.3	45.4	*44.4*	44.4	44.4
180°	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	*41.7*	41.7	41.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9
2.5°	256.7	234.0	202.3	215.9	257.6	249.4	207.7	182.3	184.1	202.3	204.1
5°	149.7	154.2	175.1	218.6	226.8	187.8	151.5	146.0	176.0	217.7	225.8
7.5°	135.1	135.1	152.4	212.2	238.5	195.9	147.8	133.3	156.0	190.5	195.9
10°	163.3	157.8	159.6	181.4	191.4	156.9	132.4	126.1	138.8	143.3	141.5
12.5°	184.1	187.8	205.0	200.5	156.9	127.9	119.7	118.8	126.1	130.6	129.7
15°	197.7	191.4	178.7	164.2	149.7	133.3	121.5	114.3	106.1	102.5	102.5
17.5°	210.4	197.7	175.1	161.4	146.9	135.1	124.3	113.4	109.7	110.7	110.7
20°	225.8	210.4	189.6	174.1	156.9	140.6	127.0	115.2	112.5	113.4	112.5
22.5°	237.6	224.0	202.3	182.3	164.2	146.0	132.4	120.6	117.0	116.1	116.1
25°	252.2	240.4	217.7	193.2	171.4	154.2	142.4	128.8	122.4	120.6	120.6
27.5°	271.2	261.2	235.8	209.5	184.1	164.2	151.5	137.0	127.9	124.3	123.4
30°	300.2	286.6	258.5	225.8	199.5	178.7	163.3	145.1	134.2	127.9	127.0
32.5°	343.8	326.5	289.3	248.5	216.8	195.0	176.0	153.3	139.7	132.4	131.5
35°	436.3	417.2	370.1	312.9	266.7	222.2	192.3	162.4	145.1	136.1	135.1
37.5°	494.3	459.9	402.7	351.0	294.8	268.5	230.4	190.5	152.4	140.6	138.8
40°	578.7	534.2	462.6	392.7	293.9	293.0	267.6	232.2	179.6	148.8	146.0
42.5°	641.3	584.1	494.3	416.3	296.6	304.8	283.0	252.2	213.1	173.2	168.7
45°	769.2	696.6	554.2	437.2	300.2	318.4	296.6	263.9	229.5	201.4	198.6
47.5°	1008.6	907.9	670.3	477.1	341.0	363.7	324.7	286.6	253.1	224.9	218.6
50°	1343.3	1222.7	810.9	512.5	410.9	462.6	399.1	341.0	301.1	279.4	273.0
52.5°	1736.0	1600.9	898.9	567.8	495.2	584.1	514.3	446.3	393.6	397.3	393.6
55°	2174.1	2014.5	976.0	651.2	603.2	719.3	643.1	584.1	556.0	634.9	639.4
57.5°	2596.8	2426.3	1024.0	739.2	723.8	875.3	786.4	744.7	755.5	986.8	1041.3
60°	3000.4	2731.0	1061.2	821.8	825.4	997.7	929.7	921.5	955.1	1251.7	1334.2
62.5°	3233.5	2887.0	1059.4	875.3	888.9	1073.0	1013.1	1017.7	1043.1	1295.2	1364.2
65°	*3392.3*	*2966.0*	*1041.3*	*902.5*	*916.1*	*1100.2*	*1023.1*	*987.7*	*971.4*	*1143.8*	*1217.2*
67.5°	3297.0	2813.6	997.7	878.9	897.0	1056.7	960.5	871.6	843.5	937.0	980.5
70°	2787.3	2351.0	888.9	799.1	810.9	891.6	810.0	712.9	684.8	733.8	753.7
72.5°	2106.1	1805.0	797.3	738.3	710.2	737.4	657.6	556.0	549.7	576.0	579.6
75°	1682.5	1416.8	726.5	665.8	590.5	618.6	522.4	413.6	405.4	407.3	398.2
77.5°	1268.0	1054.0	611.3	524.3	447.2	493.4	388.2	285.7	272.1	266.7	256.7
80°	868.0	732.0	415.4	351.0	317.5	361.9	276.6	209.5	208.6	206.8	195.9
82.5°	615.9	565.1	339.2	298.4	269.4	284.8	240.4	195.9	191.4	192.3	180.5
85°	538.8	511.6	327.4	302.0	273.9	273.0	229.5	183.2	181.4	182.3	171.4
87.5°	515.2	485.3	320.2	288.4	261.2	247.6	202.3	161.4	166.0	168.7	158.7
90°	461.7	430.8	290.2	257.6	231.3	207.7	171.4	146.0	153.3	155.1	146.0
92.5°	389.1	357.4	225.8	206.8	194.1	190.5	160.5	138.8	144.2	145.1	137.9
95°	329.2	300.2	196.8	182.3	173.2	172.3	145.1	126.1	128.8	127.9	121.5
97.5°	264.9	244.0	172.3	158.7	148.8	143.3	124.3	109.7	113.4	115.2	110.7
100°	225.8	214.1	160.5	148.8	137.0	129.7	113.4	101.6	105.2	108.8	105.2
102.5°	212.2	203.2	157.8	145.1	132.4	123.4	107.9	95.2	97.1	101.6	98.9
105°	201.4	193.2	153.3	139.7	127.9	117.9	105.2	89.8	88.9	93.4	92.5
107.5°	189.6	182.3	150.6	134.2	121.5	112.5	100.7	86.2	82.5	85.3	84.4
110°	183.2	176.0	145.1	127.9	114.3	106.1	95.2	83.4	78.9	79.8	79.8

