

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: P856103

Luminaire Tested: **FFX-CLB-80-722-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856103
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-722-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

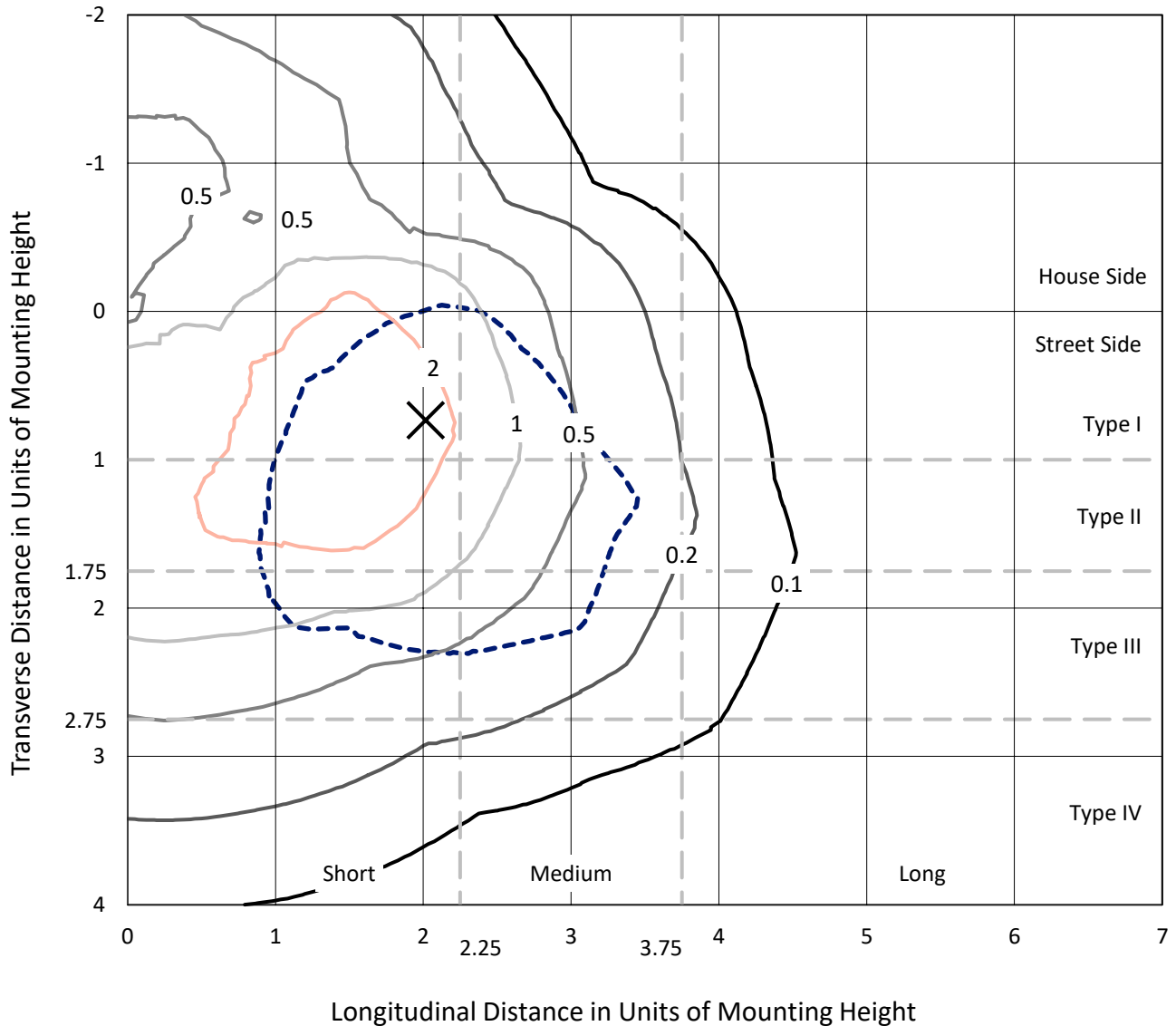
Lumens per Lamp: N/A
Luminaire Lumens: 10743.2 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.1%%
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

