

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: P856107

Luminaire Tested: **FFX-CLB-40-722-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856107
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-40-722-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

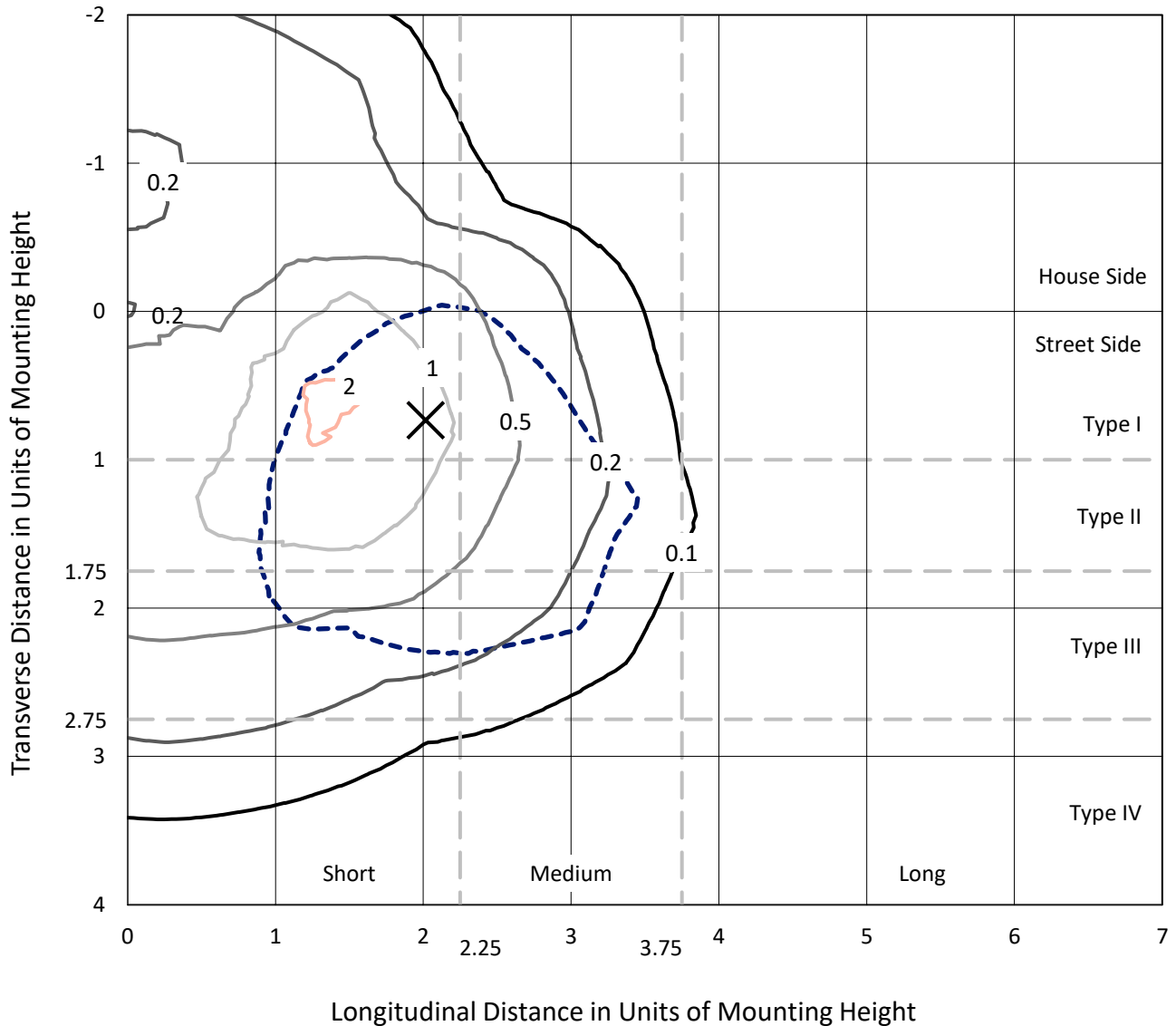
Lumens per Lamp: N/A
Luminaire Lumens: 5329.9 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U4 - G3

Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (A_{in}): 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

