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: P856206

Luminaire Tested: **FFX-CLB-40-727-U-FR-T3-UPLR**

Issue Date: 07/16/2024

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P856206
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/16/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-727-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:	5738.3 lumens
Efficiency:	N/A
Efficacy:	146.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - U3 - 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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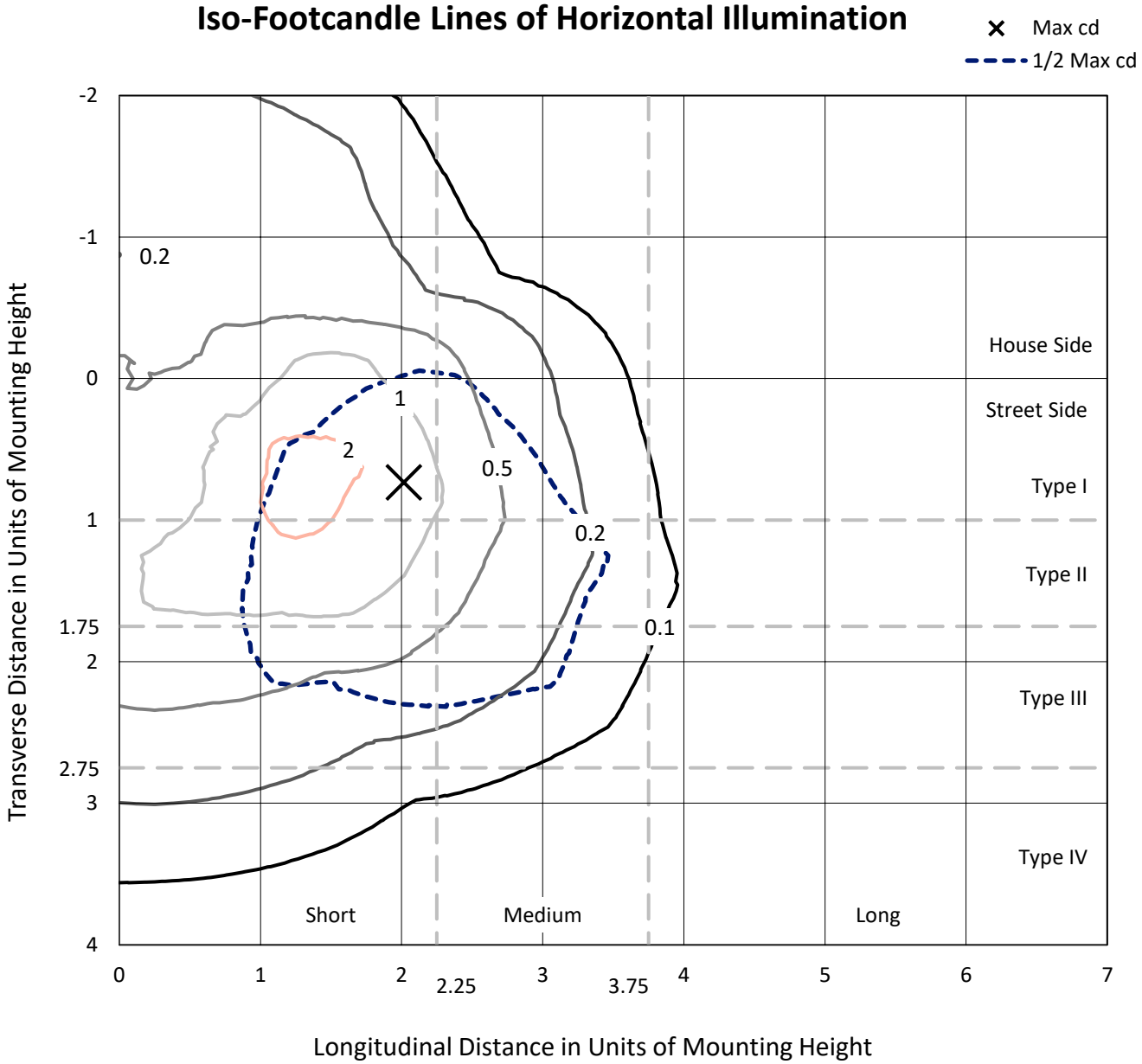
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
Type III - Short - N/A

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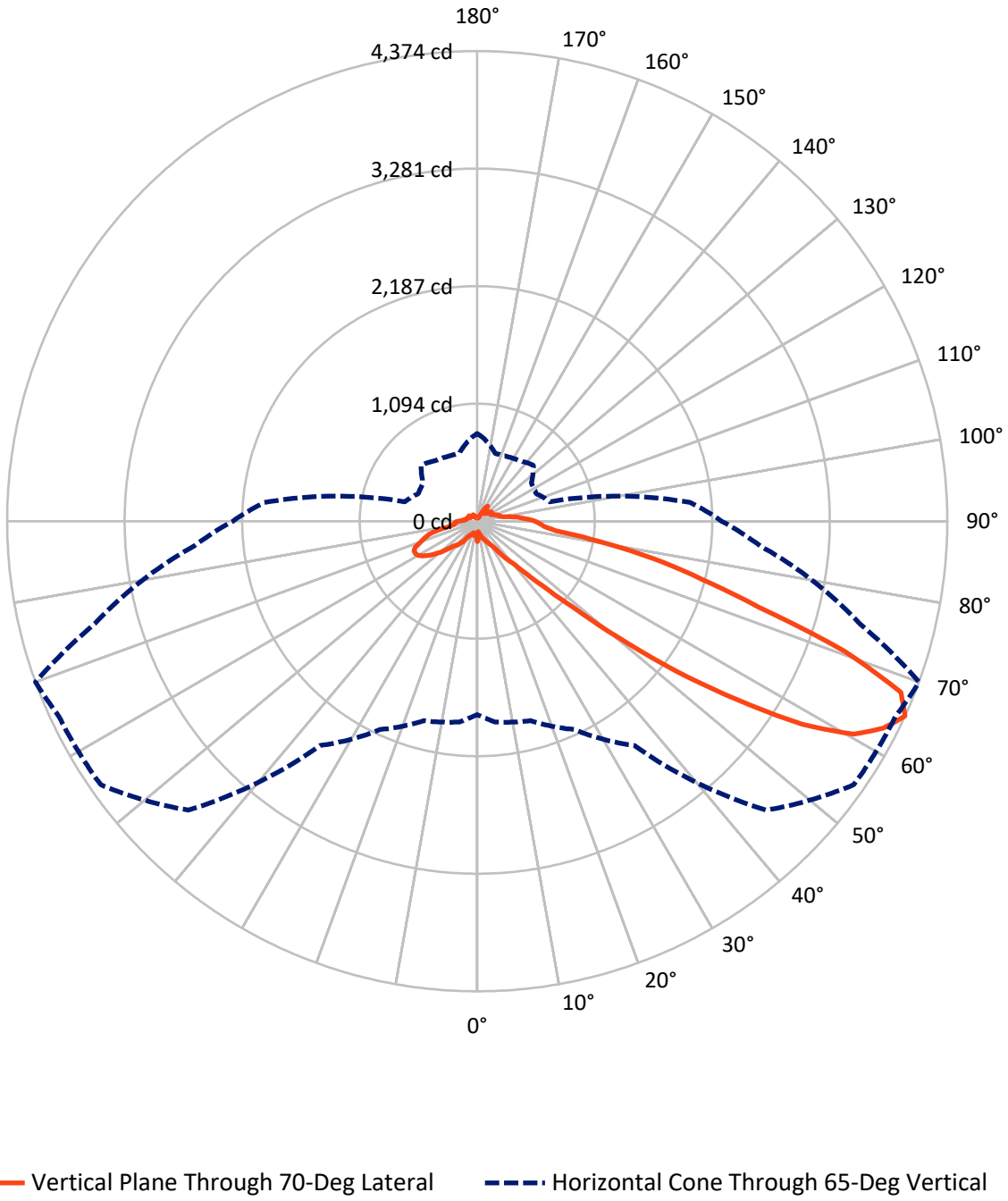
Luminous Intensity Polar Plot



