

Signify Classified - Internal
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: P856114

Luminaire Tested: **FFX-CLB-60-727-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856114
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
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

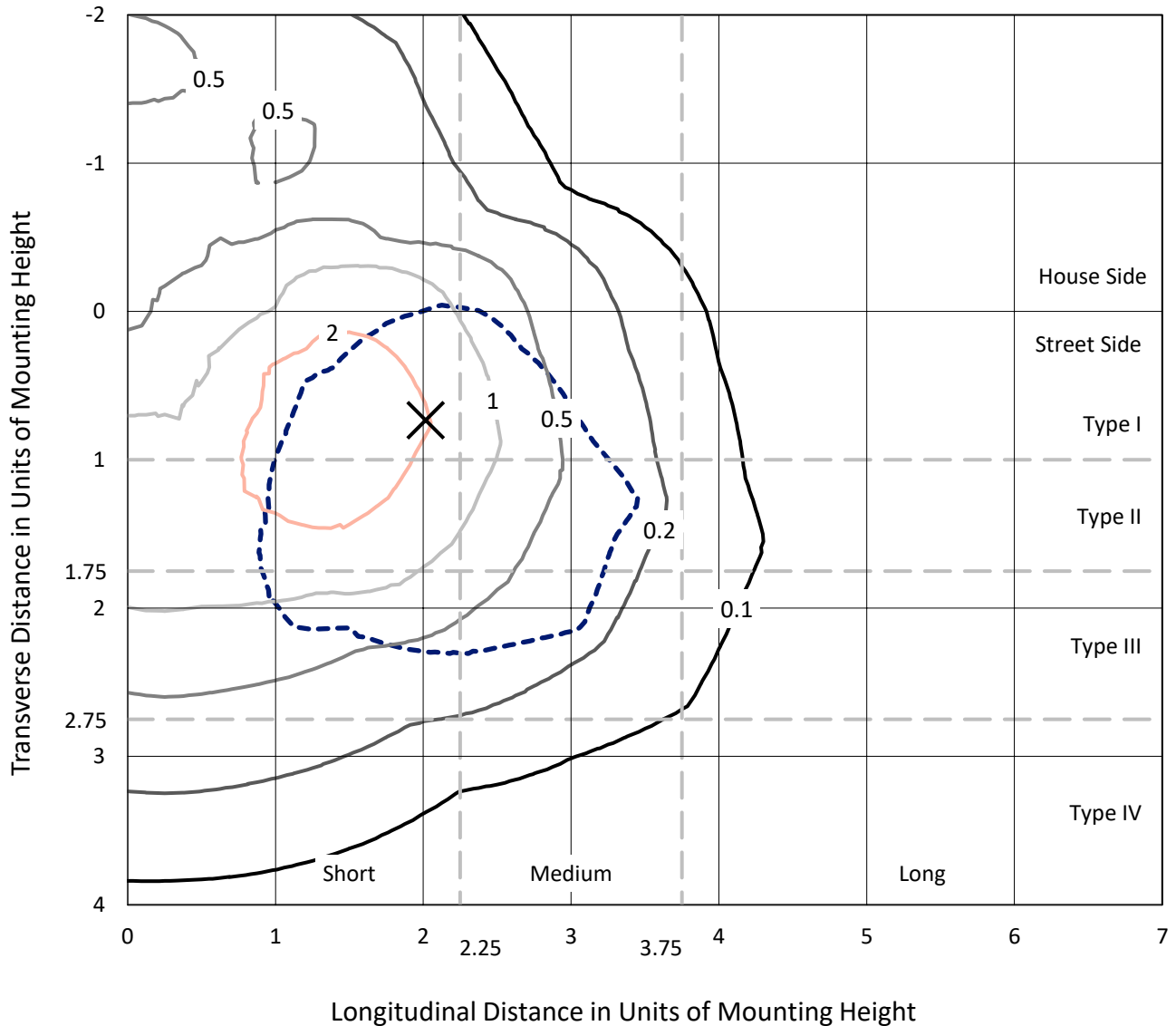
Lumens per Lamp: N/A
Luminaire Lumens: 8624.6 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U5 - G3