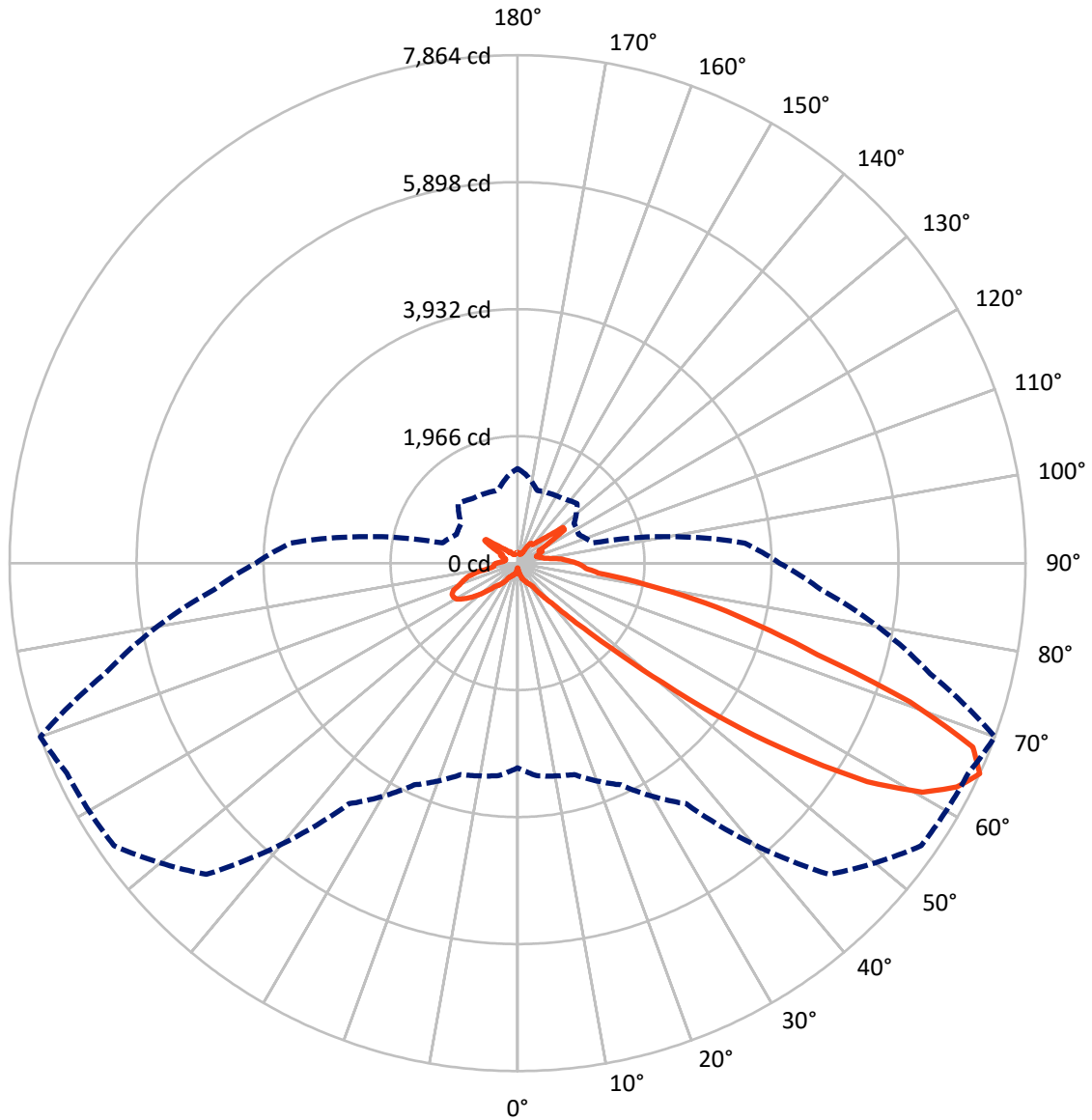
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 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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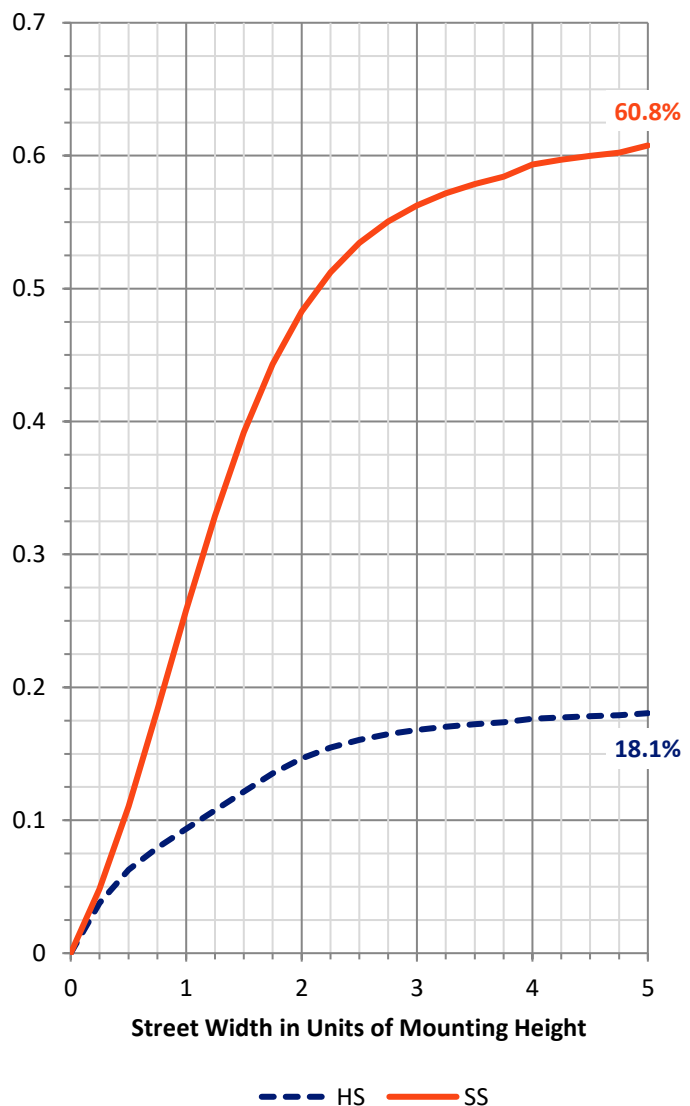
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2023.7	721.9	2745.6
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	6748.3	1249.3	7997.5
	% Fixture	62.8	11.6	74.4
Total	Lumens	8772.0	1971.2	10743.2
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	0.1
10°-20°	56.3	0.5
20°-30°	119.5	1.1
30°-40°	243.3	2.3
40°-50°	618.6	5.8
50°-60°	1988.2	18.5
60°-70°	3244.7	30.2
70°-80°	1847.2	17.2
80°-90°	642.7	6.0
90°-100°	400.0	3.7
100°-110°	254.7	2.4
110°-120°	280.2	2.6
120°-130°	473.9	4.4
130°-140°	279.4	2.6
140°-150°	150.4	1.4
150°-160°	76.0	0.7
160°-170°	41.6	0.4
170°-180°	15.0	0.1
0°-90°	8772.0	81.7
0°-180°	10743.2	100.0