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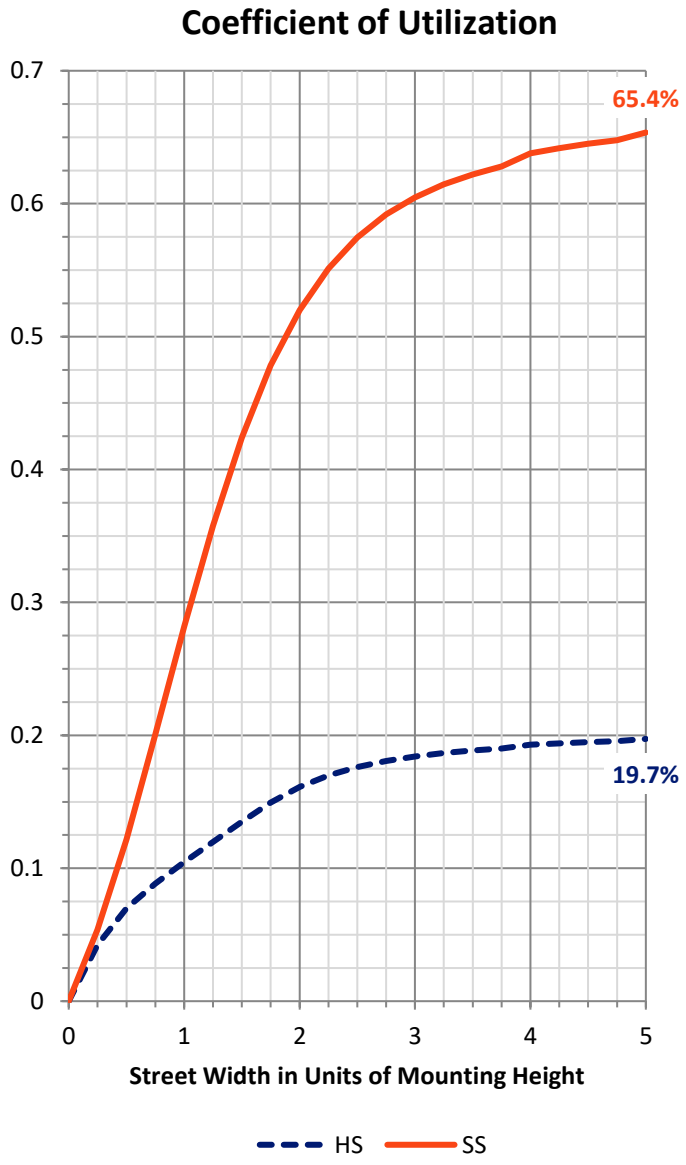
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.9	220.5	1397.4
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	3880.9	460.0	4340.9
	% Fixture	67.6	8.0	75.6
Total	Lumens	5057.8	680.4	5738.3
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	0.2
10°-20°	38.4	0.7
20°-30°	77.5	1.3
30°-40°	163.9	2.9
40°-50°	382.1	6.7
50°-60°	1138.8	19.8
60°-70°	1824.8	31.8
70°-80°	1048.3	18.3
80°-90°	371.8	6.5
90°-100°	219.3	3.8
100°-110°	132.5	2.3
110°-120°	99.6	1.7
120°-130°	84.4	1.5
130°-140°	56.0	1.0
140°-150°	52.6	0.9
150°-160°	23.3	0.4
160°-170°	9.6	0.2
170°-180°	3.2	0.1
0°-90°	5057.8	88.1
0°-180°	5738.3	100.0



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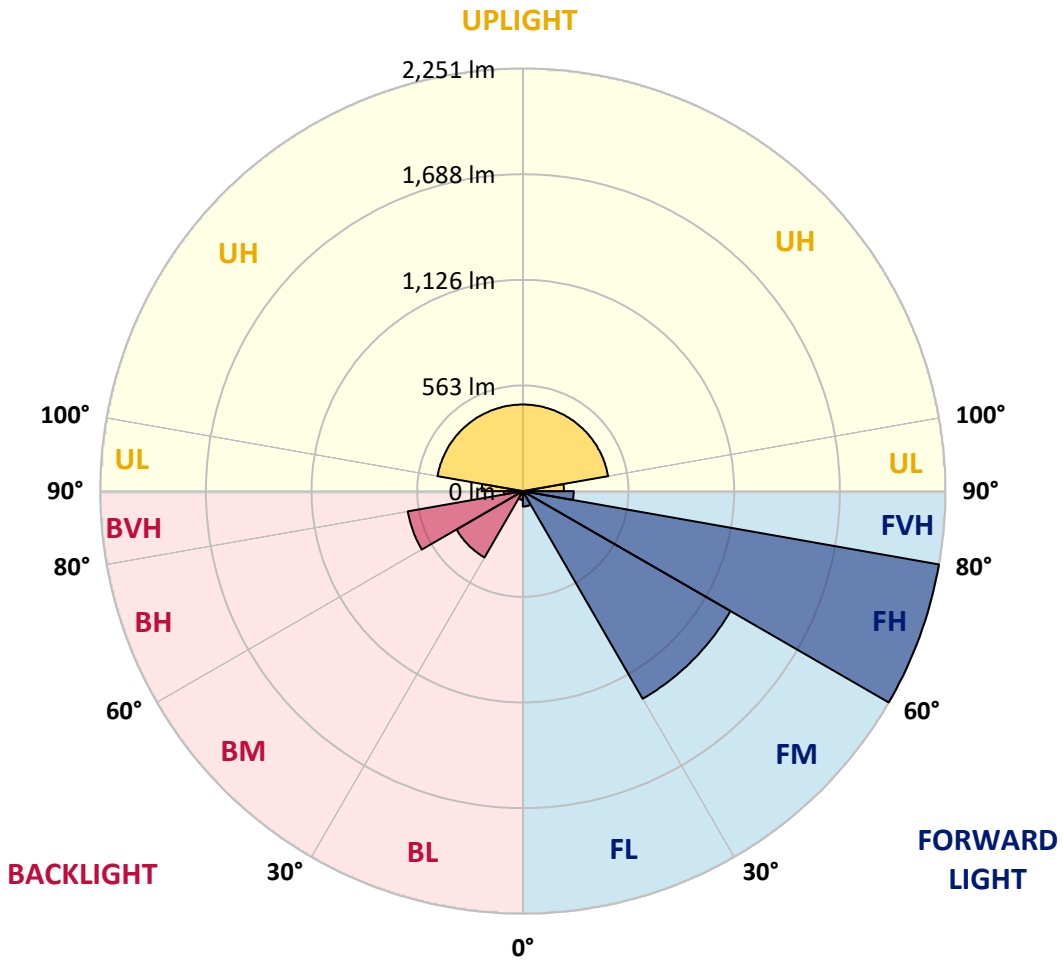
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	82.2	1.4			
FM	(30°-60°)	1276.8	22.3			
FH	(60°-80°)	2251.0	39.2			G2/5000
FVH	(80°-90°)	270.8	4.7			G3/500
BL	(0°-30°)	45.9	0.8	B0/110		
BM	(30°-60°)	408.0	7.1	B1/1000		
BH	(60°-80°)	622.1	10.8	B2/1000		G2/1000
BVH	(80°-90°)	101.0	1.8			G2/225
UL	(90°-100°)	219.3	3.8		U3/500	
UH	(100°-180°)	461.2	8.0		U3/500	