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

Scaled Data Report

REPORT NUMBER: P856204
CATALOG NUMBER: FFX-CLB-60-727-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	170.5	162.4	133.3	117.0	106.1	98.9	88.0	79.8	74.4	76.2	77.1
115°	162.4	151.5	122.4	110.7	98.9	92.5	86.2	78.9	72.6	72.6	73.5
117.5°	167.8	146.9	114.3	105.2	98.9	97.1	95.2	84.4	71.7	70.7	70.7
120°	160.5	147.8	124.3	121.5	115.2	109.7	98.0	83.4	69.8	68.0	68.0
122.5°	156.9	154.2	140.6	131.5	119.7	108.8	91.6	76.2	67.1	65.3	65.3
125°	155.1	152.4	136.1	118.8	103.4	92.5	81.6	71.7	66.2	63.5	63.5
127.5°	142.4	129.7	109.7	99.8	89.8	85.3	76.2	69.8	63.5	59.9	59.9
130°	131.5	119.7	102.5	91.6	83.4	79.8	73.5	67.1	60.8	57.1	56.2
132.5°	129.7	117.9	99.8	86.2	78.9	75.3	71.7	64.4	57.1	53.5	52.6
135°	120.6	107.0	88.9	81.6	77.1	74.4	71.7	62.6	55.3	51.7	51.7
137.5°	111.6	98.0	84.4	80.7	77.1	74.4	66.2	57.1	51.7	49.0	49.0
140°	112.5	97.1	86.2	83.4	78.0	69.8	62.6	56.2	51.7	48.1	47.2
142.5°	119.7	100.7	87.1	78.9	75.3	70.7	68.0	60.8	51.7	45.4	43.5
145°	131.5	108.8	98.0	94.3	88.0	79.8	69.8	56.2	47.2	41.7	40.8
147.5°	145.1	122.4	109.7	99.8	87.1	73.5	59.9	49.0	41.7	39.9	39.0
150°	126.1	104.3	94.3	80.7	69.8	59.0	49.0	43.5	39.9	39.0	39.0
152.5°	95.2	78.0	69.8	63.5	57.1	51.7	46.3	42.6	39.9	38.1	38.1
155°	82.5	73.5	65.3	59.0	52.6	47.2	42.6	40.8	38.1	38.1	37.2
157.5°	72.6	68.0	57.1	51.7	47.2	44.4	42.6	39.9	39.0	38.1	38.1
160°	66.2	63.5	52.6	48.1	45.4	43.5	43.5	41.7	39.0	38.1	38.1
162.5°	64.4	61.7	50.8	46.3	43.5	44.4	46.3	45.4	41.7	39.9	39.9
165°	63.5	61.7	51.7	45.4	43.5	44.4	49.0	49.9	45.4	42.6	41.7
167.5°	58.0	57.1	54.4	49.9	47.2	47.2	49.9	50.8	49.0	49.0	48.1
170°	52.6	52.6	53.5	54.4	52.6	49.9	48.1	48.1	50.8	53.5	54.4
172.5°	50.8	51.7	53.5	56.2	56.2	52.6	49.9	49.0	51.7	55.3	56.2
175°	53.5	54.4	55.3	55.3	53.5	52.6	51.7	50.8	52.6	56.2	57.1
177.5°	44.4	44.4	45.4	45.4	44.4	45.4	44.4	42.6	42.6	42.6	42.6
180°	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7