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

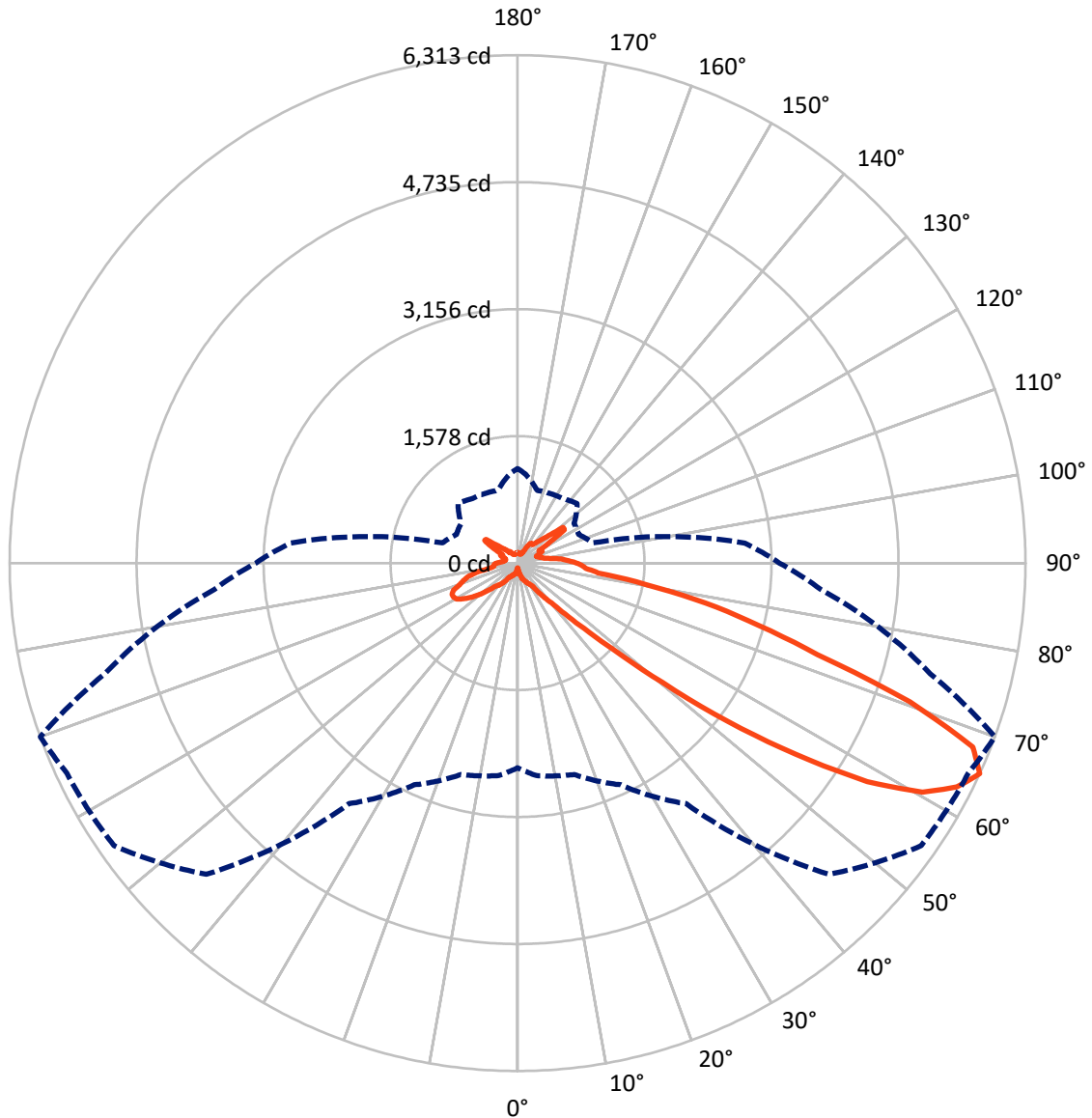
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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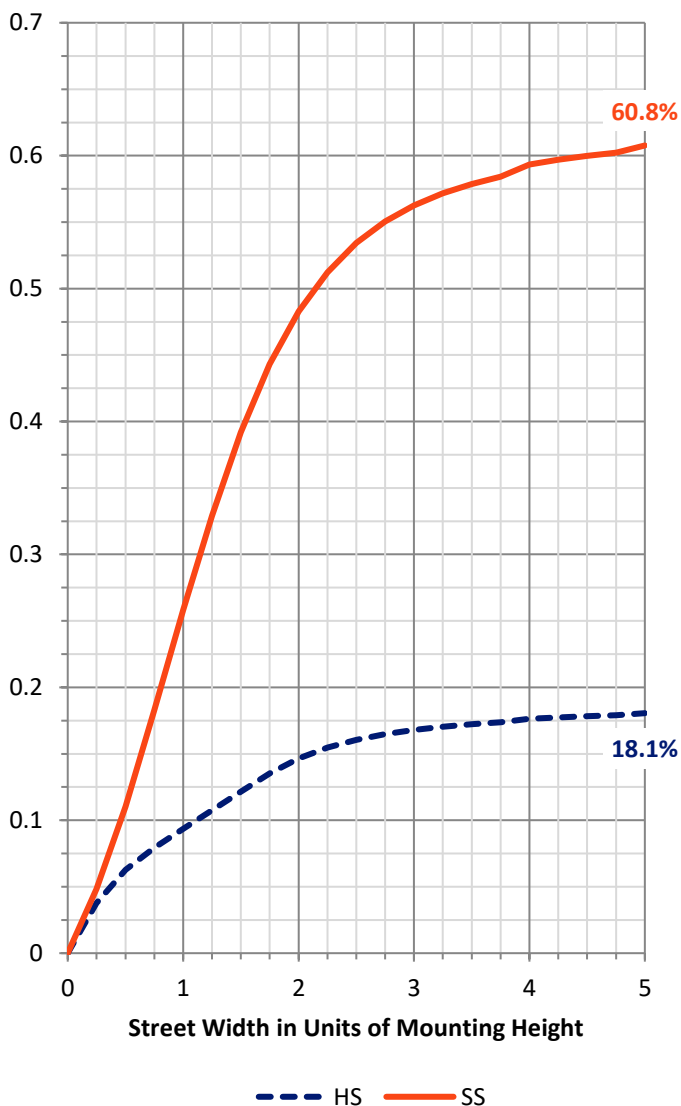
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1624.6	579.6	2204.2
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	5417.5	1002.9	6420.4
	% Fixture	62.8	11.6	74.4
Total	Lumens	7042.1	1582.5	8624.6
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.1
10°-20°	45.2	0.5
20°-30°	95.9	1.1
30°-40°	195.3	2.3
40°-50°	496.6	5.8
50°-60°	1596.1	18.5
60°-70°	2604.8	30.2
70°-80°	1482.9	17.2
80°-90°	516.0	6.0
90°-100°	321.1	3.7
100°-110°	204.5	2.4
110°-120°	225.0	2.6
120°-130°	380.5	4.4
130°-140°	224.3	2.6
140°-150°	120.7	1.4
150°-160°	61.0	0.7
160°-170°	33.4	0.4
170°-180°	12.0	0.1
0°-90°	7042.1	81.7
0°-180°	8624.6	100.0



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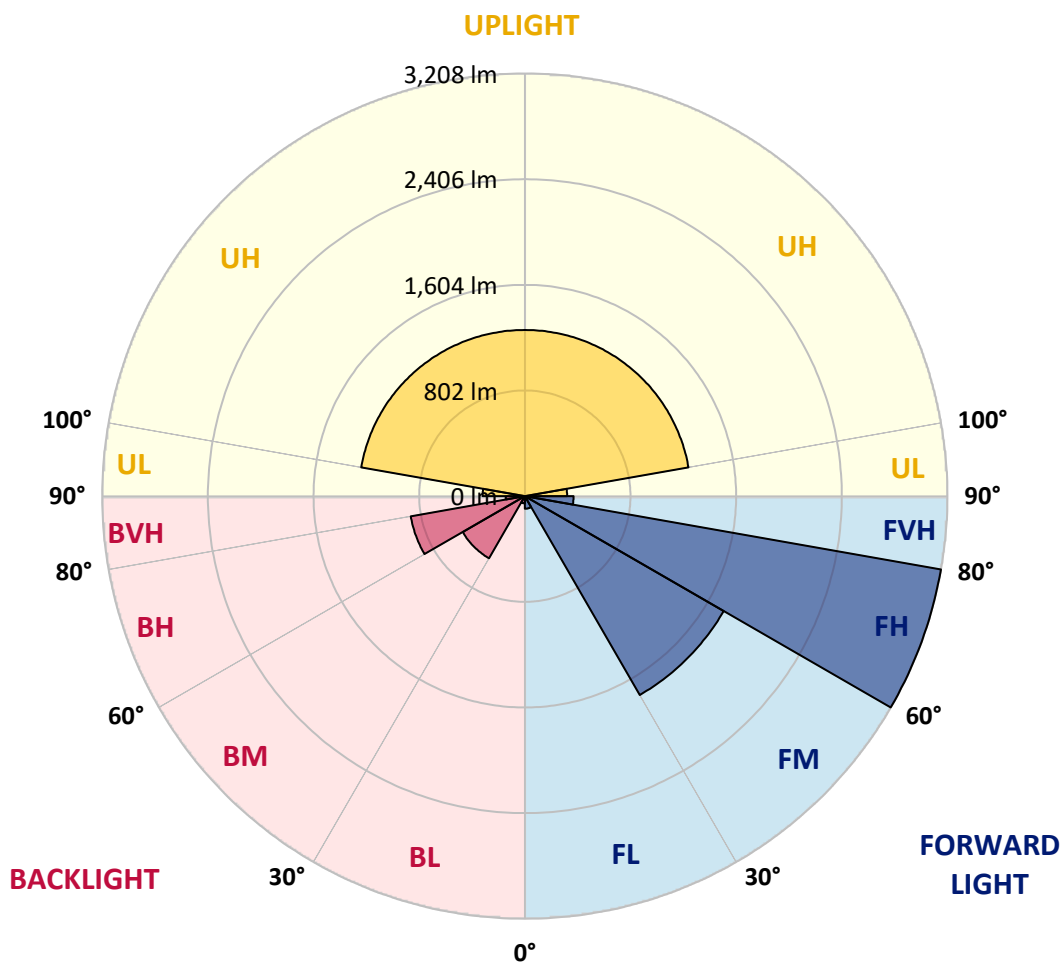
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	95.7	1.1			
FM (30°-60°)	1743.6	20.2			
FH (60°-80°)	3208.2	37.2			G2/5000
FVH (80°-90°)	370.0	4.3			G3/500
BL (0°-30°)	54.6	0.6	B0/110		
BM (30°-60°)	544.5	6.3	B1/1000		
BH (60°-80°)	879.5	10.2	B2/1000		G2/1000
BVH (80°-90°)	146.0	1.7			G2/225
UL (90°-100°)	321.1	3.7		U3/500	
UH (100°-180°)	1261.4	14.6		U5	