BUG Rating: B2-U3-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	190.3	190.3	190.3	190.3	190.3	190.3	190.3	190.3	*190.3*	190.3	190.3
2.5°	158.7	157.5	160.5	163.0	166.0	161.8	154.5	161.8	*164.2*	171.5	177.0
5°	135.0	135.6	138.7	145.3	151.4	150.2	131.4	107.0	*99.7*	96.7	97.3
7.5°	133.8	133.2	131.4	130.7	134.4	147.8	146.0	128.3	*114.9*	103.4	91.8
10°	141.1	142.9	144.7	144.7	142.3	133.8	133.2	132.0	*127.1*	121.6	114.3
12.5°	174.5	177.0	178.8	172.7	164.8	156.3	149.6	138.7	*133.8*	130.7	125.3
15°	211.0	213.5	210.4	198.9	184.9	169.1	163.0	163.6	*156.9*	149.0	137.4
17.5°	230.5	229.3	216.5	203.1	192.2	180.0	171.5	166.0	*163.6*	160.5	149.0
20°	218.3	215.3	207.4	201.9	200.7	194.0	188.5	183.7	*180.6*	173.9	159.9
22.5°	209.2	209.2	208.0	206.8	214.1	211.0	208.6	201.9	*197.6*	189.1	168.5
25°	220.8	220.8	221.4	219.5	229.3	229.3	229.3	222.0	*216.5*	204.3	179.4
27.5°	237.2	236.6	238.4	237.2	245.7	247.5	251.2	245.7	*237.8*	223.2	191.6
30°	254.8	254.8	256.6	257.8	266.4	270.6	274.9	272.4	*262.7*	245.1	212.2
32.5°	273.7	273.1	278.5	284.6	289.5	297.4	299.2	305.3	*295.6*	274.9	242.6
35°	301.0	302.8	317.4	330.2	344.2	349.1	357.6	381.3	*371.6*	343.6	306.5
37.5°	435.4	426.3	422.7	408.1	406.2	434.8	445.2	467.7	*448.2*	410.5	353.9
40°	461.6	450.6	445.8	431.8	436.6	495.6	485.3	566.2	*518.7*	458.5	422.0
42.5°	434.8	433.0	490.2	501.1	495.0	588.7	568.6	718.2	*667.7*	527.9	487.1
45°	524.8	520.0	544.3	563.7	578.9	747.4	735.2	892.7	*870.8*	642.8	602.7
47.5°	592.3	587.5	615.4	680.5	769.3	951.7	1022.9	1260.7	*1186.5*	884.2	793.0
50°	794.2	791.2	866.6	936.5	1083.1	1352.5	1547.7	1804.3	*1695.5*	1235.1	1067.3
52.5°	985.2	994.9	1083.1	1217.5	1372.6	1859.1	2137.6	2317.6	*2316.4*	1608.5	1370.1
55°	1122.0	1154.8	1258.8	1501.5	1716.8	2308.5	2684.3	2817.5	*2929.4*	2146.1	1668.7
57.5°	1387.8	1444.9	1544.7	1784.9	2062.8	2852.1	3388.5	3366.6	*3567.9*	2703.8	1993.5
60°	1660.8	1727.7	1761.2	1981.9	2346.8	3375.7	3872.6	3821.5	*4024.0*	3189.0	2335.2
62.5°	1745.9	1811.6	1844.5	2084.7	2551.7	3672.5	4095.8	4115.8	*4241.7*	3535.1	2537.7
65°	*1799.5*	*1874.9*	*1922.3*	*2138.8*	*2547.5*	*3802.0*	*4276.4*	*4295.2*	*4374.3*	*3684.1*	*2642.3*
67.5°	1789.7	1874.3	1935.1	2129.1	2406.4	3694.4	4231.4	4146.2	*4252.1*	3577.6	2532.3
70°	1596.3	1669.9	1730.7	1880.3	2008.7	3112.4	3661.0	3520.5	*3629.9*	2989.0	2090.8
72.5°	1304.4	1334.9	1387.8	1458.3	1522.2	2309.1	2792.5	2672.1	*2735.4*	2242.2	1566.5
75°	1071.5	1065.4	1112.9	1164.0	1143.9	1687.0	2209.3	2099.3	*2158.3*	1702.8	1249.7
77.5°	794.2	791.2	859.9	855.6	825.2	1168.2	1751.4	1671.8	*1679.7*	1257.6	935.9
80°	477.4	486.5	553.4	566.8	530.9	732.8	1250.3	1212.6	*1156.1*	859.3	656.2
82.5°	335.1	349.1	384.3	398.9	381.3	535.2	828.3	802.1	*735.2*	623.3	462.2
85°	341.8	344.2	348.5	349.7	341.8	480.4	642.8	628.2	*623.9*	522.4	381.3
87.5°	341.8	347.2	350.9	350.3	336.3	450.0	592.9	569.8	*575.3*	488.3	368.5
90°	306.5	316.2	315.6	317.4	305.9	406.8	537.6	518.7	*526.0*	440.3	335.1
92.5°	250.6	257.2	263.9	276.7	259.7	346.0	454.3	436.6	*445.8*	374.6	285.2
95°	232.9	239.0	243.3	249.9	232.9	307.7	402.0	380.7	*384.3*	318.1	241.4
97.5°	188.5	192.2	197.0	198.3	186.1	236.6	305.9	287.6	*290.1*	246.9	189.7
100°	158.1	161.2	165.4	165.4	157.5	195.8	242.0	232.3	*231.1*	201.9	160.5
102.5°	149.6	150.8	157.5	156.3	148.4	180.6	218.9	212.8	*213.5*	187.3	150.8
105°	147.2	147.2	153.9	150.8	144.1	172.1	204.9	203.1	*202.5*	178.2	144.7
107.5°	144.7	144.7	151.4	148.4	142.9	162.4	192.8	186.7	*186.1*	169.7	136.8
110°	135.0	136.8	144.1	140.5	136.2	153.2	177.0	172.7	*172.7*	159.9	130.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	119.8	121.0	127.7	124.7	121.6	136.2	156.9	151.4	*152.0*	143.5	122.2
115°	111.9	113.7	120.4	116.2	113.7	127.1	145.3	141.7	*142.9*	135.0	115.5
117.5°	112.5	113.1	118.0	118.6	113.7	124.7	134.4	135.6	*137.4*	132.6	117.4
120°	136.8	133.8	136.2	133.2	130.7	143.5	155.1	156.3	*155.7*	146.6	116.8
122.5°	138.0	132.0	138.7	134.4	132.0	146.0	158.7	161.8	*158.7*	150.8	119.2
125°	110.1	111.9	112.5	113.7	116.2	131.4	138.0	138.7	*139.3*	136.8	115.5
127.5°	96.7	96.1	93.0	93.7	99.1	112.5	117.4	121.0	*118.6*	117.4	104.0
130°	92.4	93.7	93.0	93.0	96.1	106.4	110.1	115.5	*113.7*	111.3	94.9
132.5°	85.1	86.4	91.8	98.5	97.3	100.9	102.2	107.6	*108.2*	108.2	95.5
135°	80.9	82.1	86.4	94.9	92.4	94.3	93.7	98.5	*99.1*	99.7	90.0
137.5°	82.7	83.3	80.9	82.1	83.9	91.8	94.3	99.1	*99.1*	96.7	83.9