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

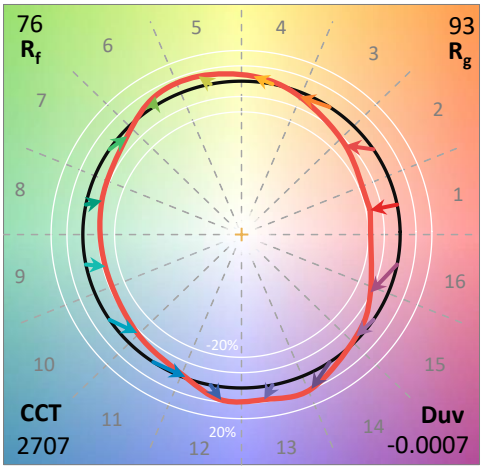
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

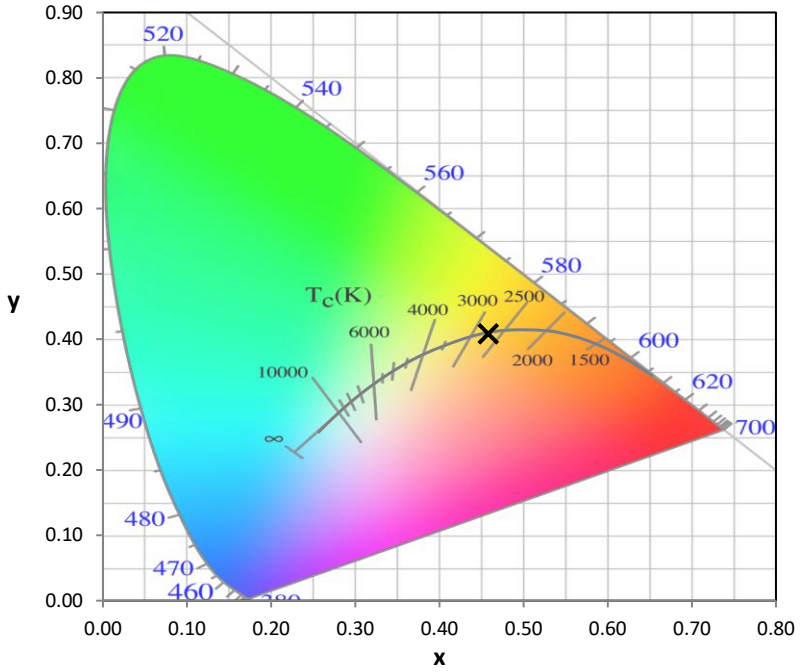
REPORT NUMBER: SP1-2406-133-3

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

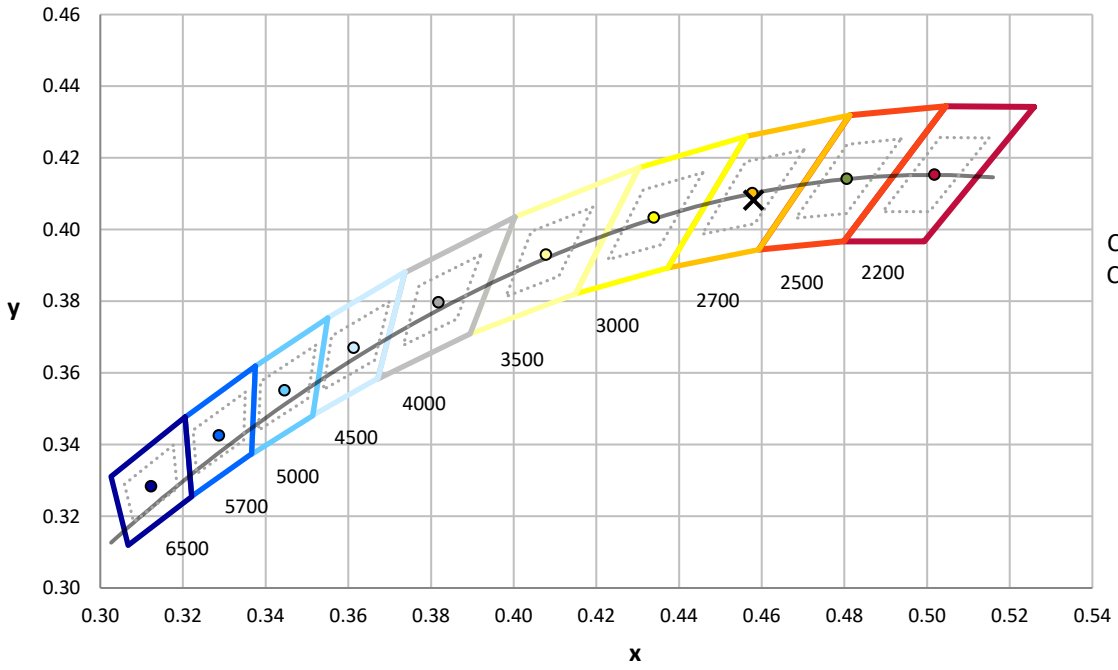
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2406-133-3