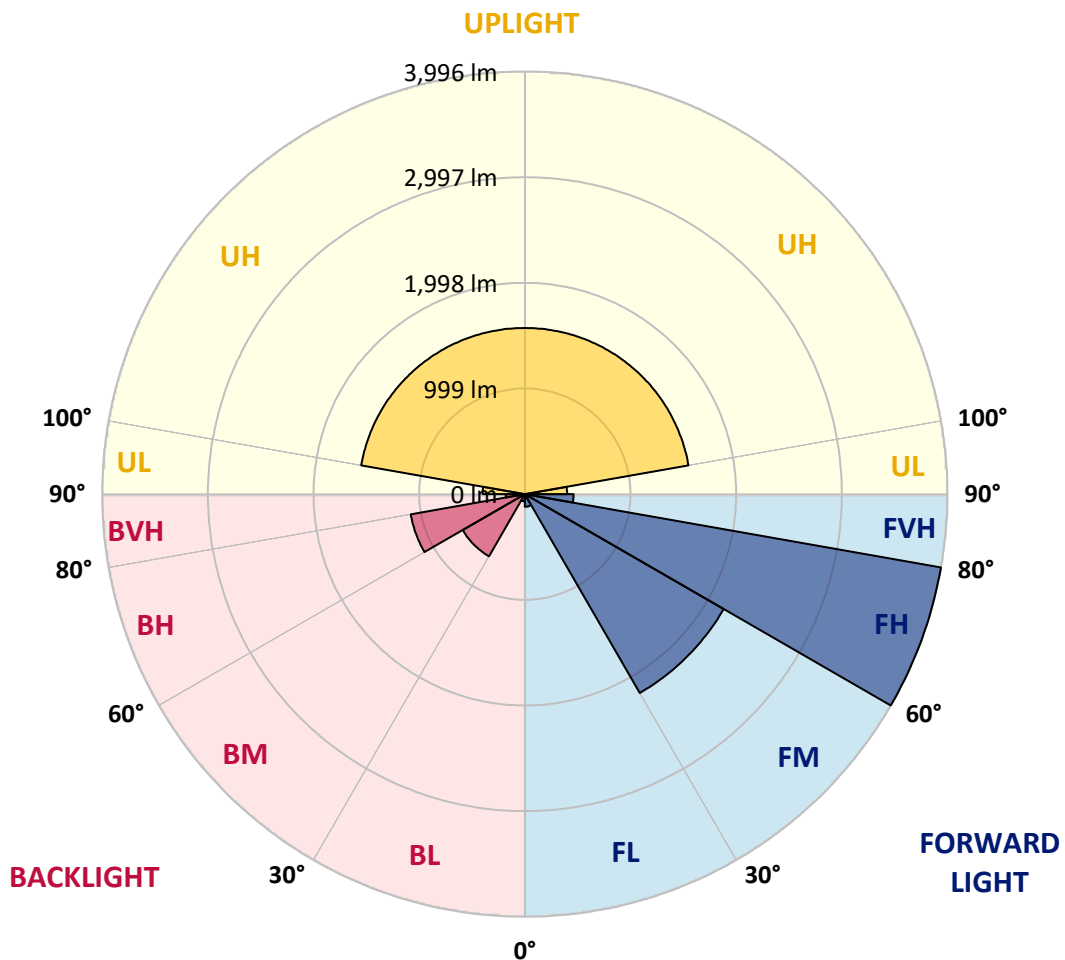


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.2	1.1			
FM (30°-60°)	2171.9	20.2			
FH (60°-80°)	3996.3	37.2			G2/5000
FVH (80°-90°)	460.9	4.3			G3/500
BL (0°-30°)	68.0	0.6	B0/110		
BM (30°-60°)	678.2	6.3	B1/1000		
BH (60°-80°)	1095.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	181.9	1.7			G2/225
UL (90°-100°)	400.0	3.7		U3/500	
UH (100°-180°)	1571.2	14.6		U5	