140°	87.0	87.0	81.5	79.7	83.3	95.5	100.3	108.2	*107.0*	102.8	87.0
142.5°	80.3	81.5	84.5	88.2	96.1	129.5	129.5	144.7	*149.6*	150.8	105.2
145°	104.6	105.2	106.4	108.2	123.5	169.7	154.5	165.4	*169.7*	173.9	126.5
147.5°	120.4	121.6	120.4	115.5	129.5	145.3	138.0	142.9	*147.8*	149.0	127.1
150°	94.3	93.0	92.4	91.8	107.0	111.9	105.8	105.2	*108.9*	111.9	98.5
152.5°	68.7	68.1	67.5	66.9	80.3	77.2	73.0	73.0	*74.2*	74.8	69.3
155°	60.8	60.2	59.0	59.6	68.1	65.1	61.4	60.2	*61.4*	60.8	57.8
157.5°	49.9	48.7	48.7	51.1	55.3	51.7	49.3	47.4	*48.0*	47.4	48.0
160°	41.4	40.7	41.4	44.4	46.8	43.8	41.4	40.1	*40.1*	41.4	43.8
162.5°	37.1	36.5	37.1	38.3	39.5	36.5	34.7	34.7	*35.3*	37.7	42.6
165°	32.2	32.2	32.8	33.4	34.1	32.2	31.6	31.6	*32.8*	36.5	42.0
167.5°	31.0	31.0	31.0	31.0	31.0	30.4	29.8	31.6	*32.8*	34.7	38.3
170°	30.4	29.8	30.4	30.4	30.4	30.4	30.4	32.2	*32.2*	32.8	34.7
172.5°	31.0	31.0	31.0	31.6	32.8	33.4	32.8	34.1	*33.4*	33.4	33.4
175°	31.6	31.6	32.2	32.8	33.4	34.1	34.7	34.7	*34.7*	35.3	35.3
177.5°	31.6	31.6	32.2	32.8	33.4	32.2	31.0	30.4	*29.8*	29.8	29.8
180°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	*28.0*	28.0	28.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	190.3	190.3	190.3	190.3	190.3	190.3	190.3	190.3	190.3	190.3	190.3
2.5°	172.1	156.9	135.6	144.7	172.7	167.2	139.3	122.2	123.5	135.6	136.8
5°	100.3	103.4	117.4	146.6	152.0	125.9	101.6	97.9	118.0	146.0	151.4
7.5°	90.6	90.6	102.2	142.3	159.9	131.4	99.1	89.4	104.6	127.7	131.4
10°	109.5	105.8	107.0	121.6	128.3	105.2	88.8	84.5	93.0	96.1	94.9
12.5°	123.5	125.9	137.4	134.4	105.2	85.7	80.3	79.7	84.5	87.6	87.0
15°	132.6	128.3	119.8	110.1	100.3	89.4	81.5	76.6	71.2	68.7	68.7
17.5°	141.1	132.6	117.4	108.2	98.5	90.6	83.3	76.0	73.6	74.2	74.2
20°	151.4	141.1	127.1	116.8	105.2	94.3	85.1	77.2	75.4	76.0	75.4
22.5°	159.3	150.2	135.6	122.2	110.1	97.9	88.8	80.9	78.4	77.8	77.8
25°	169.1	161.2	146.0	129.5	114.9	103.4	95.5	86.4	82.1	80.9	80.9
27.5°	181.8	175.1	158.1	140.5	123.5	110.1	101.6	91.8	85.7	83.3	82.7
30°	201.3	192.2	173.3	151.4	133.8	119.8	109.5	97.3	90.0	85.7	85.1
32.5°	230.5	218.9	194.0	166.6	145.3	130.7	118.0	102.8	93.7	88.8	88.2
35°	292.5	279.7	248.1	209.8	178.8	149.0	128.9	108.9	97.3	91.2	90.6
37.5°	331.4	308.3	270.0	235.3	197.6	180.0	154.5	127.7	102.2	94.3	93.0
40°	388.0	358.2	310.1	263.3	197.0	196.4	179.4	155.7	120.4	99.7	97.9
42.5°	429.9	391.6	331.4	279.1	198.9	204.3	189.7	169.1	142.9	116.2	113.1
45°	515.7	467.0	371.6	293.1	201.3	213.5	198.9	177.0	153.9	135.0	133.2
47.5°	676.2	608.7	449.4	319.9	228.7	243.9	217.7	192.2	169.7	150.8	146.6
50°	900.6	819.8	543.7	343.6	275.5	310.1	267.6	228.7	201.9	187.3	183.0
52.5°	1164.0	1073.4	602.7	380.7	332.0	391.6	344.8	299.2	263.9	266.4	263.9
55°	1457.7	1350.7	654.4	436.6	404.4	482.2	431.2	391.6	372.8	425.7	428.7
57.5°	1741.1	1626.8	686.6	495.6	485.3	586.8	527.3	499.3	506.6	661.6	698.1
60°	2011.7	1831.1	711.5	551.0	553.4	668.9	623.3	617.9	640.4	839.2	894.6
62.5°	2168.0	1935.7	710.3	586.8	596.0	719.4	679.3	682.3	699.4	868.4	914.6
65°	*2274.4*	*1988.6*	*698.1*	*605.1*	*614.2*	*737.7*	*686.0*	*662.3*	*651.3*	*766.9*	*816.1*
67.5°	2210.6	1886.4	668.9	589.3	601.4	708.5	644.0	584.4	565.6	628.2	657.4
70°	1868.8	1576.3	596.0	535.8	543.7	597.8	543.1	478.0	459.1	492.0	505.4
72.5°	1412.1	1210.2	534.5	495.0	476.2	494.4	440.9	372.8	368.5	386.2	388.6
75°	1128.1	949.9	487.1	446.4	395.9	414.7	350.3	277.3	271.8	273.1	267.0
77.5°	850.2	706.6	409.9	351.5	299.8	330.8	260.3	191.6	182.4	178.8	172.1
80°	582.0	490.8	278.5	235.3	212.8	242.6	185.5	140.5	139.9	138.7	131.4
82.5°	412.9	378.9	227.4	200.1	180.6	191.0	161.2	131.4	128.3	128.9	121.0
85°	361.2	343.0	219.5	202.5	183.7	183.0	153.9	122.8	121.6	122.2	114.9
87.5°	345.4	325.4	214.7	193.4	175.1	166.0	135.6	108.2	111.3	113.1	106.4
90°	309.5	288.9	194.6	172.7	155.1	139.3	114.9	97.9	102.8	104.0	97.9
92.5°	260.9	239.6	151.4	138.7	130.1	127.7	107.6	93.0	96.7	97.3	92.4
95°	220.8	201.3	132.0	122.2	116.2	115.5	97.3	84.5	86.4	85.7	81.5
97.5°	177.6	163.6	115.5	106.4	99.7	96.1	83.3	73.6	76.0	77.2	74.2
100°	151.4	143.5	107.6	99.7	91.8	87.0	76.0	68.1	70.5	73.0	70.5
102.5°	142.3	136.2	105.8	97.3	88.8	82.7	72.4	63.9	65.1	68.1	66.3
105°	135.0	129.5	102.8	93.7	85.7	79.1	70.5	60.2	59.6	62.6	62.0
107.5°	127.1	122.2	100.9	90.0	81.5	75.4	67.5	57.8	55.3	57.2	56.6
110°	122.8	118.0	97.3	85.7	76.6	71.2	63.9	55.9	52.9	53.5	53.5