BUG Rating: B2-U5-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
2.5°	68.4	68.4	70.2	70.2	70.2	68.4	67.5	65.8	65.8	65.8	64.9
5°	88.9	88.0	88.9	91.5	92.4	89.8	88.0	85.3	85.3	84.4	84.4
7.5°	120.0	119.1	117.3	114.6	115.5	118.2	121.8	114.6	112.9	108.4	106.7
10°	150.2	148.4	150.2	145.8	141.3	135.1	138.6	136.9	133.3	128.9	125.3
12.5°	183.1	184.0	187.5	184.0	176.9	167.1	165.3	160.9	157.3	156.4	151.1
15°	216.9	217.7	221.3	220.4	213.3	200.0	194.6	190.2	188.4	183.1	171.5
17.5°	234.6	235.5	236.4	237.3	232.9	222.2	214.2	206.2	203.5	201.7	187.5
20°	243.5	241.7	243.5	247.1	250.6	241.7	233.7	229.3	226.6	220.4	201.7
22.5°	257.7	256.0	255.1	257.7	268.4	262.2	254.2	249.7	247.1	239.1	210.6
25°	272.8	271.1	273.7	272.0	285.3	282.6	274.6	270.2	266.6	256.9	224.0
27.5°	289.7	288.0	290.6	288.8	299.5	301.3	296.0	292.4	287.1	272.8	233.7
30°	304.0	302.2	304.8	304.0	314.6	320.8	318.2	317.3	309.3	292.4	250.6
32.5°	315.5	314.6	320.8	323.5	326.2	340.4	338.6	346.6	337.7	317.3	275.5
35°	342.2	344.8	361.7	379.5	382.2	410.6	414.2	443.5	434.6	407.9	357.3
37.5°	528.8	519.0	502.1	485.3	479.0	534.1	542.1	571.5	549.3	499.5	417.7
40°	563.5	547.5	527.9	514.6	516.4	615.0	598.1	709.2	646.1	571.5	510.1
42.5°	535.0	529.7	598.1	630.1	607.0	751.0	722.6	934.1	862.1	679.0	615.9
45°	671.0	660.3	684.3	716.3	723.4	988.3	968.7	1190.0	1160.7	848.8	790.1
47.5°	767.9	758.1	790.1	898.5	991.9	1278.0	1384.7	1703.7	1600.7	1206.0	1070.1
50°	1058.5	1056.7	1155.4	1284.3	1447.8	1859.3	2142.8	2501.0	2334.8	1707.3	1467.3
52.5°	1345.6	1349.1	1470.0	1698.4	1868.2	2595.2	2997.8	3248.4	3270.6	2226.3	1901.9
55°	1562.4	1584.7	1730.4	2113.5	2370.3	3250.2	3772.8	3967.4	4189.6	3008.4	2354.3
57.5°	1985.5	2019.3	2157.9	2533.0	2892.0	4066.1	4771.7	4793.1	5124.6	3875.9	2839.6
60°	2355.2	2434.3	2483.2	2823.6	3313.3	4845.5	5513.9	5471.2	5782.3	4594.9	3332.0
62.5°	2469.9	2560.5	2606.7	2969.3	3646.6	5282.8	5860.5	5913.8	6128.0	5099.7	3633.2
65°	2544.5	2651.2	2720.5	3041.3	3650.1	5469.4	6123.5	6180.4	6312.8	5311.2	3783.4
67.5°	2506.3	2642.3	2731.2	3016.4	3458.2	5325.4	6071.1	5961.8	6102.2	5134.4	3615.5
70°	2188.1	2330.3	2420.1	2632.5	2891.1	4477.6	5233.9	5050.8	5174.3	4285.6	2972.9
72.5°	1782.8	1853.1	1908.2	2024.6	2179.2	3302.6	3977.2	3825.2	3899.0	3224.4	2228.1
75°	1464.7	1486.0	1554.4	1621.1	1646.9	2415.6	3150.6	3012.0	3098.2	2454.7	1773.1
77.5°	1063.8	1076.3	1174.0	1184.7	1178.5	1657.5	2483.2	2361.4	2389.0	1824.6	1323.4
80°	617.7	641.7	769.7	763.4	752.8	1021.2	1748.2	1699.3	1614.0	1238.9	916.3
82.5°	435.5	459.5	518.1	531.5	524.4	733.2	1134.9	1102.9	1010.5	862.1	633.7
85°	458.6	461.3	463.9	470.2	458.6	654.1	869.2	853.2	854.1	712.8	522.6
87.5°	452.4	463.0	467.5	470.2	458.6	621.2	807.9	787.4	797.2	677.2	507.5
90°	397.3	416.8	418.6	423.0	416.8	554.6	725.2	705.7	718.1	610.6	462.2
92.5°	324.4	335.1	347.5	364.4	357.3	474.6	616.8	602.6	617.7	528.8	406.2
95°	307.5	319.1	327.1	338.6	328.0	432.8	557.3	528.8	541.3	463.0	350.2
97.5°	254.2	264.0	271.1	275.5	267.5	341.3	427.5	407.9	407.1	358.2	280.0
100°	216.9	223.1	229.3	233.7	226.6	282.6	338.6	331.5	333.3	296.0	240.9
102.5°	206.2	209.7	219.5	220.4	212.4	257.7	304.8	302.2	305.7	273.7	225.7
105°	201.7	204.4	212.4	209.7	202.6	240.9	280.8	282.6	282.6	255.1	211.5
107.5°	188.4	192.9	201.7	197.3	193.7	222.2	258.6	252.4	254.2	237.3	200.9
110°	186.6	190.2	199.1	195.5	192.9	216.9	248.9	247.1	249.7	234.6	206.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	232.0	228.4	235.5	228.4	232.9	253.3	287.1	283.5	291.5	286.2	257.7
115°	286.2	288.0	295.1	280.8	285.3	305.7	324.4	330.6	337.7	329.7	300.4
117.5°	264.8	280.0	271.1	269.3	265.7	281.7	279.1	295.1	302.2	296.0	284.4
120°	283.5	302.2	276.4	263.1	257.7	297.7	317.3	316.4	311.1	298.6	274.6
122.5°	423.9	426.6	428.4	468.4	454.2	493.3	504.8	489.7	489.7	505.7	456.8
125°	661.2	663.9	662.1	679.9	670.1	707.5	722.6	721.7	712.8	704.8	656.8
127.5°	668.3	668.3	662.1	652.3	661.2	697.7	698.6	732.3	720.8	699.5	655.0
130°	466.6	470.2	492.4	499.5	511.9	519.9	511.0	540.4	545.7	542.1	511.9
132.5°	386.6	392.8	416.8	425.7	433.7	434.6	431.0	454.2	459.5	459.5	446.2
135°	334.2	341.3	343.9	339.5	351.1	359.9	367.1	385.7	383.9	380.4	368.8
137.5°	291.5	294.2	286.2	276.4	282.6	308.4	322.6	342.2	341.3	335.1	315.5
140°	246.2	247.1	242.6	238.2	244.4	266.6	280.0	301.3	298.6	294.2	271.1
142.5°	186.6	189.3	200.9	209.7	224.9	271.1	264.0	282.6	296.0	306.6	253.3
145°	196.4	192.9	191.1	200.9	220.4	287.1	266.6	290.6	296.8	304.0	242.6
147.5°	226.6	228.4	225.7	219.5	246.2	267.5	256.0	277.3	280.8	279.1	254.2
150°	177.8	180.4	181.3	178.6	211.5	210.6	199.1	215.1	216.9	216.9	200.0
152.5°	144.9	145.8	144.0	142.2	163.5	160.0	154.6	160.0	159.1	158.2	154.6
155°	137.8	137.8	136.0	136.9	151.1	147.5	144.0	147.5	145.8	143.1	139.5
157.5°	127.1	128.0	128.0	130.6	139.5	133.3	129.8	131.5	129.8	128.0	128.0
160°	120.0	120.0	120.9	124.4	129.8	123.5	120.9	121.8	120.9	119.1	120.0
162.5°	117.3	117.3	118.2	120.0	120.9	117.3	114.6	114.6	114.6	114.6	117.3
165°	115.5	115.5	115.5	116.4	116.4	113.8	112.9	113.8	114.6	115.5	119.1
167.5°	119.1	119.1	119.1	119.1	118.2	116.4	115.5	116.4	117.3	118.2	120.9
170°	124.4	123.5	123.5	122.6	121.8	120.0	119.1	118.2	118.2	119.1	120.0
172.5°	128.0	128.0	127.1	127.1	126.2	124.4	122.6	121.8	121.8	121.8	121.8
175°	132.4	132.4	132.4	132.4	131.5	129.8	128.9	127.1	127.1	127.1	127.1
177.5°	137.8	137.8	137.8	137.8	136.0	134.2	132.4	130.6	130.6	130.6	129.8
180°	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
2.5°	64.0	63.1	60.4	59.5	58.7	56.9	55.1	54.2	53.3	53.3	54.2
5°	85.3	84.4	84.4	81.8	79.1	74.7	72.9	72.9	73.8	74.7	76.4
7.5°	107.5	109.3	111.1	106.7	98.7	88.0	81.8	83.5	88.0	91.5	91.5
10°	124.4	124.4	130.6	125.3	112.0	98.7	89.8	88.0	88.9	89.8	90.7
12.5°	148.4	148.4	144.9	130.6	117.3	104.0	96.9	95.1	95.1	91.5	90.7
15°	166.2	160.9	148.4	135.1	123.5	110.2	102.2	99.5	96.9	94.2	93.3
17.5°	176.9	167.1	150.2	137.8	126.2	115.5	107.5	102.2	99.5	100.4	100.4
20°	189.3	178.6	163.5	150.2	136.0	121.8	112.0	104.0	101.3	102.2	101.3
22.5°	199.1	188.4	173.3	158.2	143.1	128.0	116.4	106.7	103.1	104.0	104.0
25°	210.6	201.7	185.8	168.0	149.3	135.1	123.5	112.0	106.7	105.8	105.8
27.5°	222.2	216.0	199.1	177.8	158.2	141.3	129.8	116.4	110.2	107.5	107.5
30°	237.3	230.2	213.3	187.5	166.2	150.2	137.8	123.5	114.6	110.2	109.3
32.5°	261.3	253.3	232.9	205.3	175.1	159.1	145.8	129.8	118.2	112.9	112.0
35°	339.5	327.1	295.1	263.1	214.2	177.8	155.5	135.1	121.8	114.6	113.8
37.5°	388.4	358.2	315.5	294.2	240.9	217.7	187.5	154.6	127.1	118.2	116.4
40°	467.5	425.7	372.4	330.6	234.6	238.2	219.5	192.9	151.1	124.4	121.8
42.5°	534.1	481.7	400.8	346.6	235.5	248.9	234.6	212.4	181.3	147.5	142.2
45°	658.6	591.0	465.7	372.4	241.7	264.8	247.1	224.0	196.4	173.3	170.6
47.5°	889.6	798.1	582.1	415.0	282.6	307.5	275.5	245.3	220.4	193.7	189.3
50°	1217.6	1108.3	716.3	448.8	352.8	405.3	347.5	296.8	268.4	248.9	246.2
52.5°	1595.3	1480.7	815.0	511.0	438.2	526.1	459.5	400.8	363.5	363.5	368.8
55°	2034.4	1919.7	894.1	597.2	543.0	659.5	587.5	539.5	521.7	597.2	617.7
57.5°	2469.9	2324.1	947.4	685.2	665.7	815.9	729.7	688.8	721.7	945.6	1015.0
60°	2867.1	2626.3	989.2	768.8	770.6	940.3	876.3	873.6	924.3	1210.5	1298.5
62.5°	3096.4	2768.5	986.5	816.8	831.9	1017.6	964.3	978.5	1007.0	1254.9	1321.6
65°	3253.7	2836.0	966.1	838.1	857.7	1045.2	978.5	954.5	935.9	1110.9	1174.9
67.5°	3145.3	2677.8	919.9	807.0	841.7	1005.2	917.2	848.8	812.3	901.2	944.7
70°	2634.3	2233.4	814.1	726.1	758.1	847.0	762.6	695.0	656.8	704.8	725.2
72.5°	1995.3	1699.3	734.1	679.0	664.8	700.3	620.4	544.8	521.7	552.8	557.3
75°	1589.1	1329.6	675.5	614.1	558.1	592.8	495.0	403.5	390.2	390.2	383.1
77.5°	1191.8	985.6	575.9	478.2	411.5	468.4	368.8	280.8	263.1	259.5	249.7
80°	799.0	671.0	387.5	317.3	296.0	347.5	262.2	206.2	207.1	206.2	194.6
82.5°	558.1	518.1	314.6	276.4	253.3	273.7	237.3	198.2	196.4	198.2	185.8
85°	495.0	474.6	304.8	285.3	261.3	264.0	227.5	187.5	188.4	192.0	181.3
87.5°	475.5	452.4	305.7	275.5	255.1	244.4	206.2	173.3	178.6	182.2	173.3
90°	428.4	405.3	280.8	248.9	227.5	212.4	182.2	164.4	171.5	175.1	167.1
92.5°	371.5	347.5	233.7	219.5	214.2	214.2	191.1	175.1	179.5	181.3	174.2
95°	320.0	296.8	208.0	192.9	188.4	189.3	170.6	157.3	160.0	159.1	153.8
97.5°	258.6	244.4	181.3	171.5	167.1	165.3	152.9	143.1	148.4	152.0	147.5
100°	228.4	221.3	175.1	168.0	161.8	160.9	150.2	144.0	148.4	153.8	150.2
102.5°	213.3	208.0	167.1	157.3	152.9	151.1	144.0	136.9	141.3	146.6	144.0
105°	200.9	192.9	160.0	151.1	144.9	144.0	136.9	128.0	130.6	137.8	136.0
107.5°	190.2	184.9	159.1	149.3	141.3	141.3	133.3	126.2	127.1	129.8	129.8
110°	199.1	192.9	165.3	158.2	147.5	144.0	142.2	136.9	132.4	130.6	130.6