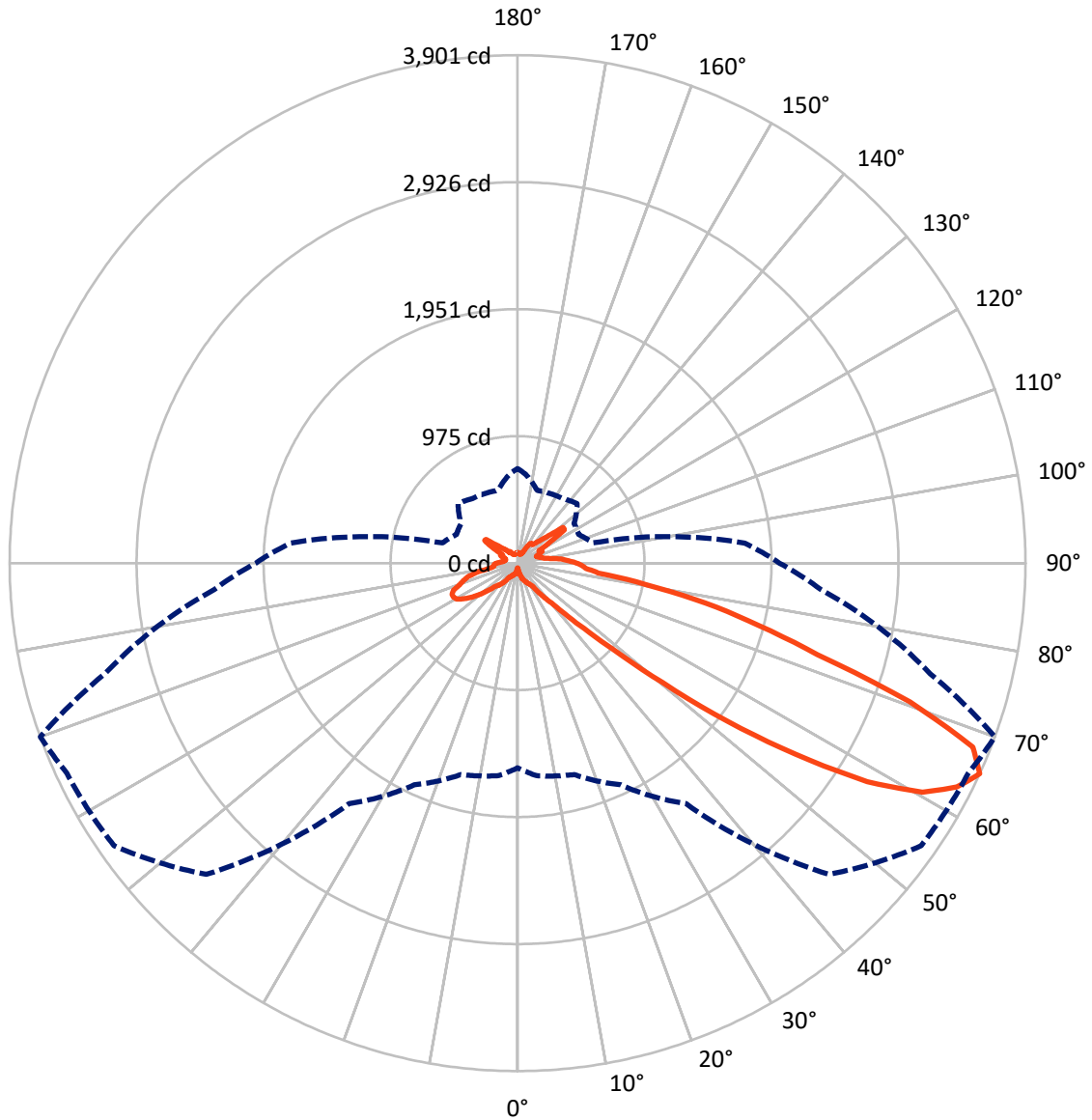
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 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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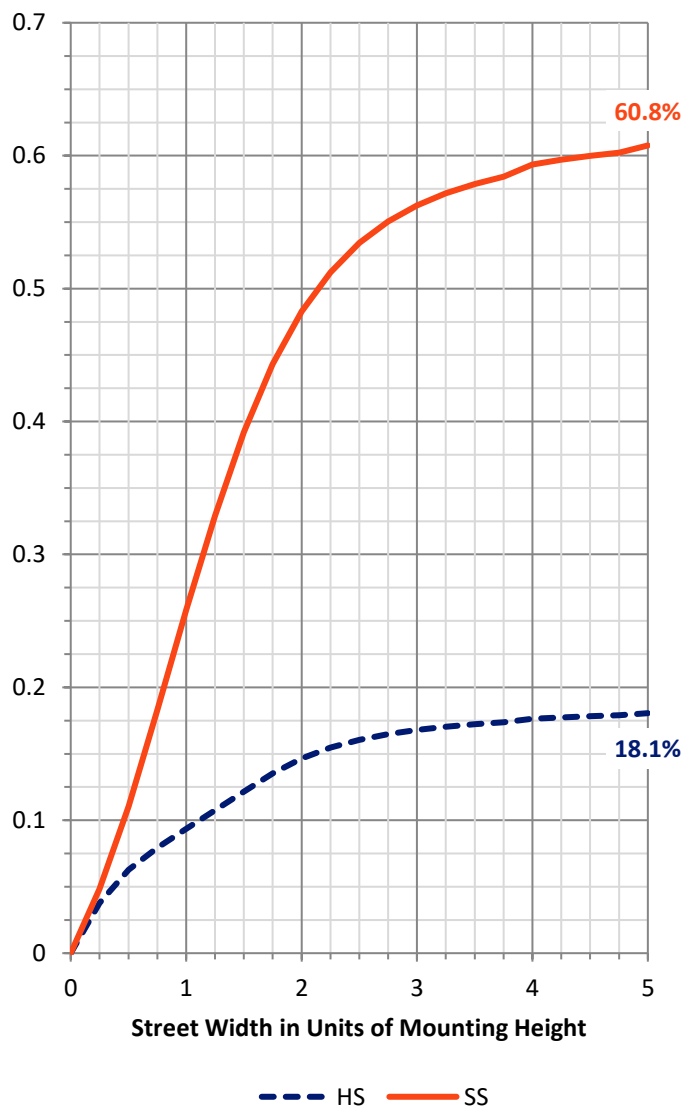
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1004.0	358.2	1362.2
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	3347.9	619.8	3967.7
	% Fixture	62.8	11.6	74.4
Total	Lumens	4351.9	978.0	5329.9
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	27.9	0.5
20°-30°	59.3	1.1
30°-40°	120.7	2.3
40°-50°	306.9	5.8
50°-60°	986.4	18.5
60°-70°	1609.7	30.2
70°-80°	916.4	17.2
80°-90°	318.9	6.0
90°-100°	198.4	3.7
100°-110°	126.4	2.4
110°-120°	139.0	2.6
120°-130°	235.1	4.4
130°-140°	138.6	2.6
140°-150°	74.6	1.4
150°-160°	37.7	0.7
160°-170°	20.6	0.4
170°-180°	7.4	0.1
0°-90°	4351.9	81.7
0°-180°	5329.9	100.0