BUG Rating: B3-U5-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
2.5°	85.2	85.2	87.5	87.5	87.5	85.2	84.1	81.9	81.9	81.9	80.8
5°	110.7	109.6	110.7	114.0	115.1	111.8	109.6	106.3	106.3	105.2	105.2
7.5°	149.5	148.3	146.1	142.8	143.9	147.2	151.7	142.8	140.6	135.1	132.8
10°	187.1	184.9	187.1	181.6	176.0	168.3	172.7	170.5	166.1	160.5	156.1
12.5°	228.1	229.2	233.6	229.2	220.3	208.1	205.9	200.4	196.0	194.8	188.2
15°	270.1	271.2	275.7	274.6	265.7	249.1	242.5	236.9	234.7	228.1	213.7
17.5°	292.3	293.4	294.5	295.6	290.1	276.8	266.8	256.8	253.5	251.3	233.6
20°	303.3	301.1	303.3	307.8	312.2	301.1	291.2	285.6	282.3	274.6	251.3
22.5°	321.1	318.8	317.7	321.1	334.3	326.6	316.6	311.1	307.8	297.8	262.4
25°	339.9	337.7	341.0	338.8	355.4	352.1	342.1	336.6	332.1	319.9	279.0
27.5°	360.9	358.7	362.0	359.8	373.1	375.3	368.7	364.2	357.6	339.9	291.2
30°	378.6	376.4	379.7	378.6	391.9	399.7	396.3	395.2	385.3	364.2	312.2
32.5°	393.0	391.9	399.7	403.0	406.3	424.0	421.8	431.8	420.7	395.2	343.2
35°	426.2	429.5	450.6	472.7	476.0	511.5	515.9	552.4	541.4	508.2	445.0
37.5°	658.7	646.5	625.5	604.5	596.7	665.4	675.3	711.9	684.2	622.2	520.3
40°	701.9	682.0	657.6	641.0	643.2	766.1	745.1	883.5	804.8	711.9	635.5
42.5°	666.5	659.8	745.1	784.9	756.1	935.5	900.1	1163.5	1073.9	845.8	767.2
45°	835.8	822.6	852.5	892.3	901.2	1231.1	1206.7	1482.4	1445.8	1057.3	984.2
47.5°	956.5	944.3	984.2	1119.3	1235.5	1592.0	1724.8	2122.3	1993.9	1502.3	1332.9
50°	1318.5	1316.3	1439.2	1599.7	1803.4	2316.0	2669.2	3115.3	2908.3	2126.7	1827.8
52.5°	1676.1	1680.5	1831.1	2115.6	2327.1	3232.7	3734.2	4046.4	4074.1	2773.2	2369.2
55°	1946.2	1973.9	2155.5	2632.6	2952.6	4048.6	4699.6	4942.0	5218.8	3747.5	2932.7
57.5°	2473.2	2515.3	2688.0	3155.2	3602.4	5064.9	5943.9	5970.5	6383.4	4828.0	3537.1
60°	2933.8	3032.3	3093.2	3517.2	4127.2	6035.8	6868.3	6815.2	7202.7	5723.6	4150.4
62.5°	3076.6	3189.5	3247.1	3698.8	4542.4	6580.5	7300.1	7366.5	7633.3	6352.4	4525.7
65°	3169.6	3302.4	3388.8	3788.4	4546.8	6813.0	7627.8	7698.6	7863.6	6615.9	4712.8
67.5°	3122.0	3291.4	3402.1	3757.4	4307.7	6633.6	7562.5	7426.3	7601.2	6395.6	4503.6
70°	2725.6	2902.8	3014.6	3279.2	3601.3	5577.5	6519.6	6291.5	6445.4	5338.3	3703.2
72.5°	2220.8	2308.3	2376.9	2521.9	2714.6	4113.9	4954.2	4764.9	4856.8	4016.5	2775.5
75°	1824.5	1851.0	1936.3	2019.3	2051.4	3009.0	3924.6	3751.9	3859.3	3057.8	2208.6
77.5°	1325.2	1340.7	1462.5	1475.7	1468.0	2064.7	3093.2	2941.5	2975.8	2272.8	1648.4
80°	769.4	799.3	958.7	951.0	937.7	1272.0	2177.6	2116.7	2010.5	1543.3	1141.4
82.5°	542.5	572.4	645.4	662.0	653.2	913.3	1413.7	1373.9	1258.8	1073.9	789.3
85°	571.3	574.6	577.9	585.6	571.3	814.8	1082.7	1062.8	1063.9	887.9	651.0
87.5°	563.5	576.8	582.3	585.6	571.3	773.9	1006.3	980.9	993.1	843.6	632.1
90°	494.9	519.2	521.4	527.0	519.2	690.8	903.4	879.0	894.5	760.6	575.7
92.5°	404.1	417.4	432.9	453.9	445.0	591.2	768.3	750.6	769.4	658.7	505.9
95°	383.1	397.4	407.4	421.8	408.5	539.1	694.1	658.7	674.2	576.8	436.2
97.5°	316.6	328.8	337.7	343.2	333.2	425.1	532.5	508.2	507.0	446.2	348.7
100°	270.1	277.9	285.6	291.2	282.3	352.1	421.8	412.9	415.2	368.7	300.0
102.5°	256.8	261.3	273.4	274.6	264.6	321.1	379.7	376.4	380.8	341.0	281.2
105°	251.3	254.6	264.6	261.3	252.4	300.0	349.8	352.1	352.1	317.7	263.5
107.5°	234.7	240.2	251.3	245.8	241.3	276.8	322.2	314.4	316.6	295.6	250.2
110°	232.5	236.9	248.0	243.6	240.2	270.1	310.0	307.8	311.1	292.3	256.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	288.9	284.5	293.4	284.5	290.1	315.5	357.6	353.2	363.1	356.5	321.1
115°	356.5	358.7	367.6	349.8	355.4	380.8	404.1	411.8	420.7	410.7	374.2
117.5°	329.9	348.7	337.7	335.4	331.0	350.9	347.6	367.6	376.4	368.7	354.3
120°	353.2	376.4	344.3	327.7	321.1	370.9	395.2	394.1	387.5	372.0	342.1
122.5°	528.1	531.4	533.6	583.4	565.7	614.4	628.8	610.0	610.0	629.9	569.0
125°	823.7	827.0	824.8	846.9	834.7	881.2	900.1	899.0	887.9	877.9	818.1
127.5°	832.5	832.5	824.8	812.6	823.7	869.1	870.2	912.2	897.8	871.3	815.9
130°	581.2	585.6	613.3	622.2	637.7	647.6	636.6	673.1	679.7	675.3	637.7
132.5°	481.6	489.3	519.2	530.3	540.3	541.4	536.9	565.7	572.4	572.4	555.8
135°	416.3	425.1	428.4	422.9	437.3	448.4	457.2	480.5	478.3	473.8	459.4
137.5°	363.1	366.4	356.5	344.3	352.1	384.2	401.9	426.2	425.1	417.4	393.0
140°	306.7	307.8	302.2	296.7	304.4	332.1	348.7	375.3	372.0	366.4	337.7