REPORT NUMBER: P856114
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	246.2	234.6	207.1	199.1	181.3	168.9	157.3	146.6	139.5	136.9	135.1
115°	290.6	277.3	244.4	224.0	200.0	181.3	165.3	153.8	143.1	139.5	143.1
117.5°	299.5	264.0	213.3	196.4	182.2	170.6	161.8	152.9	144.9	147.5	144.9
120°	296.8	253.3	215.1	239.1	215.1	188.4	167.1	167.1	164.4	151.1	153.8
122.5°	456.8	426.6	380.4	366.2	298.6	272.8	232.9	199.1	166.2	147.5	138.6
125°	625.7	596.4	525.3	471.0	403.5	332.4	255.1	196.4	153.8	136.0	138.6
127.5°	629.2	602.6	535.0	443.5	354.6	284.4	212.4	174.2	150.2	138.6	136.9
130°	490.6	464.8	407.1	336.8	280.8	234.6	191.1	157.3	136.0	127.1	124.4
132.5°	424.8	401.7	348.4	284.4	243.5	207.1	170.6	136.9	122.6	116.4	117.3
135°	357.3	329.7	279.1	244.4	218.6	185.8	152.9	125.3	118.2	116.4	115.5
137.5°	303.1	283.5	248.0	221.3	196.4	167.1	134.2	117.3	114.6	116.4	114.6
140°	257.7	241.7	222.2	199.1	168.9	141.3	120.0	112.0	116.4	117.3	116.4
142.5°	222.2	206.2	185.8	154.6	140.4	128.0	122.6	116.4	116.4	115.5	114.6
145°	185.8	164.4	154.6	159.1	150.2	137.8	128.0	115.5	111.1	111.1	112.0
147.5°	213.3	191.1	178.6	168.9	152.0	134.2	119.1	107.5	105.8	109.3	108.4
150°	184.0	163.5	154.6	141.3	130.6	117.3	107.5	103.1	104.0	108.4	108.4
152.5°	146.6	132.4	127.1	123.5	118.2	110.2	104.9	103.1	104.9	106.7	106.7
155°	137.8	129.8	123.5	120.9	114.6	108.4	104.0	103.1	104.9	106.7	108.4
157.5°	128.9	126.2	118.2	115.5	110.2	107.5	104.9	104.9	105.8	107.5	109.3
160°	122.6	121.8	114.6	113.8	110.2	108.4	108.4	109.3	110.2	110.2	110.2
162.5°	119.1	119.1	116.4	114.6	113.8	112.9	115.5	116.4	115.5	115.5	115.5
165°	120.0	120.9	118.2	116.4	115.5	117.3	121.8	121.8	120.0	119.1	118.2
167.5°	120.9	121.8	120.0	119.1	119.1	120.9	122.6	121.8	120.9	120.0	119.1
170°	120.0	120.9	120.9	121.8	121.8	121.8	123.5	123.5	121.8	120.9	120.9
172.5°	121.8	122.6	123.5	124.4	125.3	124.4	125.3	125.3	125.3	125.3	126.2
175°	127.1	127.1	128.0	128.0	127.1	128.0	128.0	128.0	128.9	130.6	130.6
177.5°	129.8	129.8	128.9	128.9	128.0	128.9	128.9	128.9	128.9	129.8	128.9
180°	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5