CIE 1931 Chromaticity Diagram



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



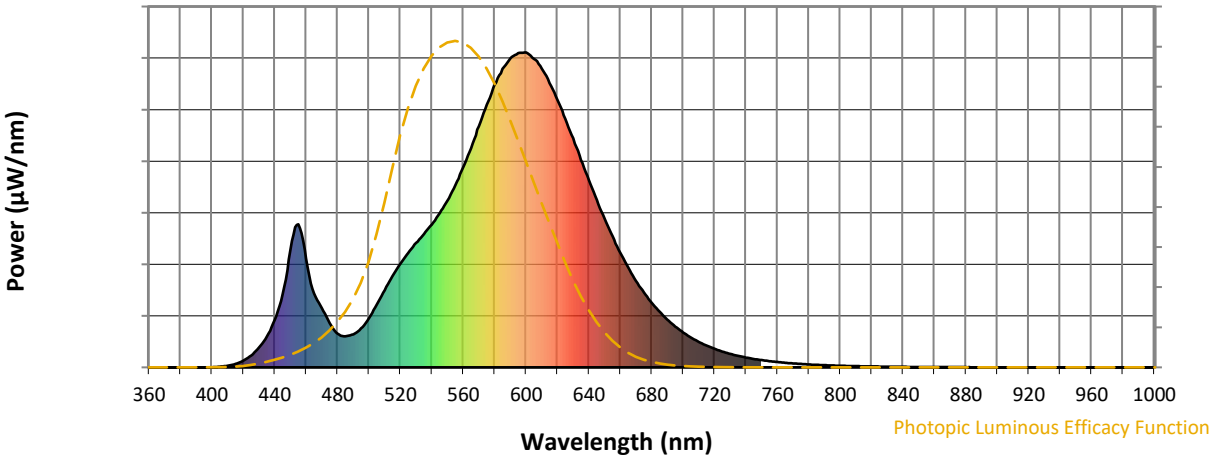
CCT = 2707K
CIE x = 0.4580
CIE y = 0.4082
Duv = -0.0007