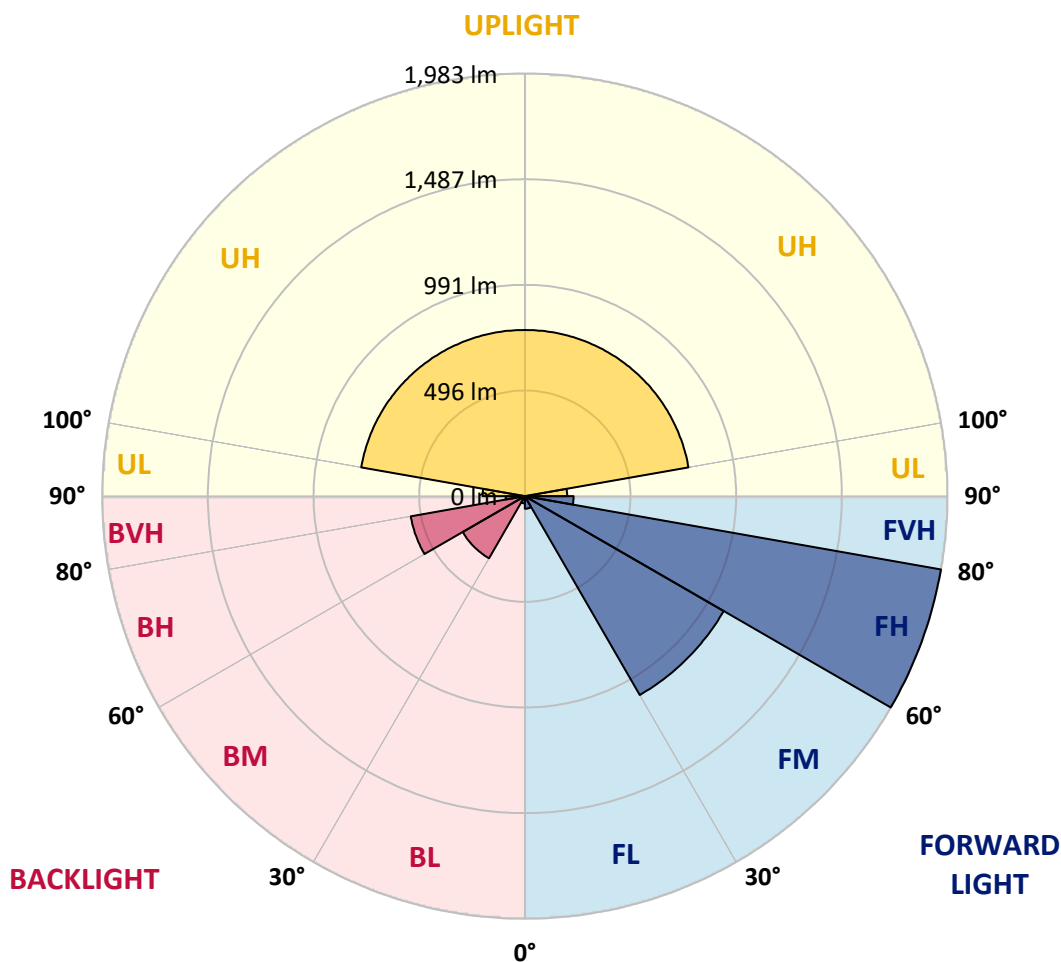


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	59.2	1.1			
FM (30°-60°)	1077.5	20.2			
FH (60°-80°)	1982.6	37.2			G2/5000
FVH (80°-90°)	228.6	4.3			G3/500
BL (0°-30°)	33.7	0.6	B0/110		
BM (30°-60°)	336.5	6.3	B1/1000		
BH (60°-80°)	543.5	10.2	B2/1000		G2/1000
BVH (80°-90°)	90.2	1.7			G1/100
UL (90°-100°)	198.4	3.7		U3/500	
UH (100°-180°)	779.5	14.6		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°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
2.5°	42.3	42.3	43.4	43.4	43.4	42.3	41.7	40.6	40.6	40.6	40.1
5°	54.9	54.4	54.9	56.6	57.1	55.5	54.4	52.7	52.7	52.2	52.2
7.5°	74.1	73.6	72.5	70.9	71.4	73.0	75.2	70.9	69.8	67.0	65.9
10°	92.8	91.7	92.8	90.1	87.3	83.5	85.7	84.6	82.4	79.6	77.4
12.5°	113.1	113.7	115.9	113.7	109.3	103.3	102.2	99.4	97.2	96.7	93.4
15°	134.0	134.6	136.8	136.2	131.8	123.6	120.3	117.5	116.4	113.1	106.0
17.5°	145.0	145.5	146.1	146.6	143.9	137.3	132.4	127.4	125.8	124.7	115.9
20°	150.5	149.4	150.5	152.7	154.9	149.4	144.5	141.7	140.1	136.2	124.7
22.5°	159.3	158.2	157.6	159.3	165.9	162.0	157.1	154.3	152.7	147.7	130.2
25°	168.6	167.5	169.2	168.1	176.3	174.7	169.7	167.0	164.8	158.7	138.4
27.5°	179.1	178.0	179.6	178.5	185.1	186.2	182.9	180.7	177.4	168.6	144.5
30°	187.8	186.7	188.4	187.8	194.4	198.3	196.6	196.1	191.1	180.7	154.9
32.5°	195.0	194.4	198.3	199.9	201.6	210.4	209.3	214.2	208.7	196.1	170.3
35°	211.5	213.1	223.5	234.5	236.2	253.7	255.9	274.1	268.6	252.1	220.8
37.5°	326.8	320.8	310.3	299.9	296.0	330.1	335.0	353.2	339.4	308.7	258.1
40°	348.2	338.3	326.2	318.0	319.1	380.1	369.6	438.3	399.3	353.2	315.3
42.5°	330.6	327.3	369.6	389.4	375.1	464.1	446.5	577.3	532.8	419.6	380.6
45°	414.7	408.1	422.9	442.7	447.1	610.8	598.7	735.4	717.3	524.5	488.3
47.5°	474.5	468.5	488.3	555.3	613.0	789.8	855.7	1052.9	989.2	745.3	661.3
50°	654.1	653.0	714.0	793.7	894.7	1149.0	1324.2	1545.6	1442.9	1055.1	906.8
52.5°	831.6	833.7	908.4	1049.6	1154.5	1603.8	1852.6	2007.5	2021.2	1375.8	1175.4
55°	965.6	979.3	1069.4	1306.1	1464.8	2008.6	2331.5	2451.8	2589.1	1859.2	1454.9
57.5°	1227.0	1247.9	1333.6	1565.3	1787.2	2512.8	2948.9	2962.1	3166.9	2395.2	1754.8
60°	1455.5	1504.4	1534.6	1744.9	2047.6	2994.5	3407.5	3381.1	3573.4	2839.6	2059.1
62.5°	1526.3	1582.4	1610.9	1835.0	2253.5	3264.7	3621.7	3654.6	3787.0	3151.5	2245.3
65°	1572.5	1638.4	1681.2	1879.5	2255.7	3380.0	3784.3	3819.4	3901.3	3282.3	2338.1
67.5°	1548.9	1632.9	1687.8	1864.1	2137.1	3291.1	3751.9	3684.3	3771.1	3173.0	2234.3
70°	1352.2	1440.1	1495.6	1626.9	1786.7	2767.1	3234.5	3121.3	3197.7	2648.4	1837.2
72.5°	1101.8	1145.2	1179.2	1251.2	1346.7	2041.0	2457.9	2363.9	2409.5	1992.6	1376.9
75°	905.1	918.3	960.6	1001.8	1017.7	1492.8	1947.1	1861.4	1914.7	1517.0	1095.7
77.5°	657.4	665.1	725.5	732.1	728.3	1024.3	1534.6	1459.3	1476.4	1127.6	817.8
80°	381.7	396.6	475.6	471.8	465.2	631.1	1080.4	1050.1	997.4	765.6	566.3
82.5°	269.1	284.0	320.2	328.4	324.1	453.1	701.4	681.6	624.5	532.8	391.6
85°	283.4	285.1	286.7	290.5	283.4	404.2	537.2	527.3	527.8	440.5	323.0
87.5°	279.6	286.2	288.9	290.5	283.4	383.9	499.3	486.6	492.7	418.5	313.6
90°	245.5	257.6	258.7	261.4	257.6	342.7	448.2	436.1	443.8	377.3	285.6
92.5°	200.5	207.1	214.8	225.2	220.8	293.3	381.2	372.4	381.7	326.8	251.0
95°	190.0	197.2	202.1	209.3	202.7	267.5	344.4	326.8	334.5	286.2	216.4
97.5°	157.1	163.1	167.5	170.3	165.3	210.9	264.2	252.1	251.6	221.3	173.0
100°	134.0	137.9	141.7	144.5	140.1	174.7	209.3	204.9	206.0	182.9	148.8
102.5°	127.4	129.6	135.7	136.2	131.3	159.3	188.4	186.7	188.9	169.2	139.5
105°	124.7	126.3	131.3	129.6	125.2	148.8	173.6	174.7	174.7	157.6	130.7
107.5°	116.4	119.2	124.7	121.9	119.7	137.3	159.8	156.0	157.1	146.6	124.1
110°	115.3	117.5	123.0	120.8	119.2	134.0	153.8	152.7	154.3	145.0	127.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	143.4	141.2	145.5	141.2	143.9	156.5	177.4	175.2	180.2	176.9	159.3
115°	176.9	178.0	182.3	173.6	176.3	188.9	200.5	204.3	208.7	203.8	185.6
117.5°	163.7	173.0	167.5	166.4	164.2	174.1	172.5	182.3	186.7	182.9	175.8
120°	175.2	186.7	170.8	162.6	159.3	184.0	196.1	195.5	192.2	184.5	169.7
122.5°	262.0	263.6	264.7	289.4	280.7	304.8	312.0	302.6	302.6	312.5	282.3
125°	408.6	410.3	409.2	420.2	414.1	437.2	446.5	446.0	440.5	435.5	405.9
127.5°	413.0	413.0	409.2	403.1	408.6	431.2	431.7	452.6	445.4	432.3	404.8
130°	288.4	290.5	304.3	308.7	316.4	321.3	315.8	333.9	337.2	335.0	316.4
132.5°	238.9	242.8	257.6	263.1	268.0	268.6	266.4	280.7	284.0	284.0	275.7
135°	206.5	210.9	212.6	209.8	217.0	222.4	226.8	238.4	237.3	235.1	227.9
137.5°	180.2	181.8	176.9	170.8	174.7	190.6	199.4	211.5	210.9	207.1	195.0
140°	152.1	152.7	149.9	147.2	151.0	164.8	173.0	186.2	184.5	181.8	167.5
142.5°	115.3	117.0	124.1	129.6	139.0	167.5	163.1	174.7	182.9	189.5	156.5
145°	121.4	119.2	118.1	124.1	136.2	177.4	164.8	179.6	183.4	187.8	149.9
147.5°	140.1	141.2	139.5	135.7	152.1	165.3	158.2	171.4	173.6	172.5	157.1
150°	109.8	111.5	112.0	110.4	130.7	130.2	123.0	132.9	134.0	134.0	123.6
152.5°	89.5	90.1	89.0	87.9	101.1	98.9	95.6	98.9	98.3	97.8	95.6
155°	85.1	85.1	84.0	84.6	93.4	91.2	89.0	91.2	90.1	88.4	86.2
157.5°	78.5	79.1	79.1	80.7	86.2	82.4	80.2	81.3	80.2	79.1	79.1
160°	74.1	74.1	74.7	76.9	80.2	76.3	74.7	75.2	74.7	73.6	74.1
162.5°	72.5	72.5	73.0	74.1	74.7	72.5	70.9	70.9	70.9	70.9	72.5
165°	71.4	71.4	71.4	72.0	72.0	70.3	69.8	70.3	70.9	71.4	73.6
167.5°	73.6	73.6	73.6	73.6	73.0	72.0	71.4	72.0	72.5	73.0	74.7
170°	76.9	76.3	76.3	75.8	75.2	74.1	73.6	73.0	73.0	73.6	74.1
172.5°	79.1	79.1	78.5	78.5	78.0	76.9	75.8	75.2	75.2	75.2	75.2
175°	81.8	81.8	81.8	81.8	81.3	80.2	79.6	78.5	78.5	78.5	78.5
177.5°	85.1	85.1	85.1	85.1	84.0	82.9	81.8	80.7	80.7	80.7	80.2
180°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
2.5°	39.5	39.0	37.3	36.8	36.2	35.2	34.1	33.5	33.0	33.0	33.5
5°	52.7	52.2	52.2	50.5	48.9	46.1	45.0	45.0	45.6	46.1	47.2
7.5°	66.5	67.6	68.7	65.9	61.0	54.4	50.5	51.6	54.4	56.6	56.6
10°	76.9	76.9	80.7	77.4	69.2	61.0	55.5	54.4	54.9	55.5	56.0
12.5°	91.7	91.7	89.5	80.7	72.5	64.3	59.9	58.8	58.8	56.6	56.0
15°	102.7	99.4	91.7	83.5	76.3	68.1	63.2	61.5	59.9	58.2	57.7
17.5°	109.3	103.3	92.8	85.1	78.0	71.4	66.5	63.2	61.5	62.1	62.1
20°	117.0	110.4	101.1	92.8	84.0	75.2	69.2	64.3	62.6	63.2	62.6
22.5°	123.0	116.4	107.1	97.8	88.4	79.1	72.0	65.9	63.7	64.3	64.3
25°	130.2	124.7	114.8	103.8	92.3	83.5	76.3	69.2	65.9	65.4	65.4
27.5°	137.3	133.5	123.0	109.8	97.8	87.3	80.2	72.0	68.1	66.5	66.5
30°	146.6	142.3	131.8	115.9	102.7	92.8	85.1	76.3	70.9	68.1	67.6
32.5°	161.5	156.5	143.9	126.9	108.2	98.3	90.1	80.2	73.0	69.8	69.2
35°	209.8	202.1	182.3	162.6	132.4	109.8	96.1	83.5	75.2	70.9	70.3
37.5°	240.0	221.3	195.0	181.8	148.8	134.6	115.9	95.6	78.5	73.0	72.0
40°	288.9	263.1	230.1	204.3	145.0	147.2	135.7	119.2	93.4	76.9	75.2
42.5°	330.1	297.7	247.7	214.2	145.5	153.8	145.0	131.3	112.0	91.2	87.9
45°	407.0	365.2	287.8	230.1	149.4	163.7	152.7	138.4	121.4	107.1	105.5
47.5°	549.8	493.2	359.8	256.5	174.7	190.0	170.3	151.6	136.2	119.7	117.0
50°	752.5	684.9	442.7	277.4	218.0	250.5	214.8	183.4	165.9	153.8	152.1
52.5°	985.9	915.0	503.7	315.8	270.8	325.2	284.0	247.7	224.6	224.6	227.9
55°	1257.2	1186.4	552.5	369.1	335.6	407.5	363.0	333.4	322.4	369.1	381.7
57.5°	1526.3	1436.3	585.5	423.5	411.4	504.2	450.9	425.7	446.0	584.4	627.2
60°	1771.9	1623.0	611.3	475.1	476.2	581.1	541.6	539.9	571.2	748.1	802.4
62.5°	1913.6	1710.9	609.7	504.8	514.1	628.9	595.9	604.7	622.3	775.5	816.7
65°	2010.8	1752.6	597.0	517.9	530.0	645.9	604.7	589.9	578.4	686.6	726.1
67.5°	1943.8	1654.9	568.5	498.7	520.1	621.2	566.8	524.5	502.0	556.9	583.8
70°	1627.9	1380.2	503.1	448.7	468.5	523.4	471.2	429.5	405.9	435.5	448.2
72.5°	1233.0	1050.1	453.7	419.6	410.8	432.8	383.4	336.7	322.4	341.6	344.4
75°	982.0	821.7	417.4	379.5	344.9	366.3	305.9	249.4	241.1	241.1	236.7
77.5°	736.5	609.1	355.9	295.5	254.3	289.4	227.9	173.6	162.6	160.4	154.3
80°	493.8	414.7	239.5	196.1	182.9	214.8	162.0	127.4	128.0	127.4	120.3
82.5°	344.9	320.2	194.4	170.8	156.5	169.2	146.6	122.5	121.4	122.5	114.8
85°	305.9	293.3	188.4	176.3	161.5	163.1	140.6	115.9	116.4	118.6	112.0
87.5°	293.8	279.6	188.9	170.3	157.6	151.0	127.4	107.1	110.4	112.6	107.1
90°	264.7	250.5	173.6	153.8	140.6	131.3	112.6	101.6	106.0	108.2	103.3
92.5°	229.6	214.8	144.5	135.7	132.4	132.4	118.1	108.2	110.9	112.0	107.7
95°	197.7	183.4	128.5	119.2	116.4	117.0	105.5	97.2	98.9	98.3	95.0
97.5°	159.8	151.0	112.0	106.0	103.3	102.2	94.5	88.4	91.7	93.9	91.2
100°	141.2	136.8	108.2	103.8	100.0	99.4	92.8	89.0	91.7	95.0	92.8
102.5°	131.8	128.5	103.3	97.2	94.5	93.4	89.0	84.6	87.3	90.6	89.0
105°	124.1	119.2	98.9	93.4	89.5	89.0	84.6	79.1	80.7	85.1	84.0
107.5°	117.5	114.2	98.3	92.3	87.3	87.3	82.4	78.0	78.5	80.2	80.2
110°	123.0	119.2	102.2	97.8	91.2	89.0	87.9	84.6	81.8	80.7	80.7