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

Scaled Data Report

REPORT NUMBER: P856206
CATALOG NUMBER: FFX-CLB-40-727-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	114.3	108.9	89.4	78.4	71.2	66.3	59.0	53.5	49.9	51.1	51.7
115°	108.9	101.6	82.1	74.2	66.3	62.0	57.8	52.9	48.7	48.7	49.3
117.5°	112.5	98.5	76.6	70.5	66.3	65.1	63.9	56.6	48.0	47.4	47.4
120°	107.6	99.1	83.3	81.5	77.2	73.6	65.7	55.9	46.8	45.6	45.6
122.5°	105.2	103.4	94.3	88.2	80.3	73.0	61.4	51.1	45.0	43.8	43.8
125°	104.0	102.2	91.2	79.7	69.3	62.0	54.7	48.0	44.4	42.6	42.6
127.5°	95.5	87.0	73.6	66.9	60.2	57.2	51.1	46.8	42.6	40.1	40.1
130°	88.2	80.3	68.7	61.4	55.9	53.5	49.3	45.0	40.7	38.3	37.7
132.5°	87.0	79.1	66.9	57.8	52.9	50.5	48.0	43.2	38.3	35.9	35.3
135°	80.9	71.8	59.6	54.7	51.7	49.9	48.0	42.0	37.1	34.7	34.7
137.5°	74.8	65.7	56.6	54.1	51.7	49.9	44.4	38.3	34.7	32.8	32.8
140°	75.4	65.1	57.8	55.9	52.3	46.8	42.0	37.7	34.7	32.2	31.6
142.5°	80.3	67.5	58.4	52.9	50.5	47.4	45.6	40.7	34.7	30.4	29.2
145°	88.2	73.0	65.7	63.2	59.0	53.5	46.8	37.7	31.6	28.0	27.4
147.5°	97.3	82.1	73.6	66.9	58.4	49.3	40.1	32.8	28.0	26.8	26.1
150°	84.5	69.9	63.2	54.1	46.8	39.5	32.8	29.2	26.8	26.1	26.1
152.5°	63.9	52.3	46.8	42.6	38.3	34.7	31.0	28.6	26.8	25.5	25.5
155°	55.3	49.3	43.8	39.5	35.3	31.6	28.6	27.4	25.5	25.5	24.9
157.5°	48.7	45.6	38.3	34.7	31.6	29.8	28.6	26.8	26.1	25.5	25.5
160°	44.4	42.6	35.3	32.2	30.4	29.2	29.2	28.0	26.1	25.5	25.5
162.5°	43.2	41.4	34.1	31.0	29.2	29.8	31.0	30.4	28.0	26.8	26.8
165°	42.6	41.4	34.7	30.4	29.2	29.8	32.8	33.4	30.4	28.6	28.0
167.5°	38.9	38.3	36.5	33.4	31.6	31.6	33.4	34.1	32.8	32.8	32.2
170°	35.3	35.3	35.9	36.5	35.3	33.4	32.2	32.2	34.1	35.9	36.5
172.5°	34.1	34.7	35.9	37.7	37.7	35.3	33.4	32.8	34.7	37.1	37.7
175°	35.9	36.5	37.1	37.1	35.9	35.3	34.7	34.1	35.3	37.7	38.3
177.5°	29.8	29.8	30.4	30.4	29.8	30.4	29.8	28.6	28.6	28.6	28.6
180°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0

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

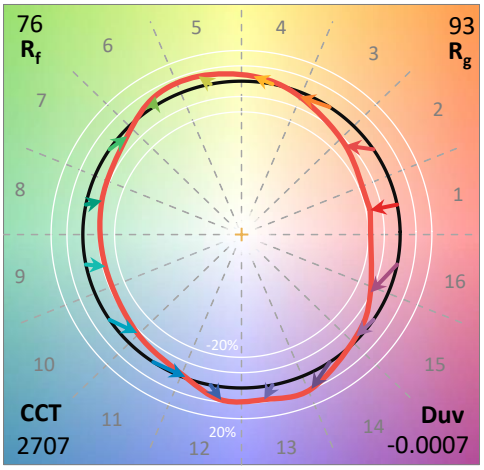
Test Information

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
CIE u':	0.2624
CIE v':	0.5261
Duv:	-0.0007
CIE x:	0.4580
CIE y:	0.4082
CIE z:	0.1338
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.99901
Rf:	75.5
Rg:	92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



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

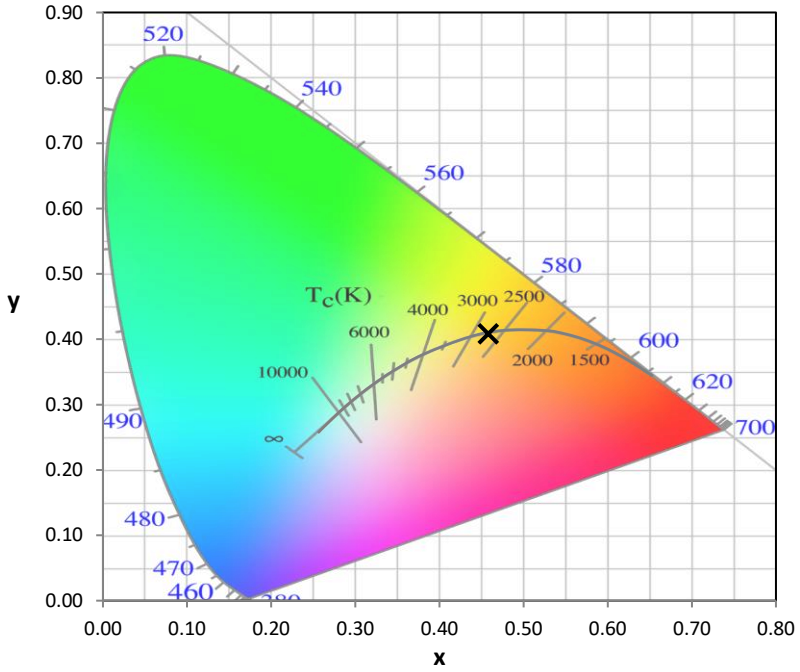
REPORT NUMBER: SP1-2406-133-3

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

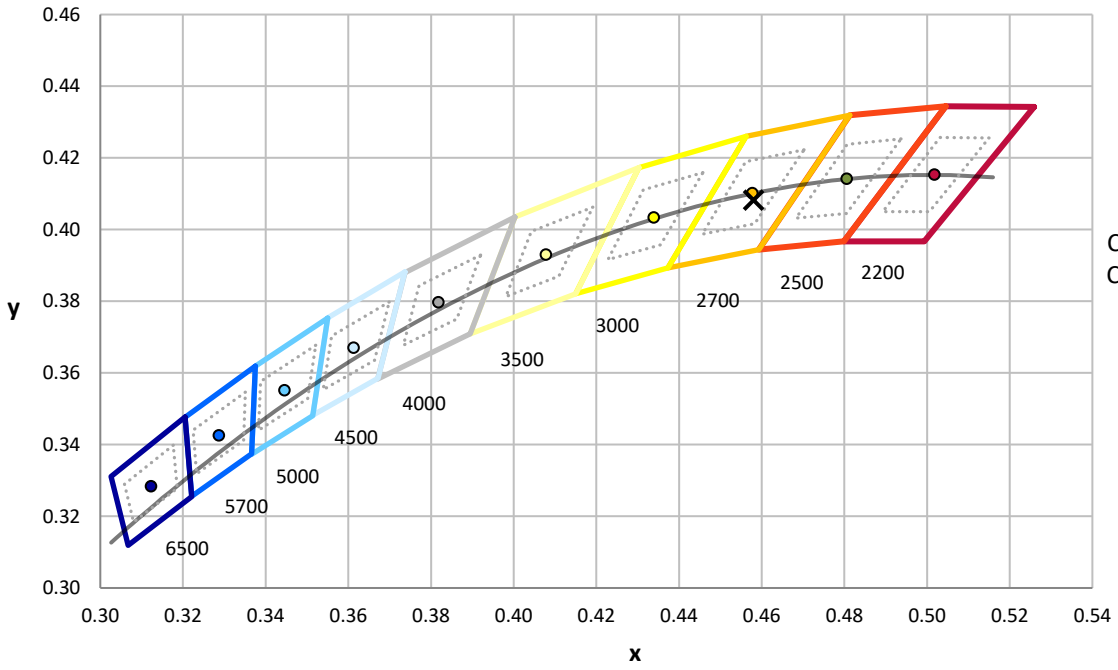
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2406-133-3