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.

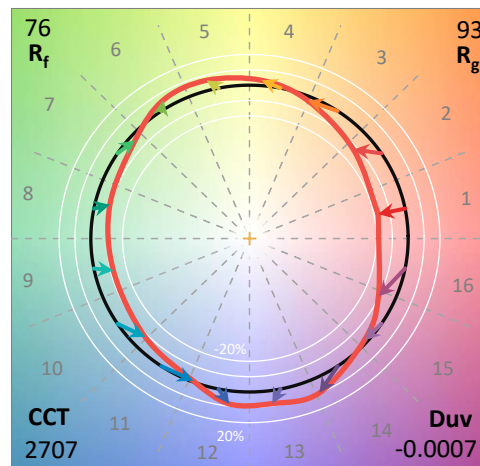
Test Information

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

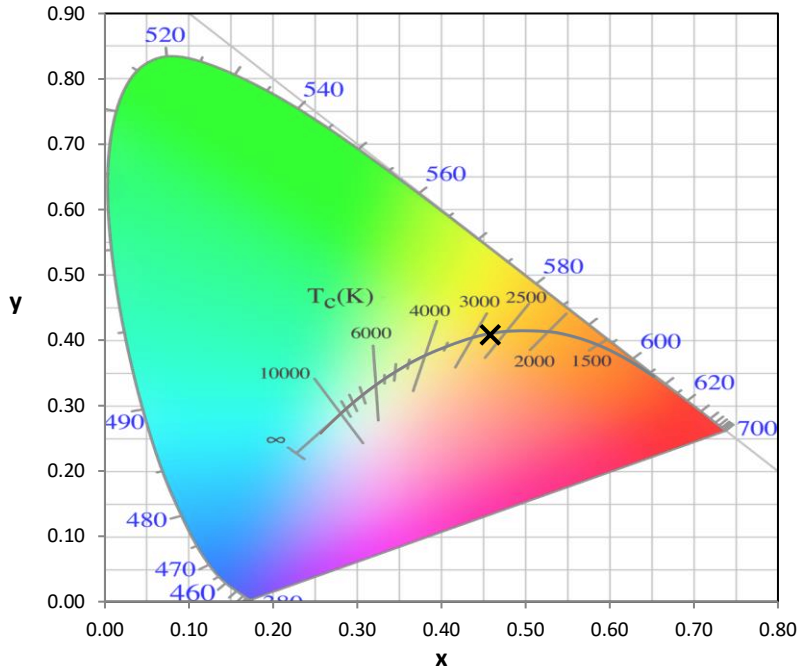
Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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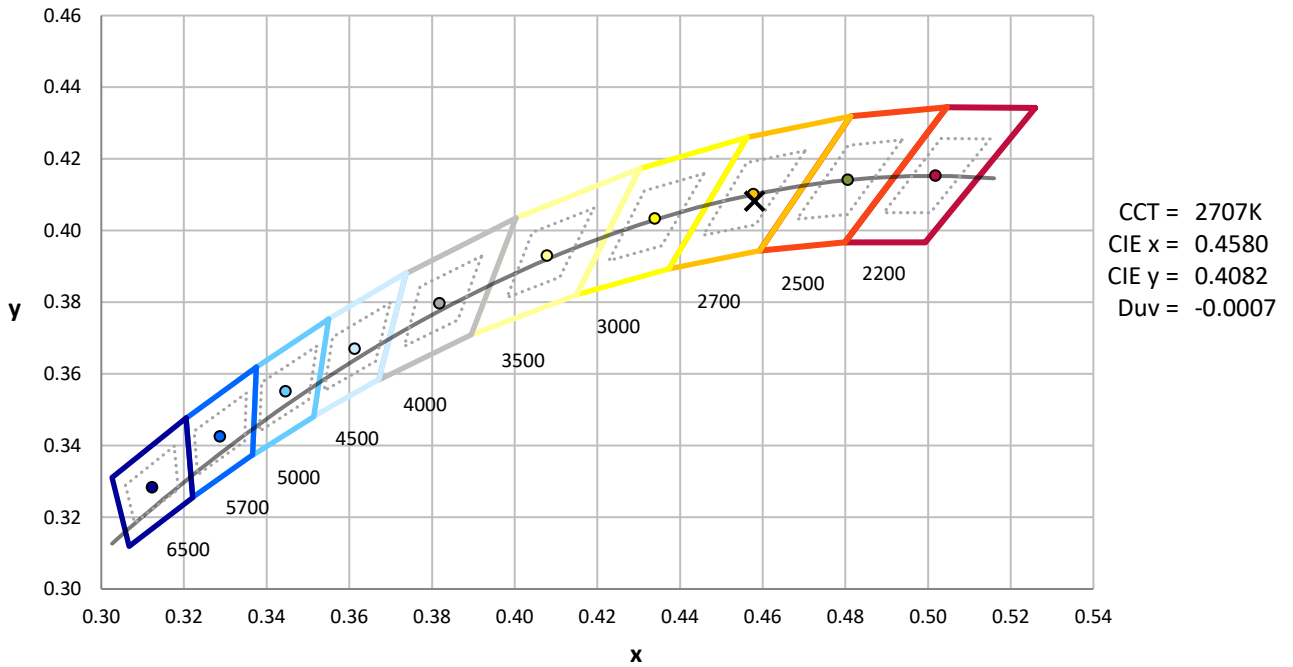
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