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



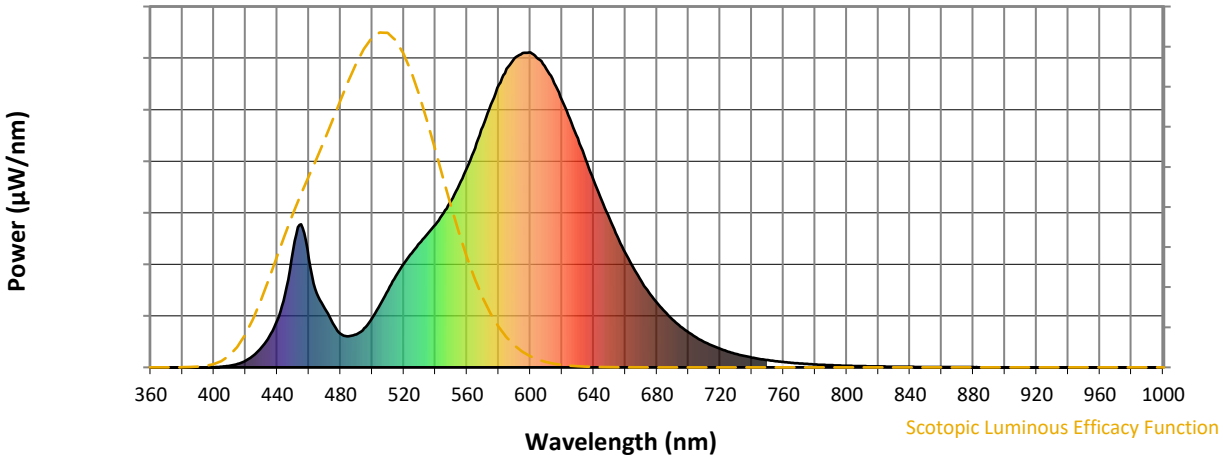
Photopic Lumens: NR

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



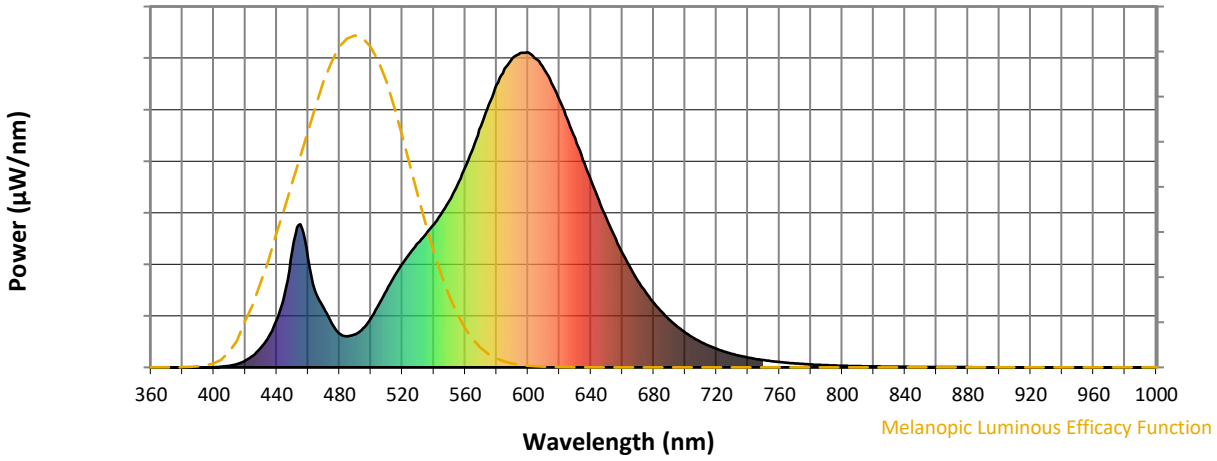
Scotopic Lumens: NR **S/P: 1.12**

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

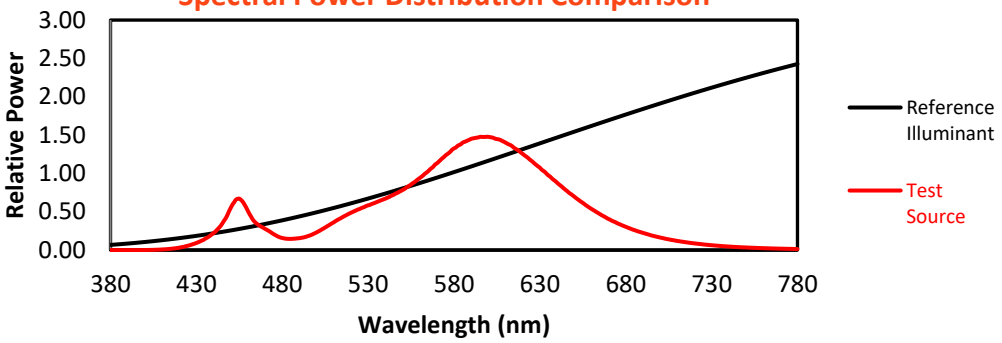
REPORT NUMBER: SP1-2406-133-3

TM-30-18

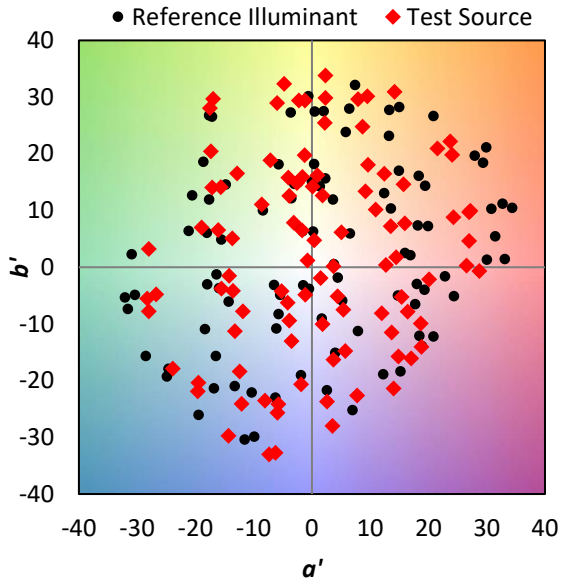