REPORT NUMBER: P856107
 CATALOG NUMBER: FFX-CLB-40-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	152.1	145.0	128.0	123.0	112.0	104.4	97.2	90.6	86.2	84.6	83.5
115°	179.6	171.4	151.0	138.4	123.6	112.0	102.2	95.0	88.4	86.2	88.4
117.5°	185.1	163.1	131.8	121.4	112.6	105.5	100.0	94.5	89.5	91.2	89.5
120°	183.4	156.5	132.9	147.7	132.9	116.4	103.3	103.3	101.6	93.4	95.0
122.5°	282.3	263.6	235.1	226.3	184.5	168.6	143.9	123.0	102.7	91.2	85.7
125°	386.7	368.5	324.6	291.1	249.4	205.4	157.6	121.4	95.0	84.0	85.7
127.5°	388.9	372.4	330.6	274.1	219.1	175.8	131.3	107.7	92.8	85.7	84.6
130°	303.2	287.3	251.6	208.2	173.6	145.0	118.1	97.2	84.0	78.5	76.9
132.5°	262.5	248.3	215.3	175.8	150.5	128.0	105.5	84.6	75.8	72.0	72.5
135°	220.8	203.8	172.5	151.0	135.1	114.8	94.5	77.4	73.0	72.0	71.4
137.5°	187.3	175.2	153.2	136.8	121.4	103.3	82.9	72.5	70.9	72.0	70.9
140°	159.3	149.4	137.3	123.0	104.4	87.3	74.1	69.2	72.0	72.5	72.0
142.5°	137.3	127.4	114.8	95.6	86.8	79.1	75.8	72.0	72.0	71.4	70.9
145°	114.8	101.6	95.6	98.3	92.8	85.1	79.1	71.4	68.7	68.7	69.2
147.5°	131.8	118.1	110.4	104.4	93.9	82.9	73.6	66.5	65.4	67.6	67.0
150°	113.7	101.1	95.6	87.3	80.7	72.5	66.5	63.7	64.3	67.0	67.0
152.5°	90.6	81.8	78.5	76.3	73.0	68.1	64.8	63.7	64.8	65.9	65.9
155°	85.1	80.2	76.3	74.7	70.9	67.0	64.3	63.7	64.8	65.9	67.0
157.5°	79.6	78.0	73.0	71.4	68.1	66.5	64.8	64.8	65.4	66.5	67.6
160°	75.8	75.2	70.9	70.3	68.1	67.0	67.0	67.6	68.1	68.1	68.1
162.5°	73.6	73.6	72.0	70.9	70.3	69.8	71.4	72.0	71.4	71.4	71.4
165°	74.1	74.7	73.0	72.0	71.4	72.5	75.2	75.2	74.1	73.6	73.0
167.5°	74.7	75.2	74.1	73.6	73.6	74.7	75.8	75.2	74.7	74.1	73.6
170°	74.1	74.7	74.7	75.2	75.2	75.2	76.3	76.3	75.2	74.7	74.7
172.5°	75.2	75.8	76.3	76.9	77.4	76.9	77.4	77.4	77.4	77.4	78.0
175°	78.5	78.5	79.1	79.1	78.5	79.1	79.1	79.1	79.6	80.7	80.7
177.5°	80.2	80.2	79.6	79.6	79.1	79.6	79.6	79.6	79.6	80.2	79.6
180°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3