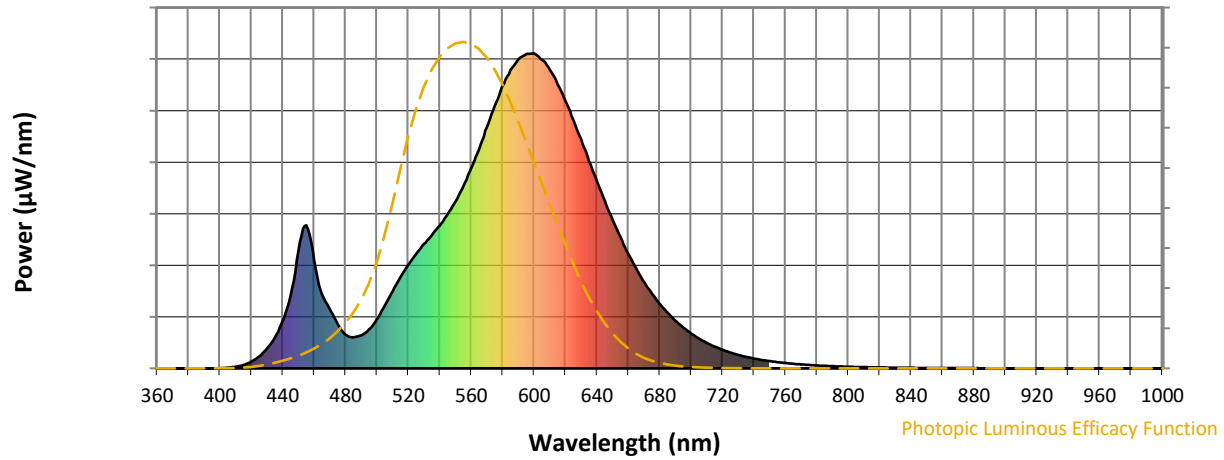
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

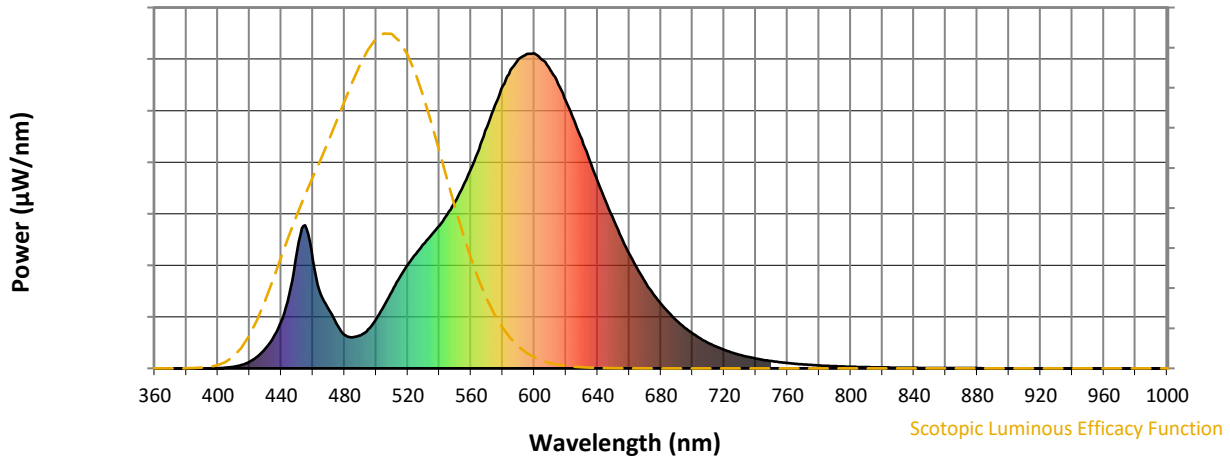


Photopic Lumens: NR

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	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			

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Scotopic Flux vs. Wavelength



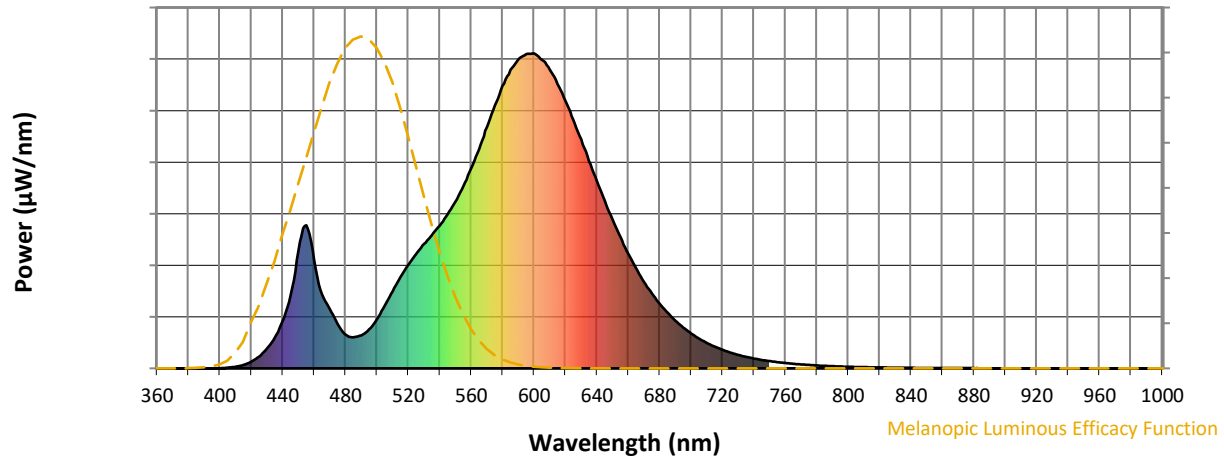
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

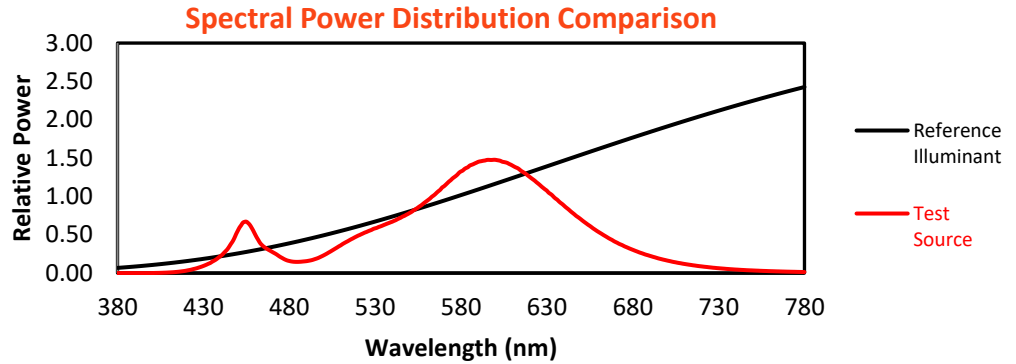
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	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			