Summary

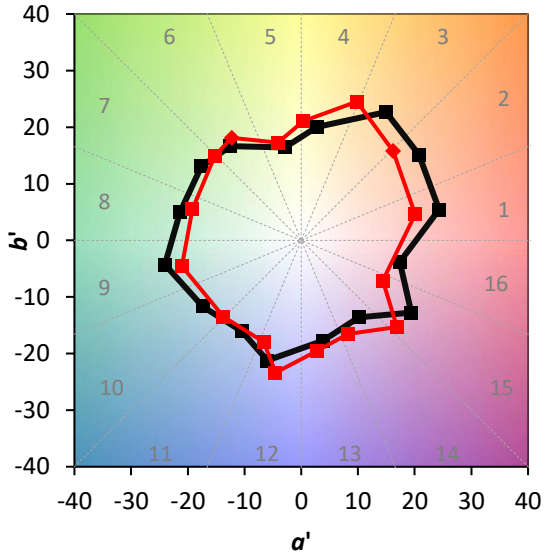
R_f = 75.5
R_g = 92.5
CIE R_a = 71.3
R_9 = -34.9

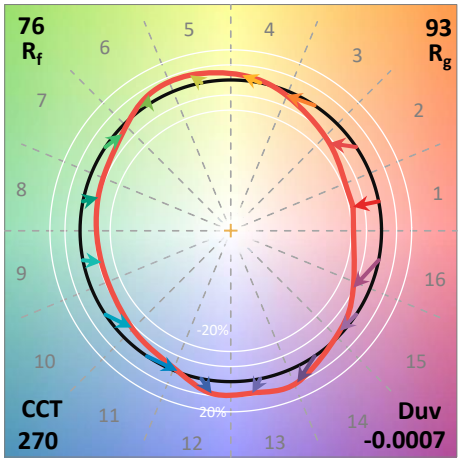
Spectral Power Distribution Comparison

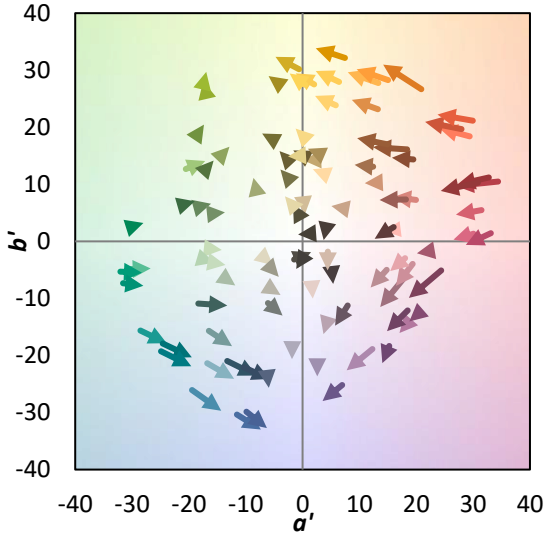


Color Vector Graphics









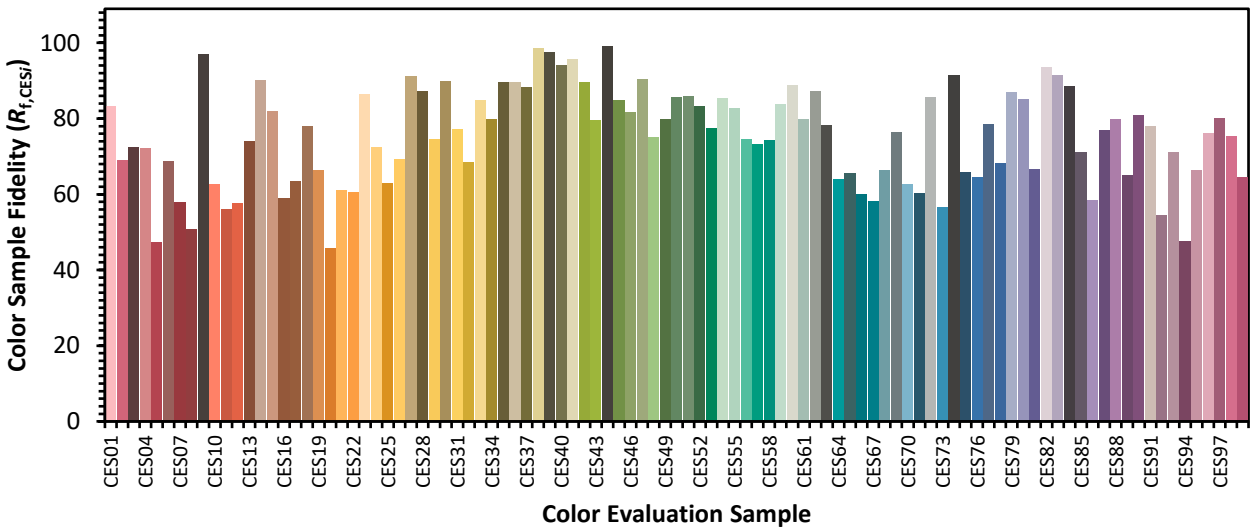
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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	