142.5°	232.5	235.8	250.2	261.3	280.1	337.7	328.8	352.1	368.7	381.9	315.5
145°	244.7	240.2	238.0	250.2	274.6	357.6	332.1	362.0	369.8	378.6	302.2
147.5°	282.3	284.5	281.2	273.4	306.7	333.2	318.8	345.4	349.8	347.6	316.6
150°	221.4	224.7	225.8	222.5	263.5	262.4	248.0	267.9	270.1	270.1	249.1
152.5°	180.5	181.6	179.3	177.1	203.7	199.3	192.6	199.3	198.2	197.1	192.6
155°	171.6	171.6	169.4	170.5	188.2	183.8	179.3	183.8	181.6	178.2	173.8
157.5°	158.3	159.4	159.4	162.7	173.8	166.1	161.6	163.8	161.6	159.4	159.4
160°	149.5	149.5	150.6	155.0	161.6	153.9	150.6	151.7	150.6	148.3	149.5
162.5°	146.1	146.1	147.2	149.5	150.6	146.1	142.8	142.8	142.8	142.8	146.1
165°	143.9	143.9	143.9	145.0	145.0	141.7	140.6	141.7	142.8	143.9	148.3
167.5°	148.3	148.3	148.3	148.3	147.2	145.0	143.9	145.0	146.1	147.2	150.6
170°	155.0	153.9	153.9	152.8	151.7	149.5	148.3	147.2	147.2	148.3	149.5
172.5°	159.4	159.4	158.3	158.3	157.2	155.0	152.8	151.7	151.7	151.7	151.7
175°	165.0	165.0	165.0	165.0	163.8	161.6	160.5	158.3	158.3	158.3	158.3
177.5°	171.6	171.6	171.6	171.6	169.4	167.2	165.0	162.7	162.7	162.7	161.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
2.5°	79.7	78.6	75.3	74.2	73.1	70.9	68.6	67.5	66.4	66.4	67.5
5°	106.3	105.2	105.2	101.9	98.5	93.0	90.8	90.8	91.9	93.0	95.2
7.5°	134.0	136.2	138.4	132.8	122.9	109.6	101.9	104.1	109.6	114.0	114.0
10°	155.0	155.0	162.7	156.1	139.5	122.9	111.8	109.6	110.7	111.8	112.9
12.5°	184.9	184.9	180.5	162.7	146.1	129.5	120.7	118.5	118.5	114.0	112.9
15°	207.0	200.4	184.9	168.3	153.9	137.3	127.3	124.0	120.7	117.4	116.2
17.5°	220.3	208.1	187.1	171.6	157.2	143.9	134.0	127.3	124.0	125.1	125.1
20°	235.8	222.5	203.7	187.1	169.4	151.7	139.5	129.5	126.2	127.3	126.2
22.5°	248.0	234.7	215.9	197.1	178.2	159.4	145.0	132.8	128.4	129.5	129.5
25°	262.4	251.3	231.4	209.2	186.0	168.3	153.9	139.5	132.8	131.7	131.7
27.5°	276.8	269.0	248.0	221.4	197.1	176.0	161.6	145.0	137.3	134.0	134.0
30°	295.6	286.7	265.7	233.6	207.0	187.1	171.6	153.9	142.8	137.3	136.2
32.5°	325.5	315.5	290.1	255.7	218.1	198.2	181.6	161.6	147.2	140.6	139.5
35°	422.9	407.4	367.6	327.7	266.8	221.4	193.7	168.3	151.7	142.8	141.7
37.5°	483.8	446.2	393.0	366.4	300.0	271.2	233.6	192.6	158.3	147.2	145.0
40°	582.3	530.3	463.9	411.8	292.3	296.7	273.4	240.2	188.2	155.0	151.7
42.5°	665.4	600.0	499.3	431.8	293.4	310.0	292.3	264.6	225.8	183.8	177.1
45°	820.3	736.2	580.1	463.9	301.1	329.9	307.8	279.0	244.7	215.9	212.6
47.5°	1108.2	994.2	725.1	517.0	352.1	383.1	343.2	305.6	274.6	241.3	235.8
50°	1516.7	1380.5	892.3	559.1	439.5	504.8	432.9	369.8	334.3	310.0	306.7
52.5°	1987.2	1844.4	1015.2	636.6	545.8	655.4	572.4	499.3	452.8	452.8	459.4
55°	2534.1	2391.3	1113.7	744.0	676.4	821.5	731.8	672.0	649.9	744.0	769.4
57.5°	3076.6	2895.0	1180.1	853.6	829.2	1016.3	908.9	858.0	899.0	1177.9	1264.3
60°	3571.4	3271.4	1232.2	957.6	959.8	1171.3	1091.6	1088.3	1151.4	1507.8	1617.4
62.5°	3857.1	3448.6	1228.9	1017.4	1036.2	1267.6	1201.2	1218.9	1254.3	1563.2	1646.2
65°	4053.0	3532.7	1203.4	1044.0	1068.3	1301.9	1218.9	1189.0	1165.8	1383.9	1463.6
67.5°	3918.0	3335.6	1145.8	1005.2	1048.4	1252.1	1142.5	1057.3	1011.9	1122.6	1176.8
70°	3281.4	2782.1	1014.1	904.5	944.3	1055.0	949.9	865.7	818.1	877.9	903.4
72.5°	2485.4	2116.7	914.4	845.8	828.1	872.4	772.7	678.6	649.9	688.6	694.1
75°	1979.5	1656.2	841.4	765.0	695.2	738.4	616.6	502.6	486.0	486.0	477.2
77.5°	1484.6	1227.8	717.4	595.6	512.6	583.4	459.4	349.8	327.7	323.3	311.1
80°	995.3	835.8	482.7	395.2	368.7	432.9	326.6	256.8	258.0	256.8	242.5
82.5°	695.2	645.4	391.9	344.3	315.5	341.0	295.6	246.9	244.7	246.9	231.4
85°	616.6	591.2	379.7	355.4	325.5	328.8	283.4	233.6	234.7	239.1	225.8
87.5°	592.3	563.5	380.8	343.2	317.7	304.4	256.8	215.9	222.5	227.0	215.9
90°	533.6	504.8	349.8	310.0	283.4	264.6	227.0	204.8	213.7	218.1	208.1
92.5°	462.8	432.9	291.2	273.4	266.8	266.8	238.0	218.1	223.6	225.8	217.0
95°	398.5	369.8	259.1	240.2	234.7	235.8	212.6	196.0	199.3	198.2	191.5
97.5°	322.2	304.4	225.8	213.7	208.1	205.9	190.4	178.2	184.9	189.3	183.8
100°	284.5	275.7	218.1	209.2	201.5	200.4	187.1	179.3	184.9	191.5	187.1
102.5°	265.7	259.1	208.1	196.0	190.4	188.2	179.3	170.5	176.0	182.7	179.3
105°	250.2	240.2	199.3	188.2	180.5	179.3	170.5	159.4	162.7	171.6	169.4
107.5°	236.9	230.3	198.2	186.0	176.0	176.0	166.1	157.2	158.3	161.6	161.6
110°	248.0	240.2	205.9	197.1	183.8	179.3	177.1	170.5	165.0	162.7	162.7