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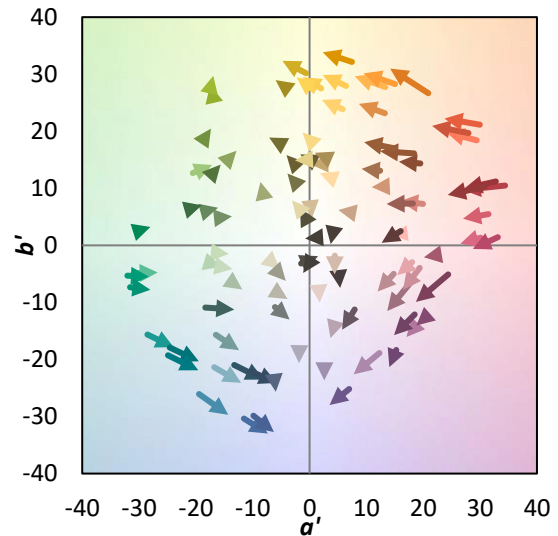
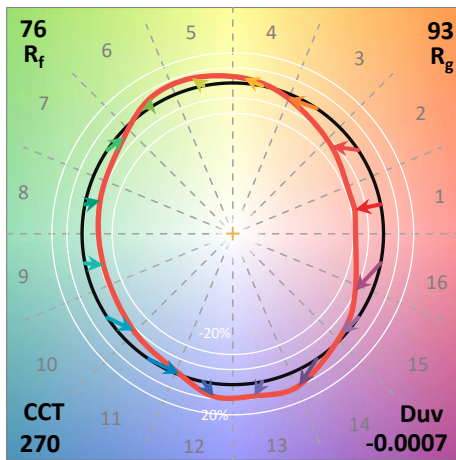
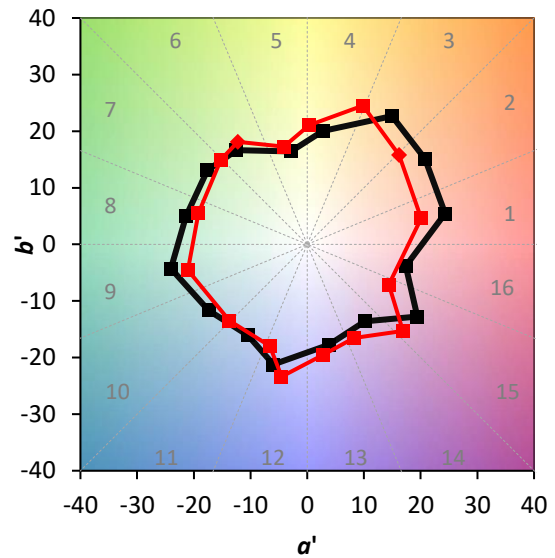
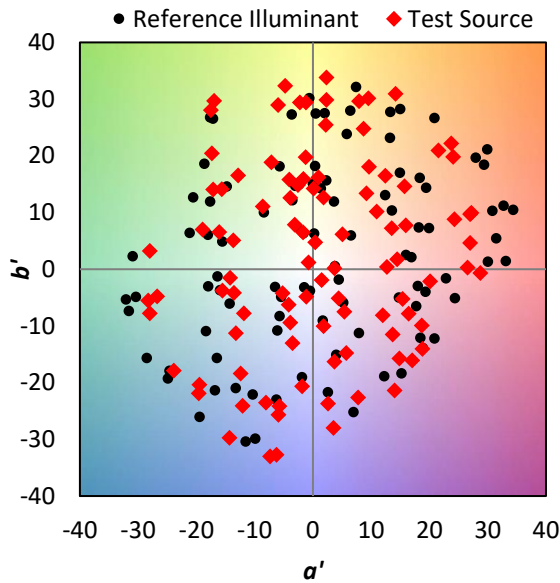
TM-30-18

Summary

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



Color Vector Graphics

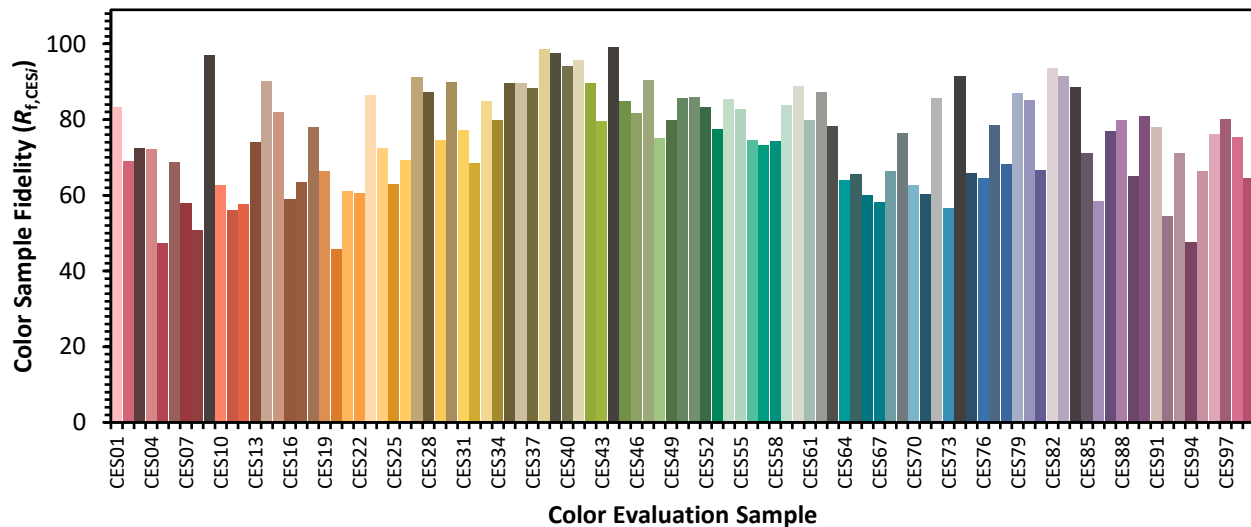


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Individual Sample Fidelity Index ($R_{f,i}$)