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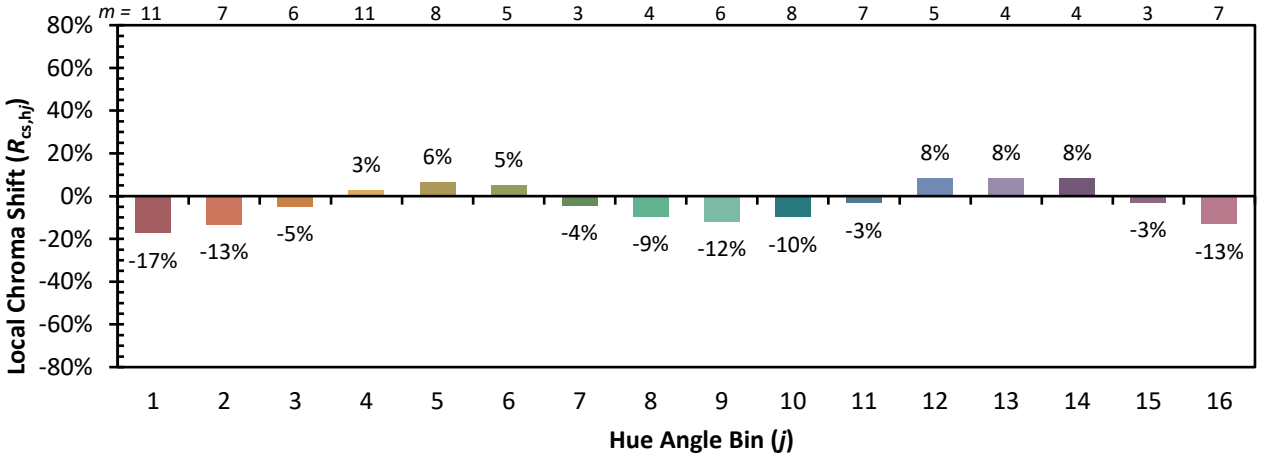
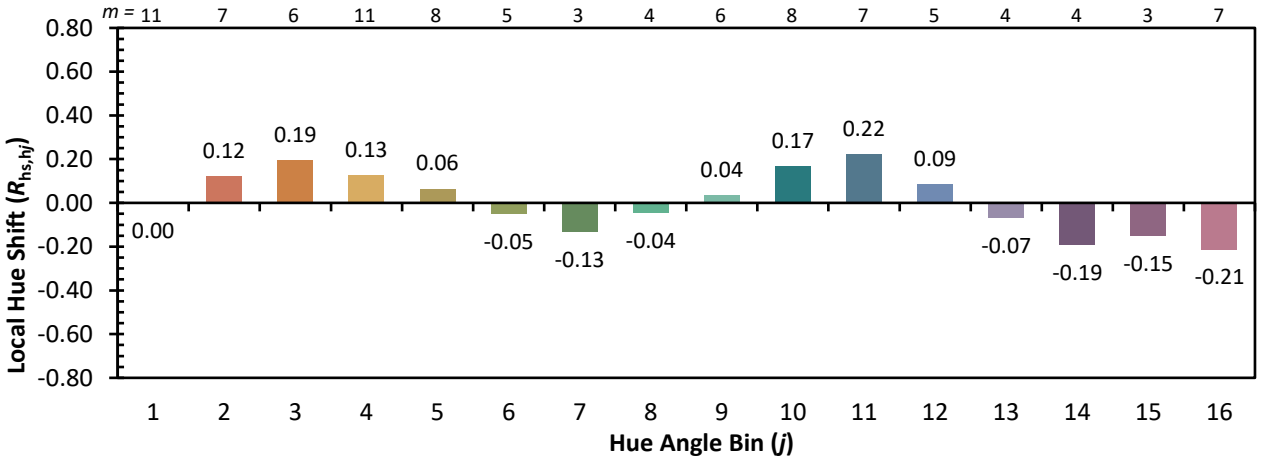
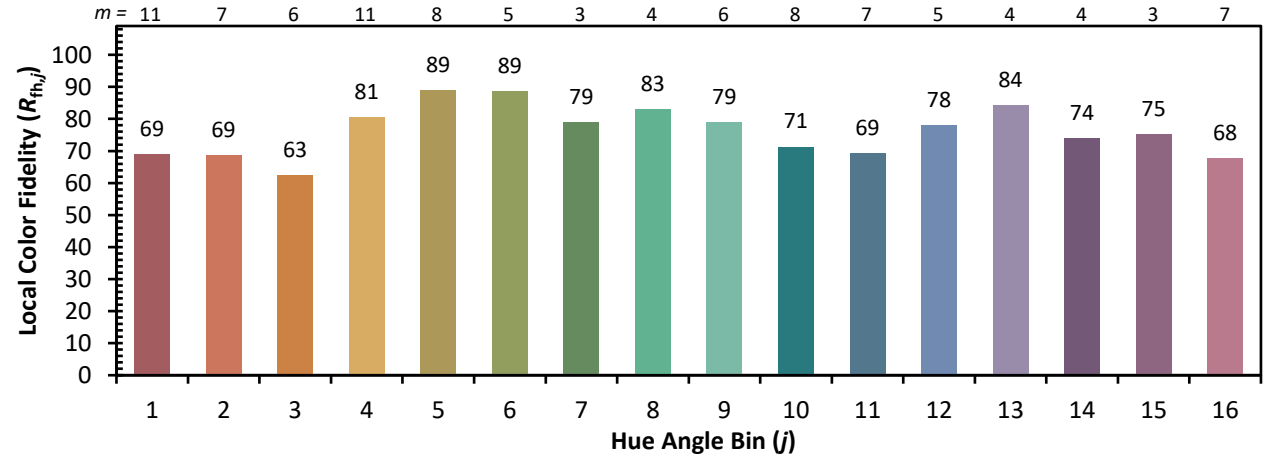
Color Rendition by Hue-Angle Bin