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: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

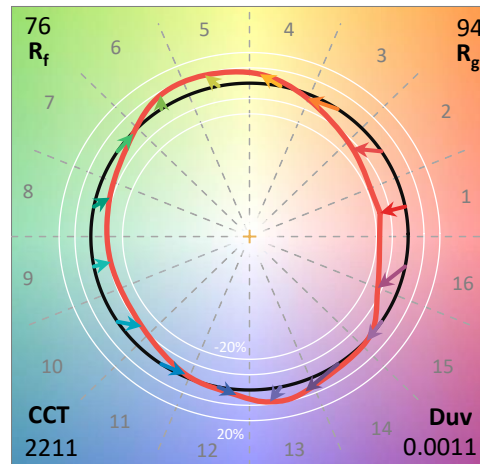
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 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-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

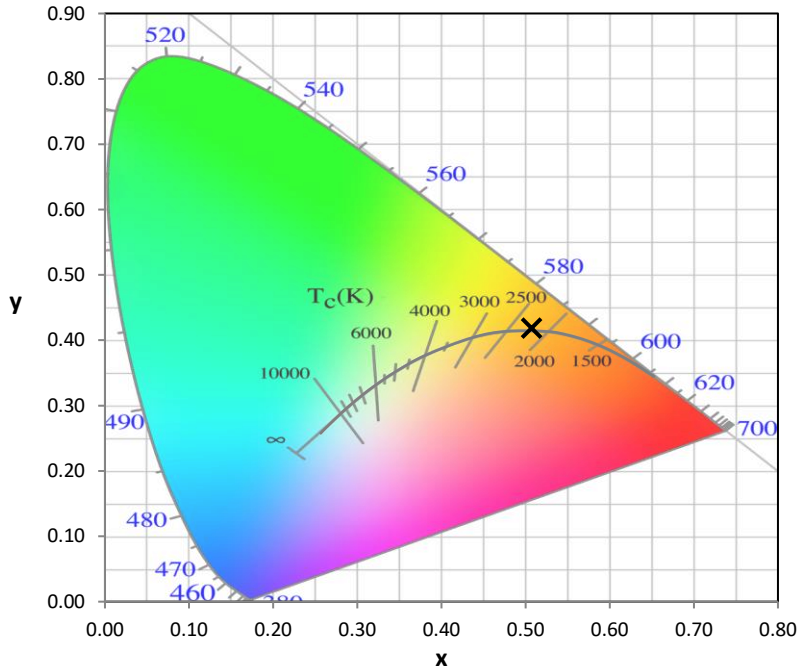
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

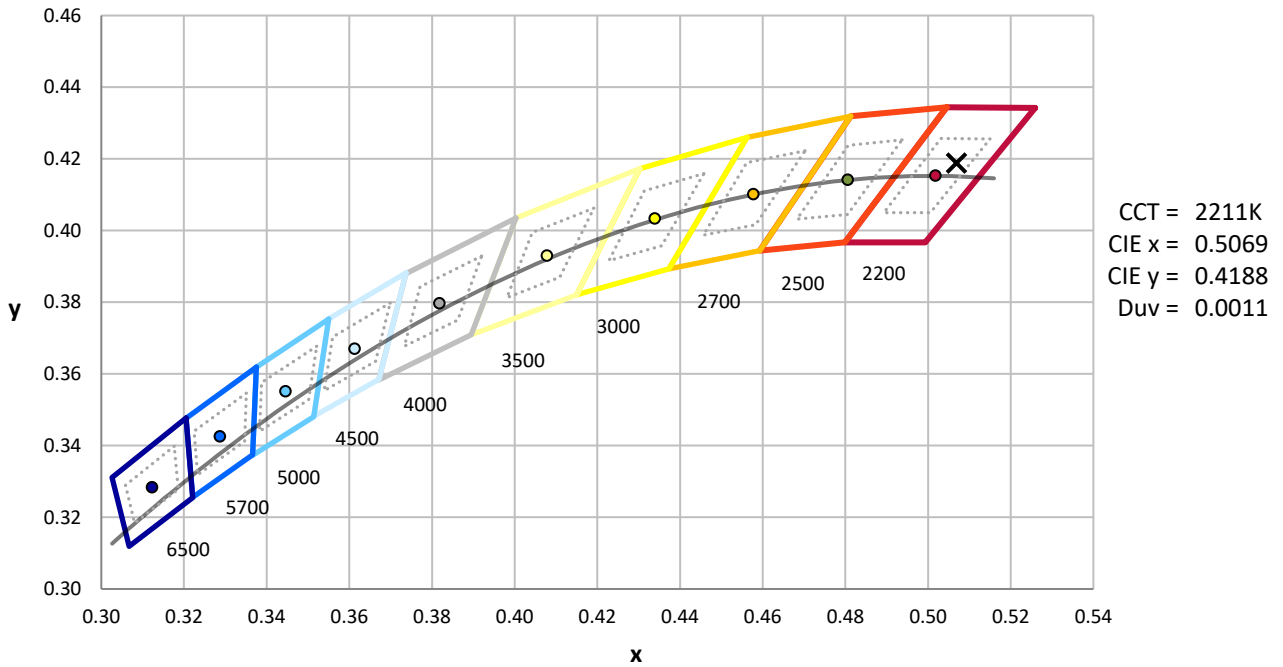
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