CIE 1931 Chromaticity Diagram



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



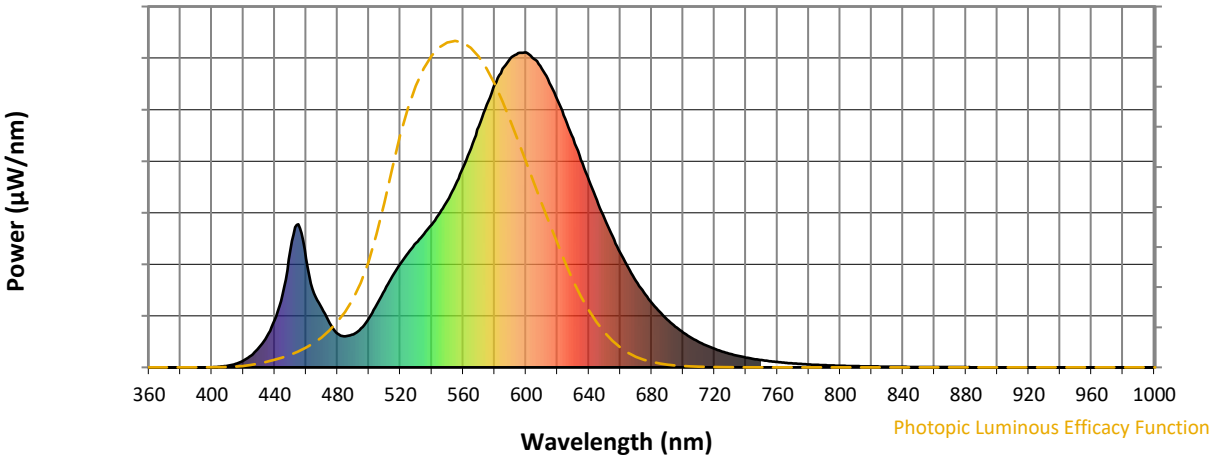
CCT = 2707K
CIE x = 0.4580
CIE y = 0.4082
Duv = -0.0007