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 CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	306.7	292.3	258.0	248.0	225.8	210.3	196.0	182.7	173.8	170.5	168.3
115°	362.0	345.4	304.4	279.0	249.1	225.8	205.9	191.5	178.2	173.8	178.2
117.5°	373.1	328.8	265.7	244.7	227.0	212.6	201.5	190.4	180.5	183.8	180.5
120°	369.8	315.5	267.9	297.8	267.9	234.7	208.1	208.1	204.8	188.2	191.5
122.5°	569.0	531.4	473.8	456.1	372.0	339.9	290.1	248.0	207.0	183.8	172.7
125°	779.4	742.9	654.3	586.8	502.6	414.0	317.7	244.7	191.5	169.4	172.7
127.5°	783.8	750.6	666.5	552.4	441.7	354.3	264.6	217.0	187.1	172.7	170.5
130°	611.1	579.0	507.0	419.6	349.8	292.3	238.0	196.0	169.4	158.3	155.0
132.5°	529.2	500.4	434.0	354.3	303.3	258.0	212.6	170.5	152.8	145.0	146.1
135°	445.0	410.7	347.6	304.4	272.3	231.4	190.4	156.1	147.2	145.0	143.9
137.5°	377.5	353.2	308.9	275.7	244.7	208.1	167.2	146.1	142.8	145.0	142.8
140°	321.1	301.1	276.8	248.0	210.3	176.0	149.5	139.5	145.0	146.1	145.0
142.5°	276.8	256.8	231.4	192.6	174.9	159.4	152.8	145.0	145.0	143.9	142.8
145°	231.4	204.8	192.6	198.2	187.1	171.6	159.4	143.9	138.4	138.4	139.5
147.5°	265.7	238.0	222.5	210.3	189.3	167.2	148.3	134.0	131.7	136.2	135.1
150°	229.2	203.7	192.6	176.0	162.7	146.1	134.0	128.4	129.5	135.1	135.1
152.5°	182.7	165.0	158.3	153.9	147.2	137.3	130.6	128.4	130.6	132.8	132.8
155°	171.6	161.6	153.9	150.6	142.8	135.1	129.5	128.4	130.6	132.8	135.1
157.5°	160.5	157.2	147.2	143.9	137.3	134.0	130.6	130.6	131.7	134.0	136.2
160°	152.8	151.7	142.8	141.7	137.3	135.1	135.1	136.2	137.3	137.3	137.3
162.5°	148.3	148.3	145.0	142.8	141.7	140.6	143.9	145.0	143.9	143.9	143.9
165°	149.5	150.6	147.2	145.0	143.9	146.1	151.7	151.7	149.5	148.3	147.2
167.5°	150.6	151.7	149.5	148.3	148.3	150.6	152.8	151.7	150.6	149.5	148.3
170°	149.5	150.6	150.6	151.7	151.7	151.7	153.9	153.9	151.7	150.6	150.6
172.5°	151.7	152.8	153.9	155.0	156.1	155.0	156.1	156.1	156.1	156.1	157.2
175°	158.3	158.3	159.4	159.4	158.3	159.4	159.4	159.4	160.5	162.7	162.7
177.5°	161.6	161.6	160.5	160.5	159.4	160.5	160.5	160.5	160.5	161.6	160.5
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8