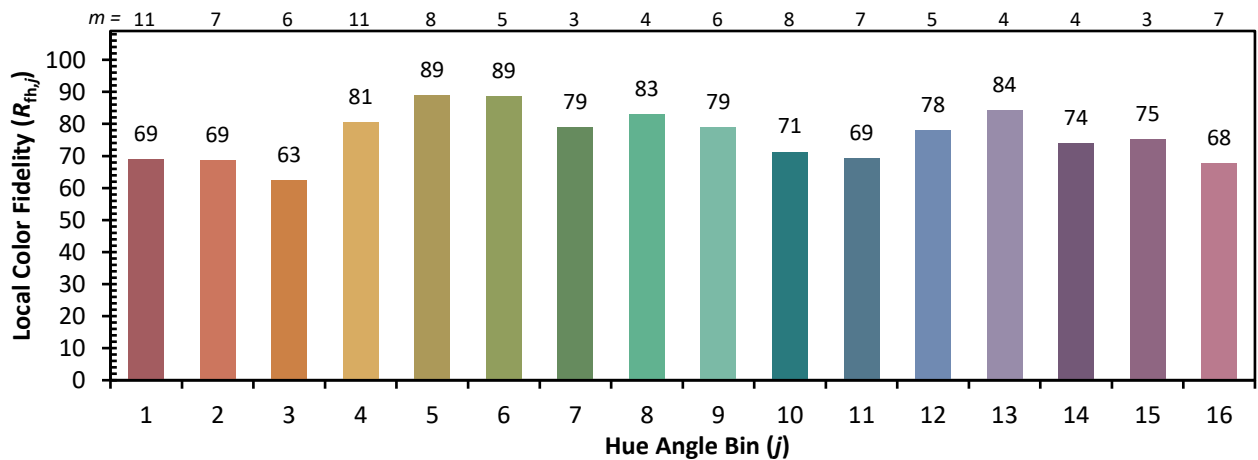
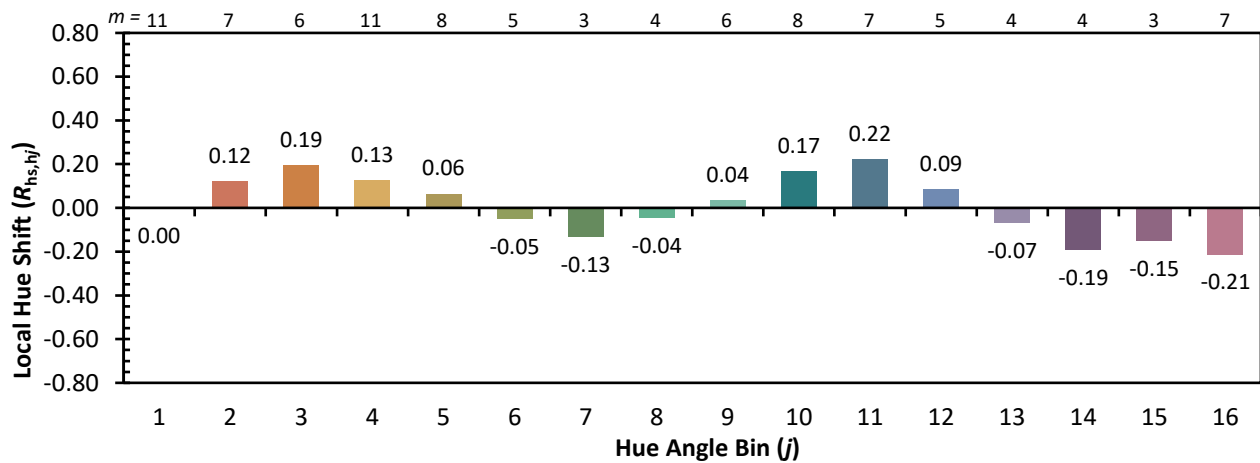
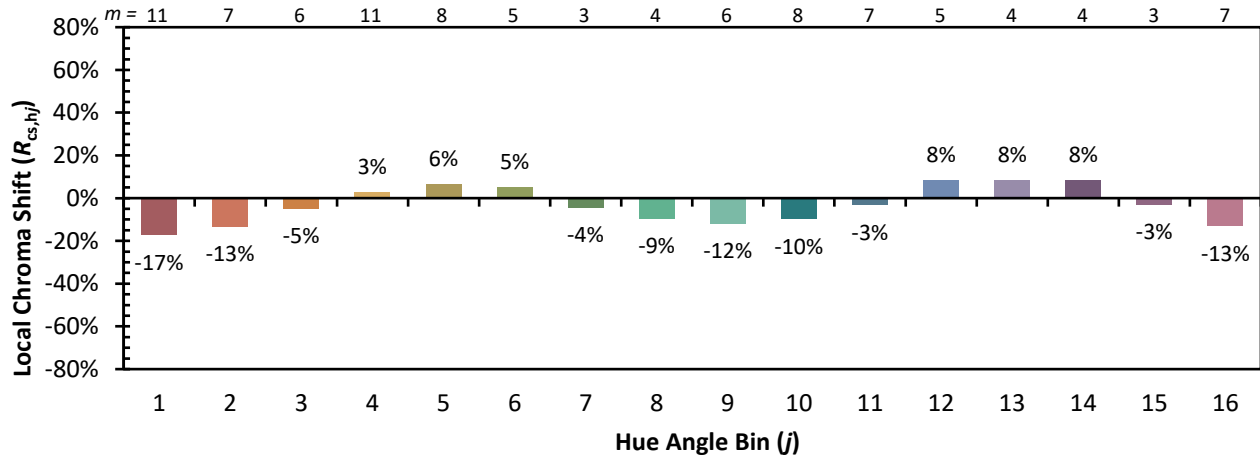
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CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 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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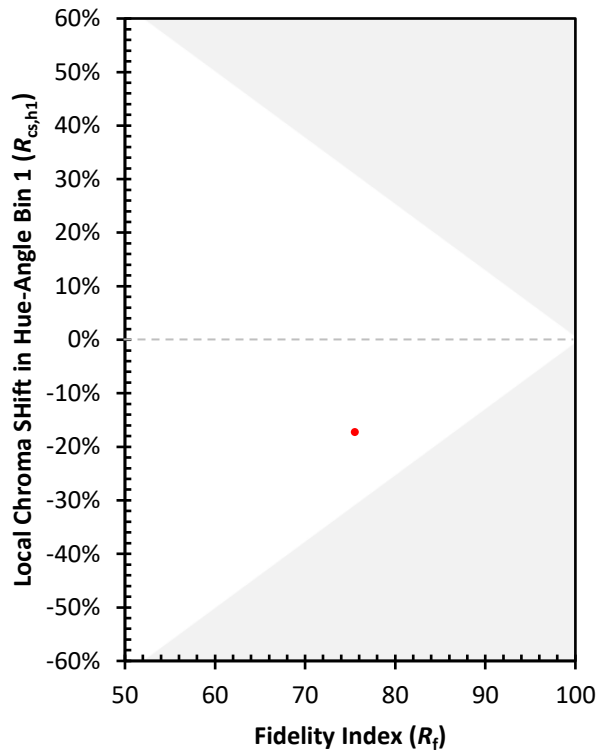
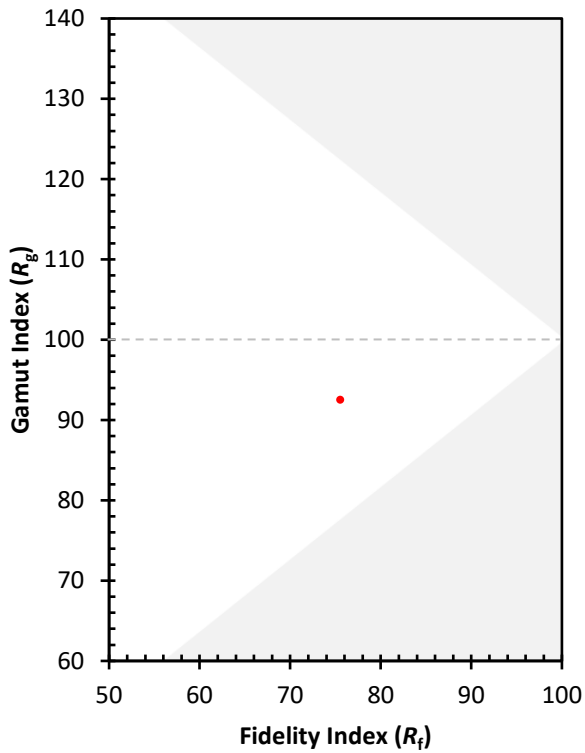
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)