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



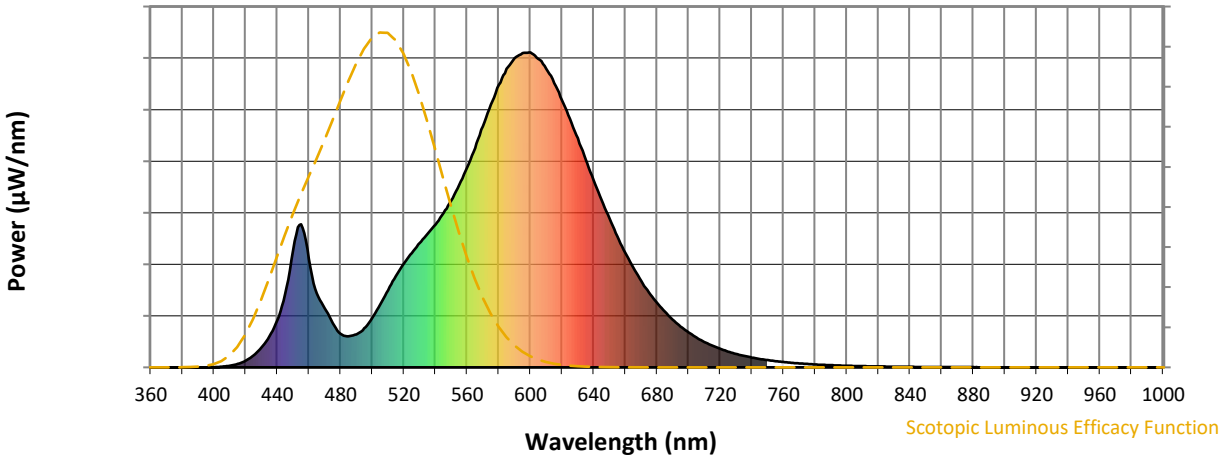
Photopic Lumens: NR

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



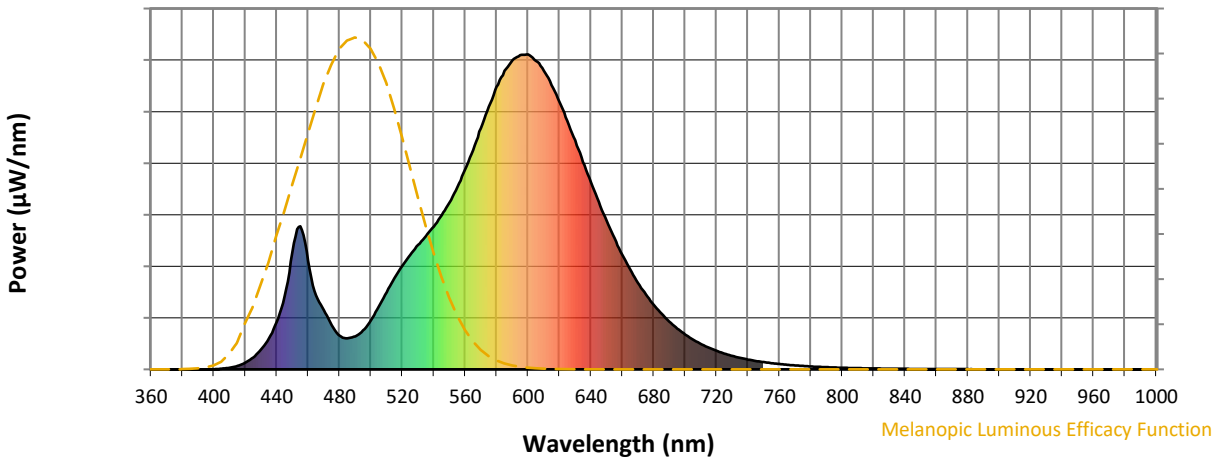
Scotopic Lumens: NR **S/P: 1.12**

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

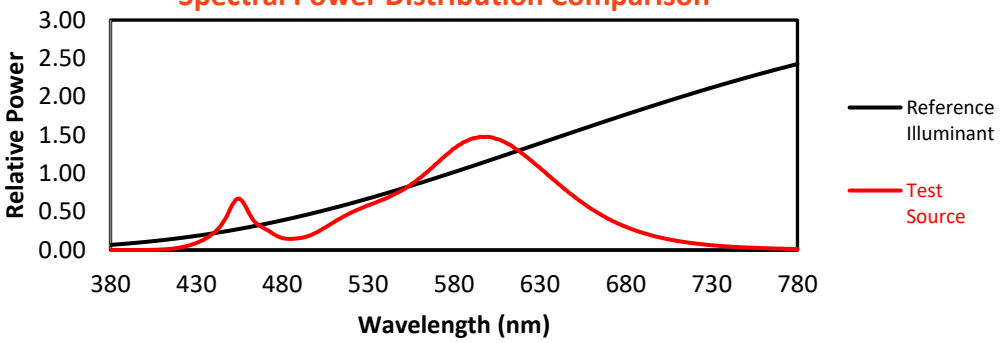
REPORT NUMBER: SP1-2406-133-3

TM-30-18

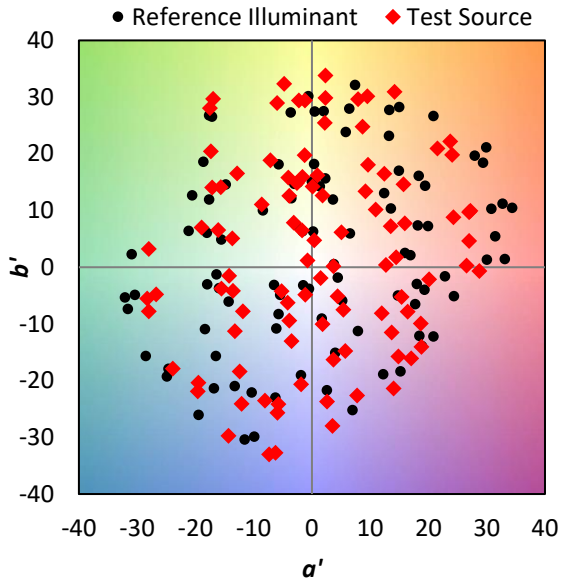
Summary

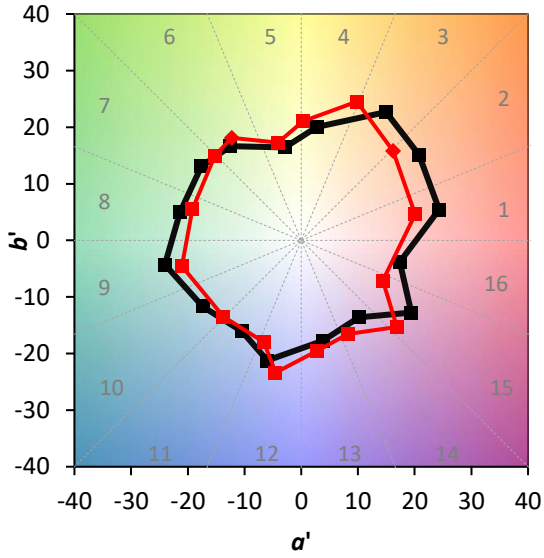
R_f = 75.5
R_g = 92.5
CIE R_a = 71.3
R_9 = -34.9