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.

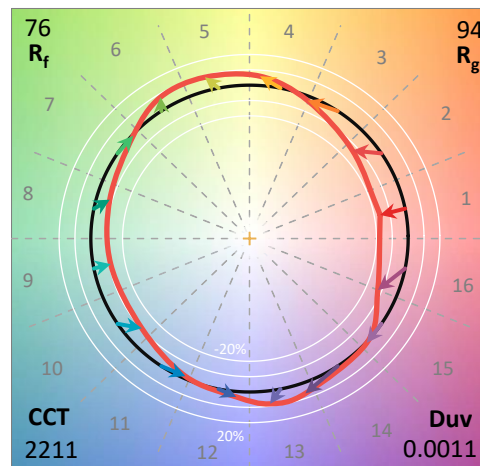
Test Information

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

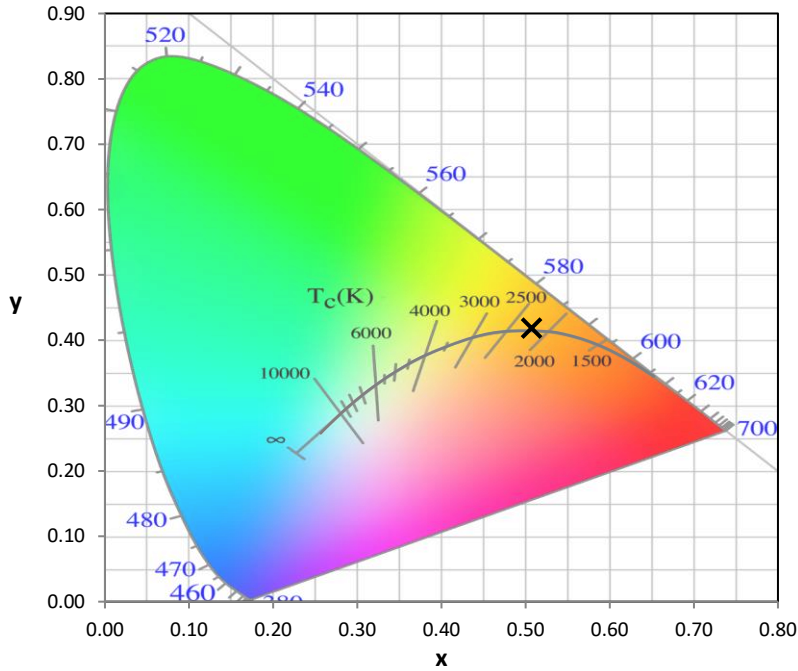
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

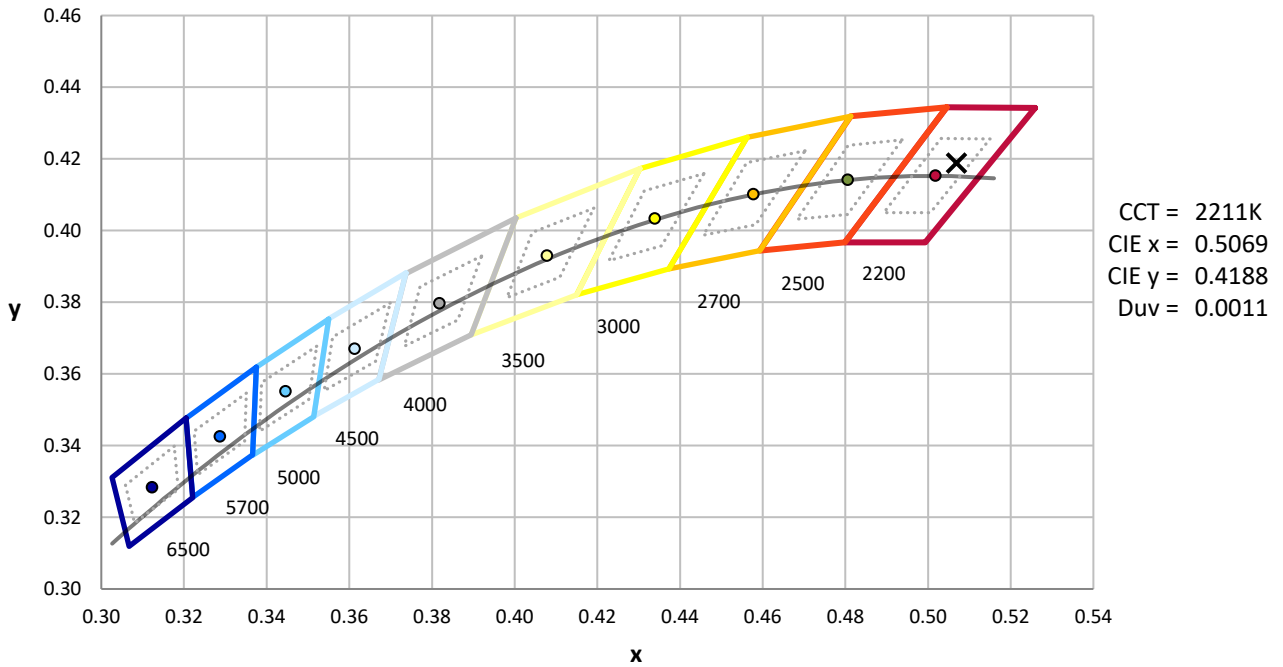
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