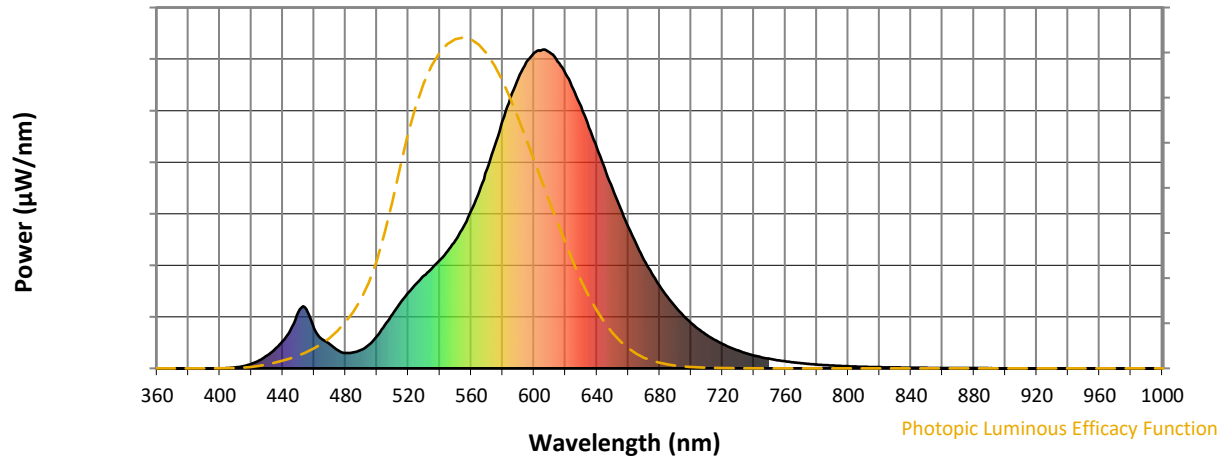
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