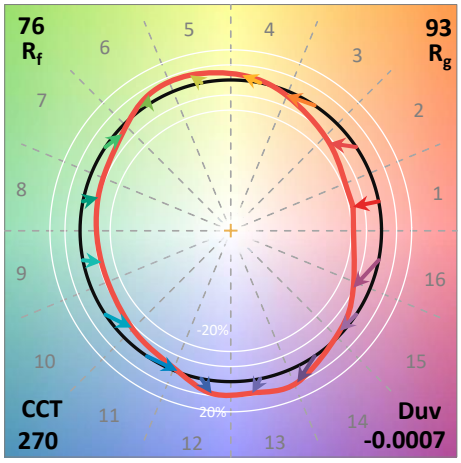
Spectral Power Distribution Comparison

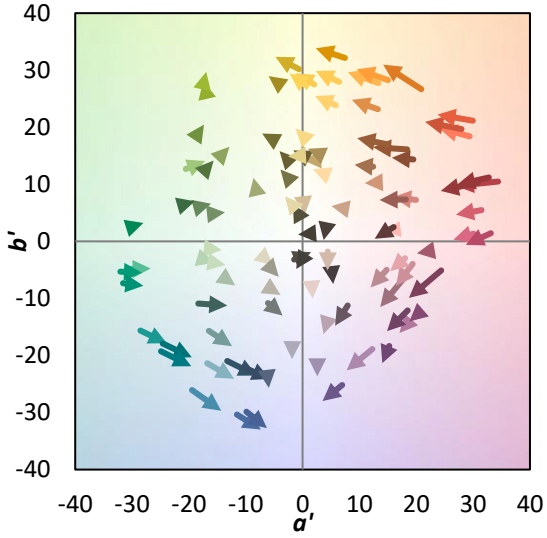


Color Vector Graphics









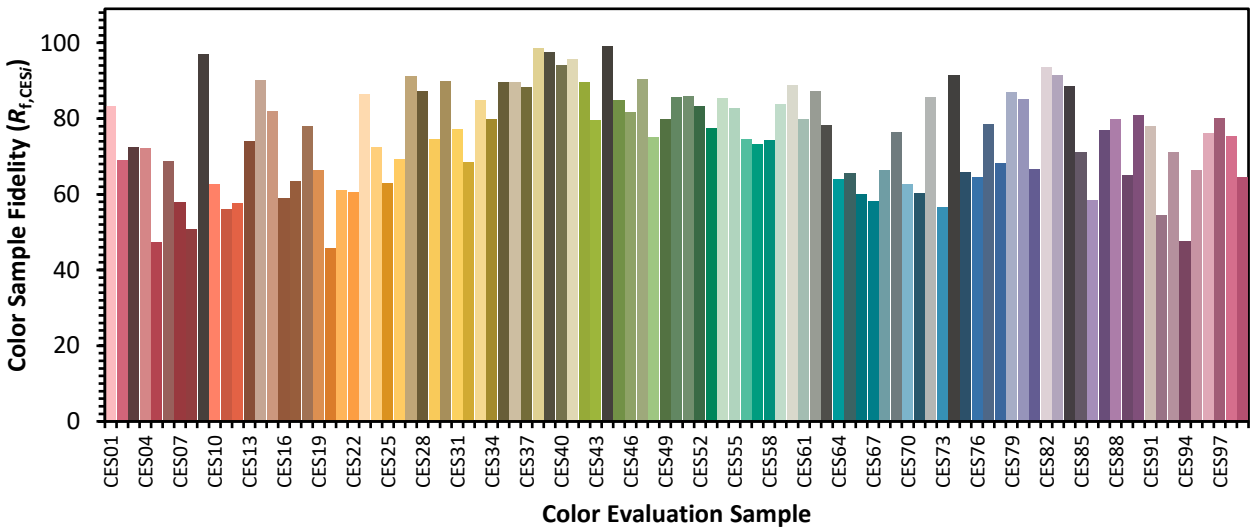
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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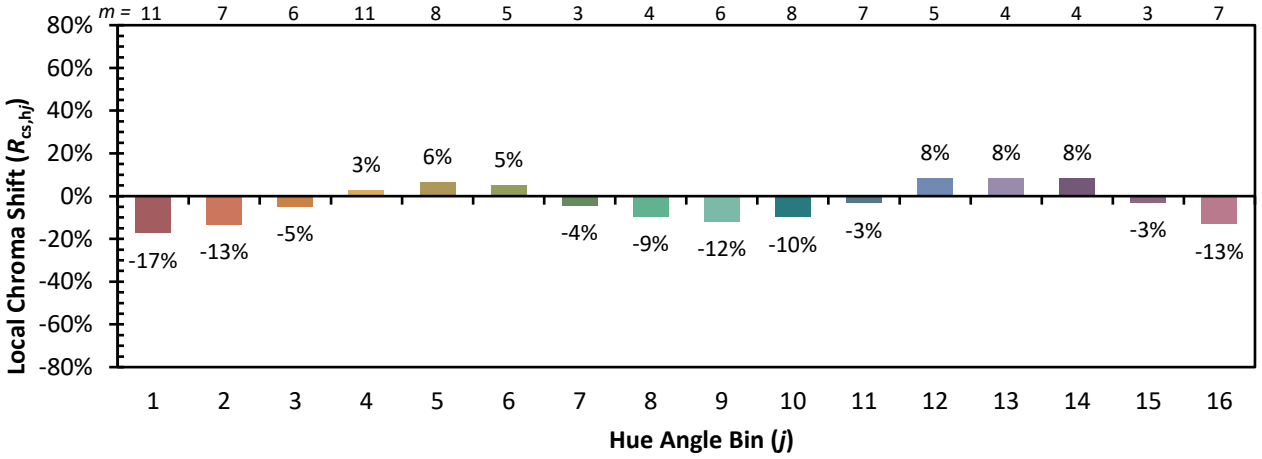
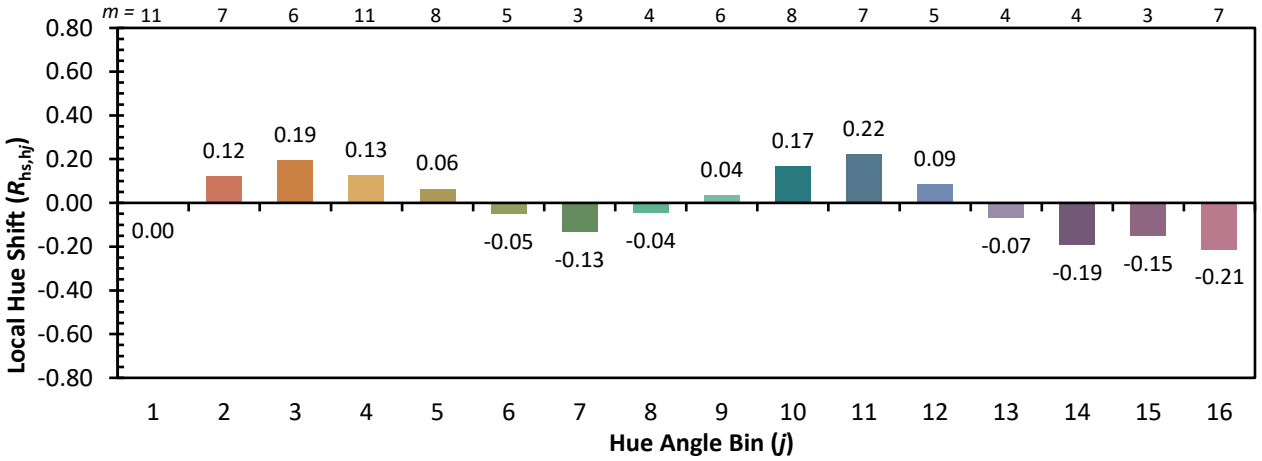
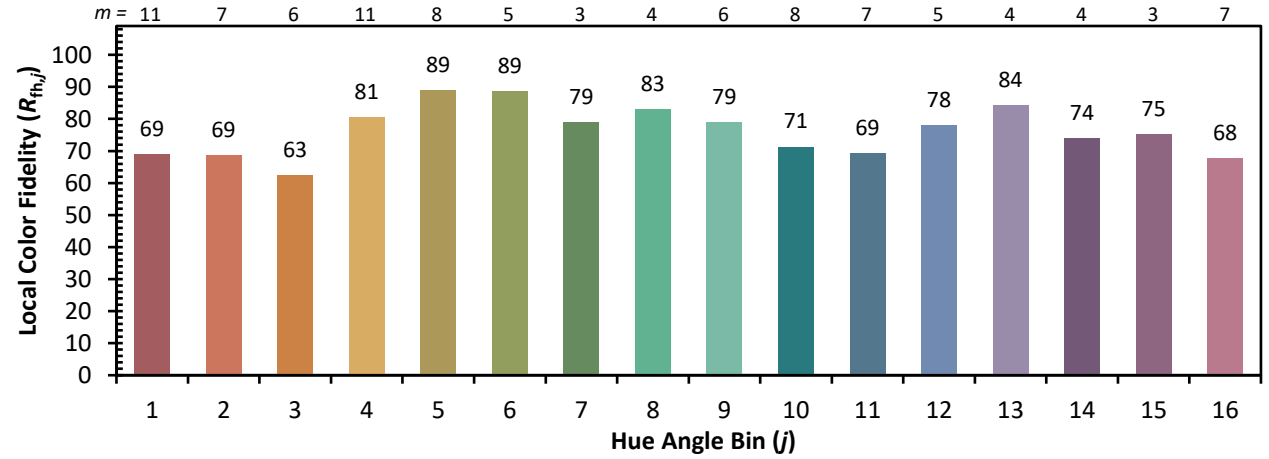
Color Rendition by Hue-Angle Bin







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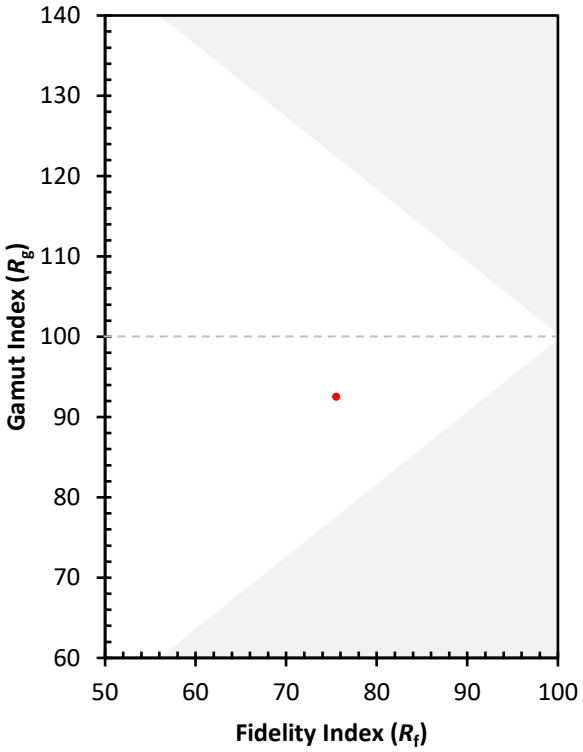
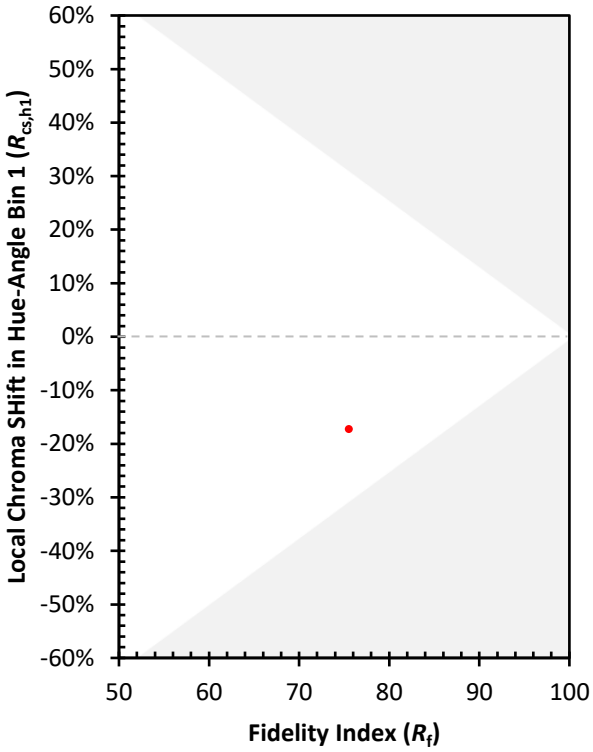
Measure Comparisons





(END OF REPORT)