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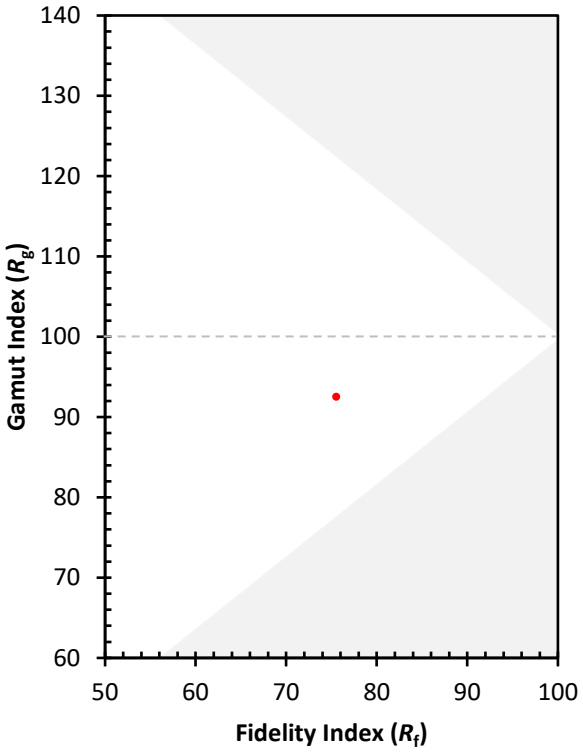
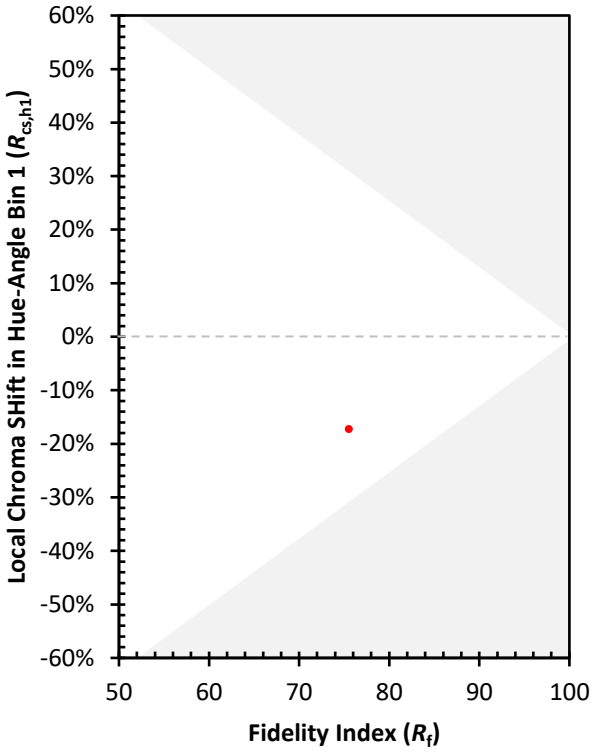
Measure Comparisons





(END OF REPORT)