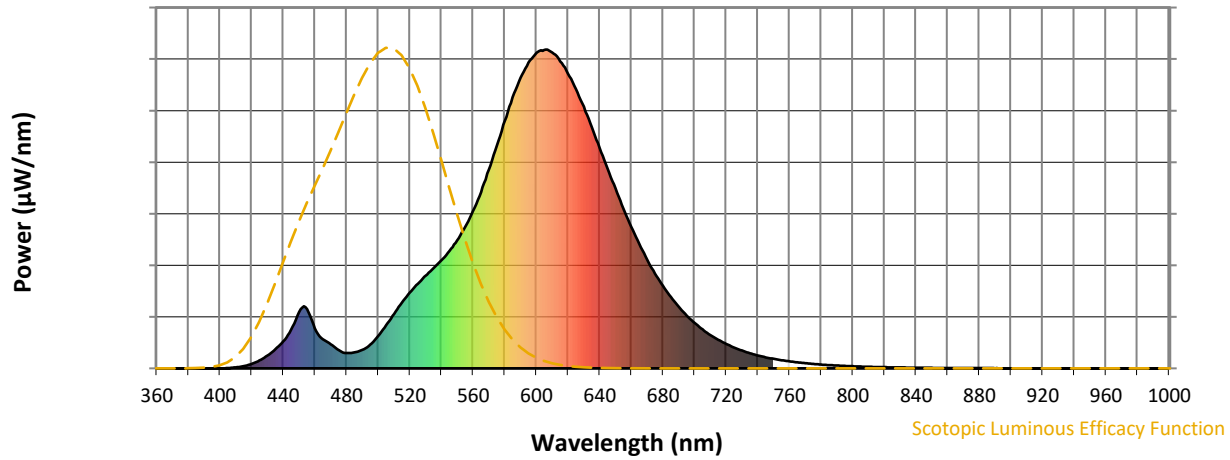


Photopic Lumens: NR

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

Scotopic Flux vs. Wavelength



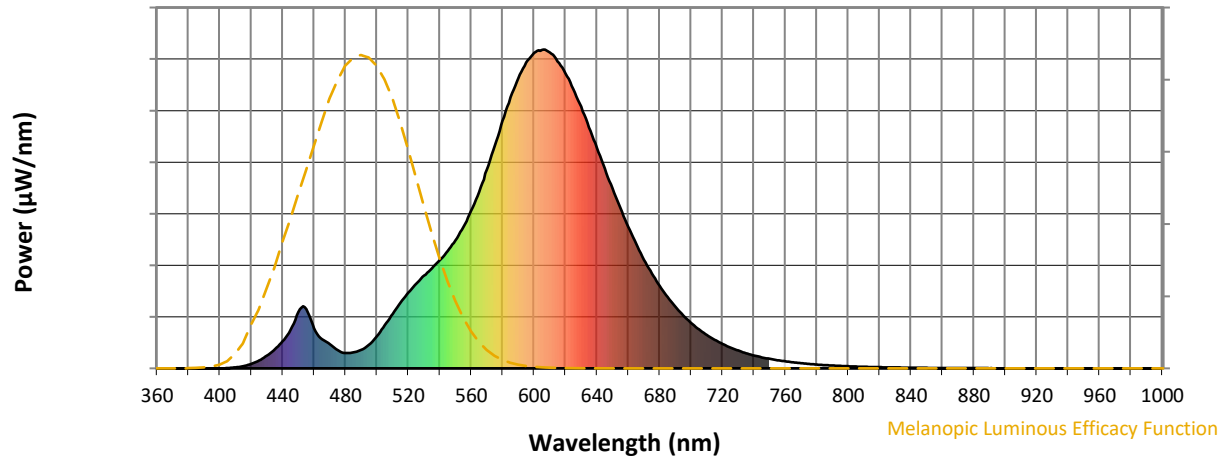
Scotopic Lumens: NR

S/P: 0.87

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

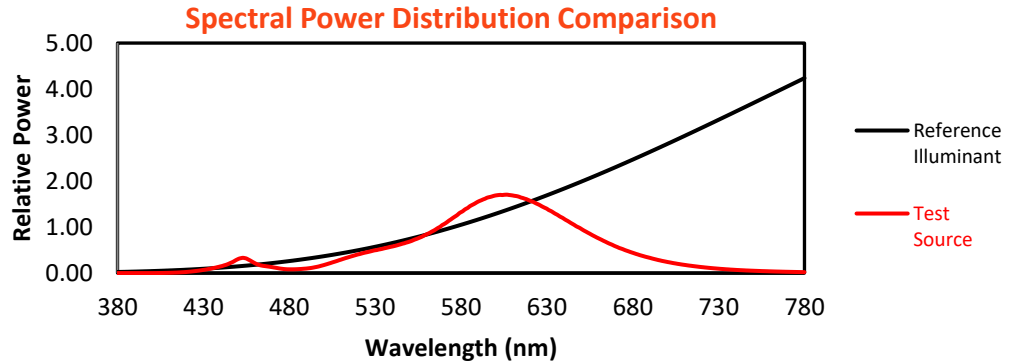
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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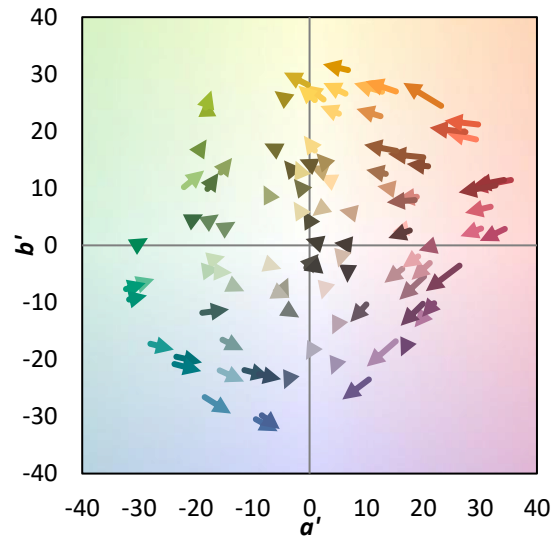
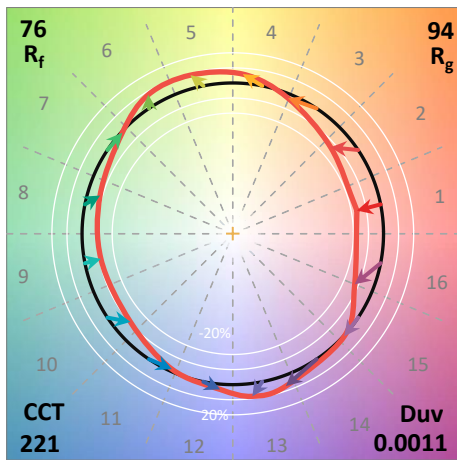
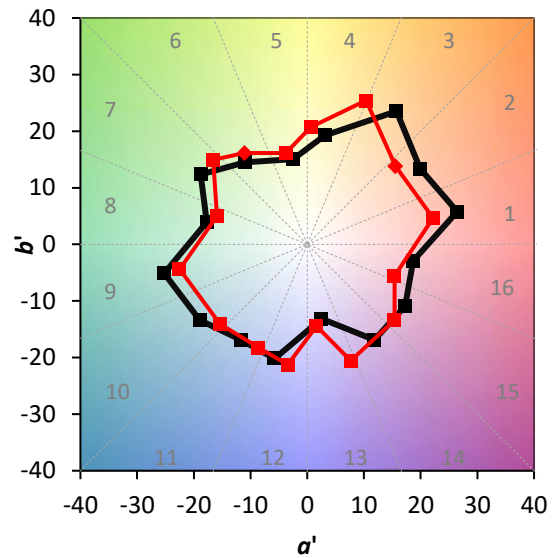
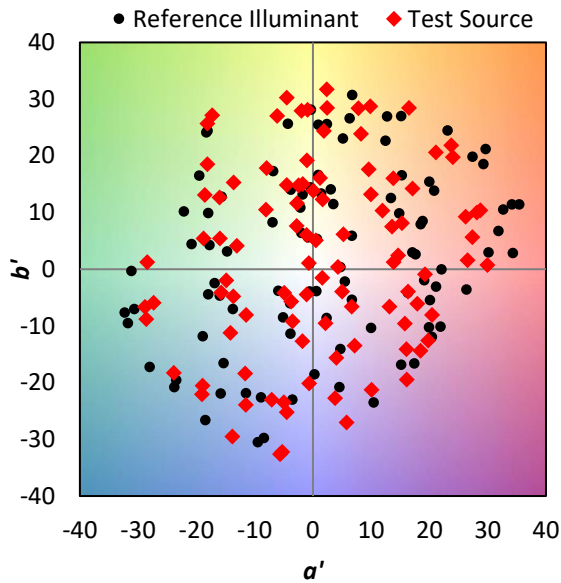
TM-30-18

Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_9 = -29.2$



Color Vector Graphics

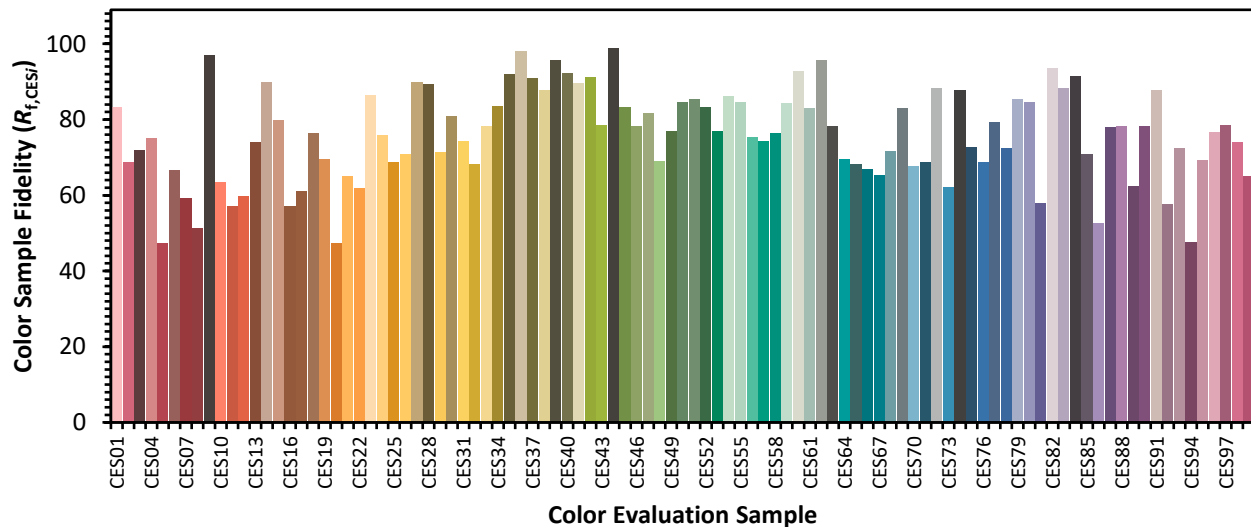


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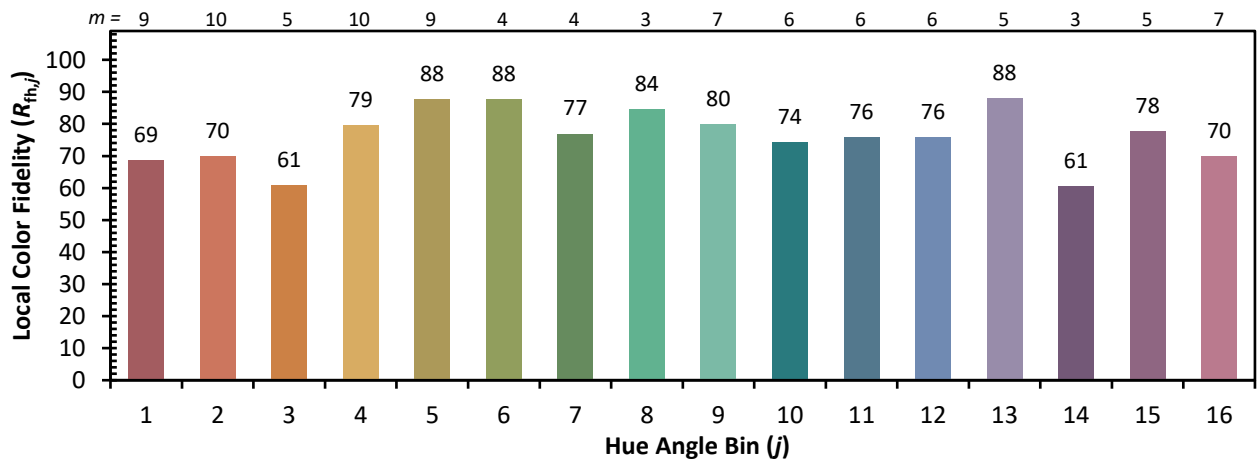
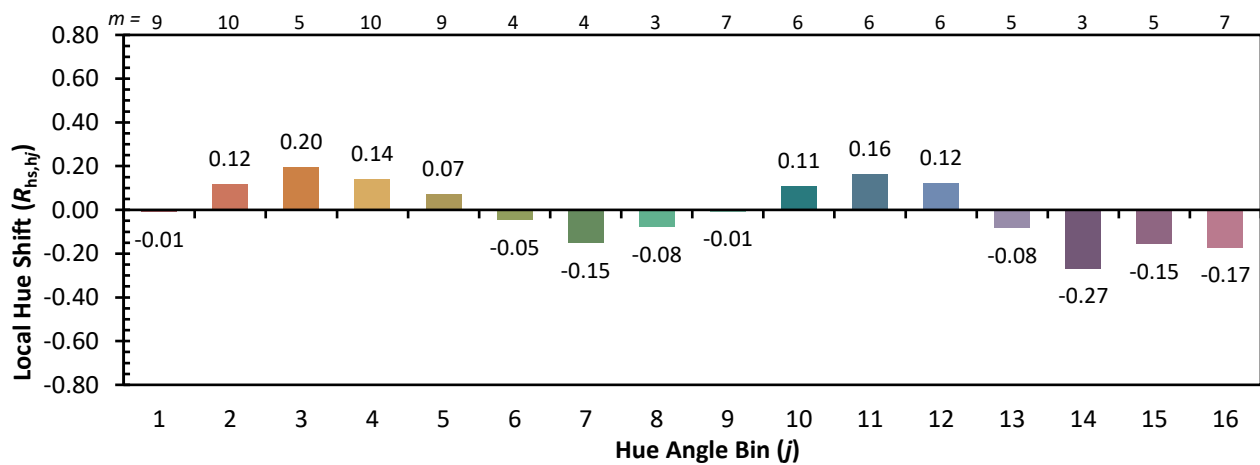
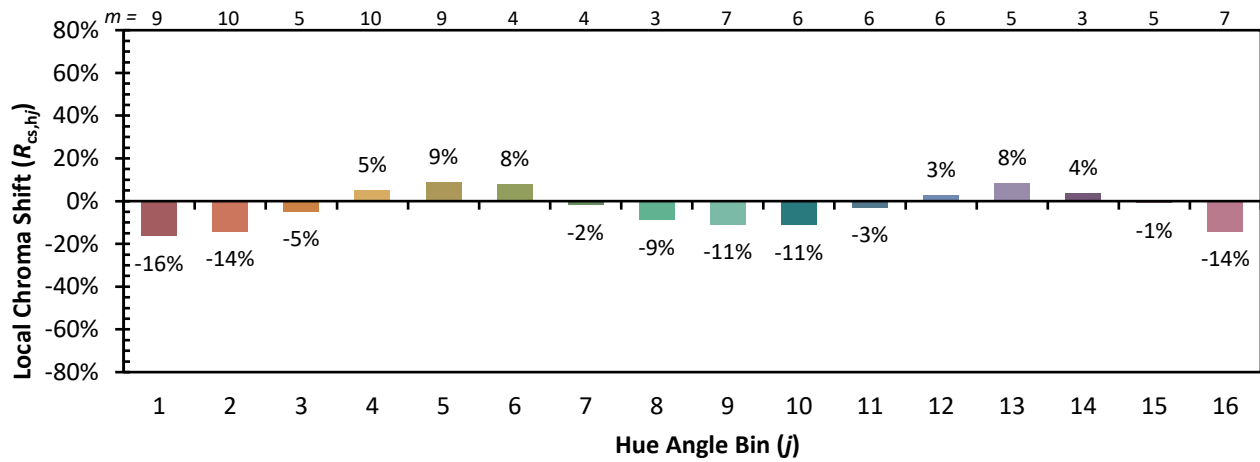
TM-30-18

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

CES01 = 87	CES26 = 71	CES51 = 85	CES76 = 69
CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



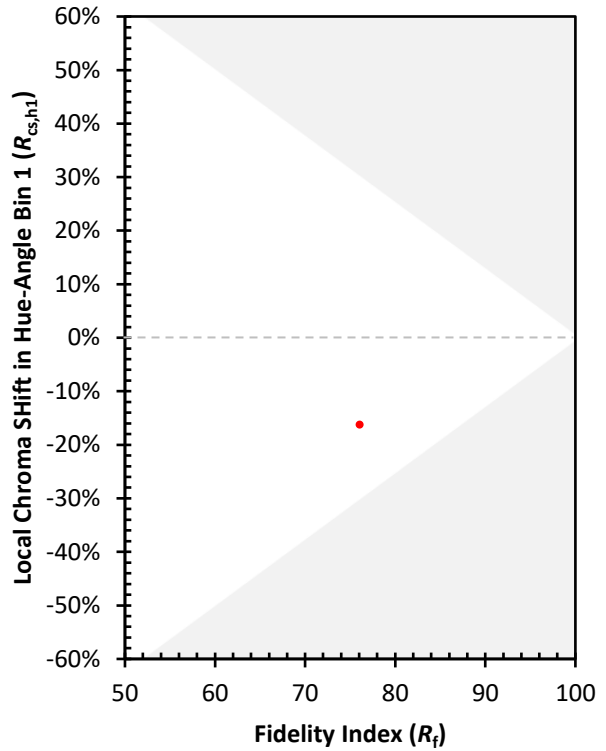
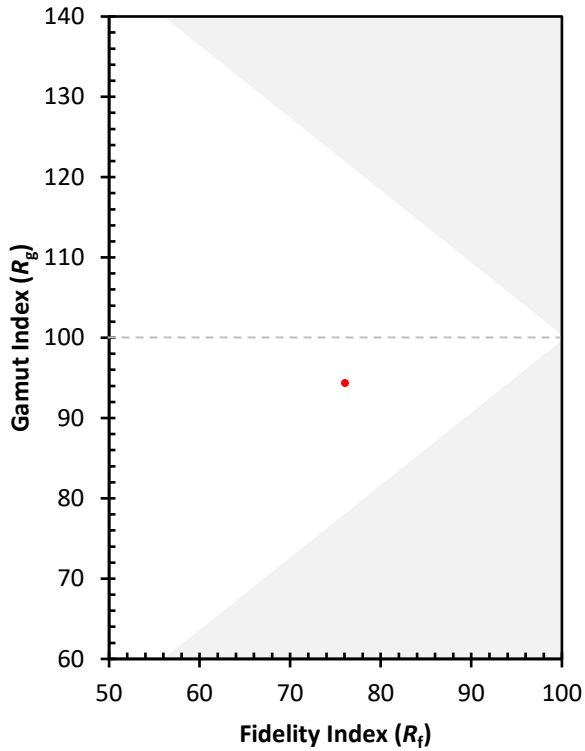
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)