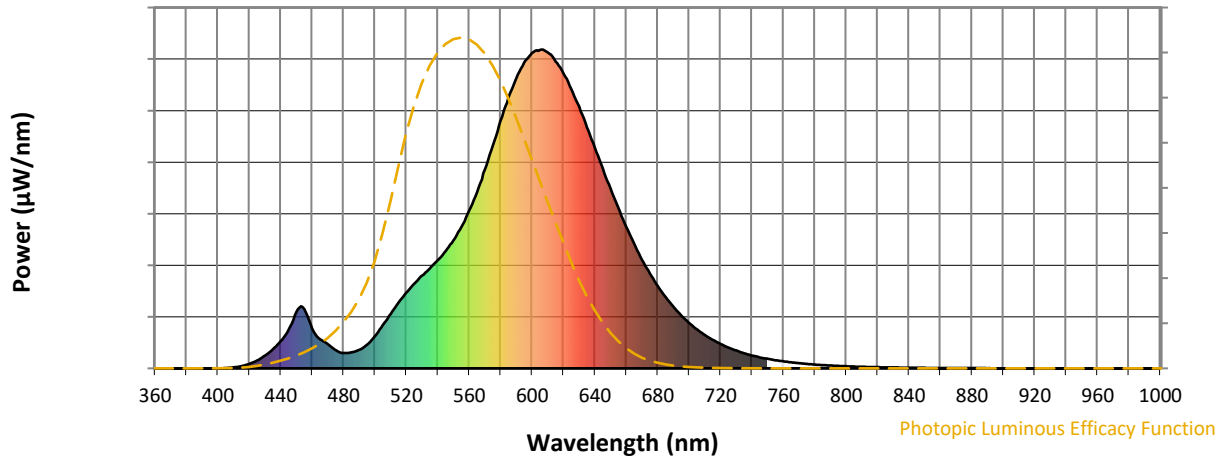


CCT = 2211K
CIE x = 0.5069
CIE y = 0.4188
Duv = 0.0011

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

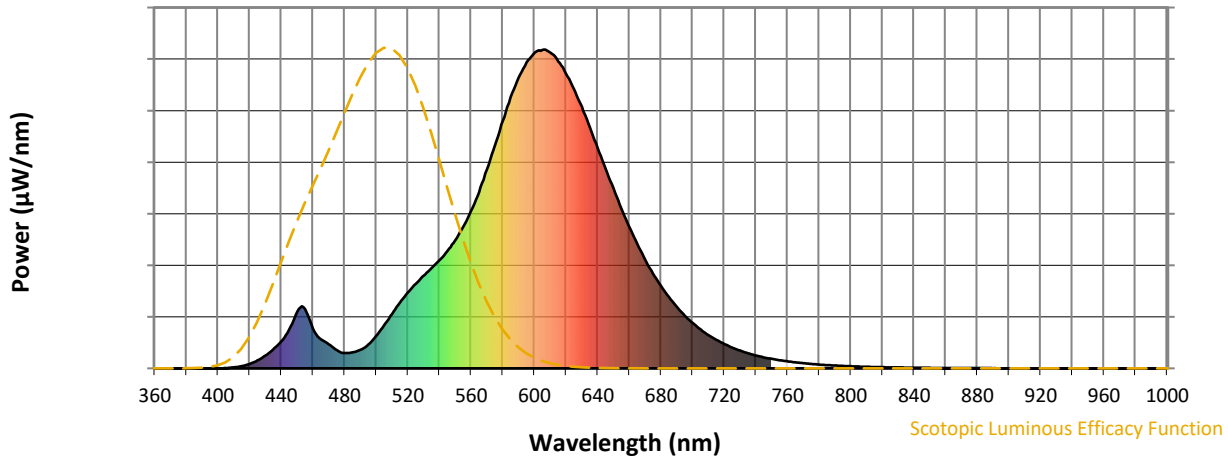


Photopic Lumens: NR

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



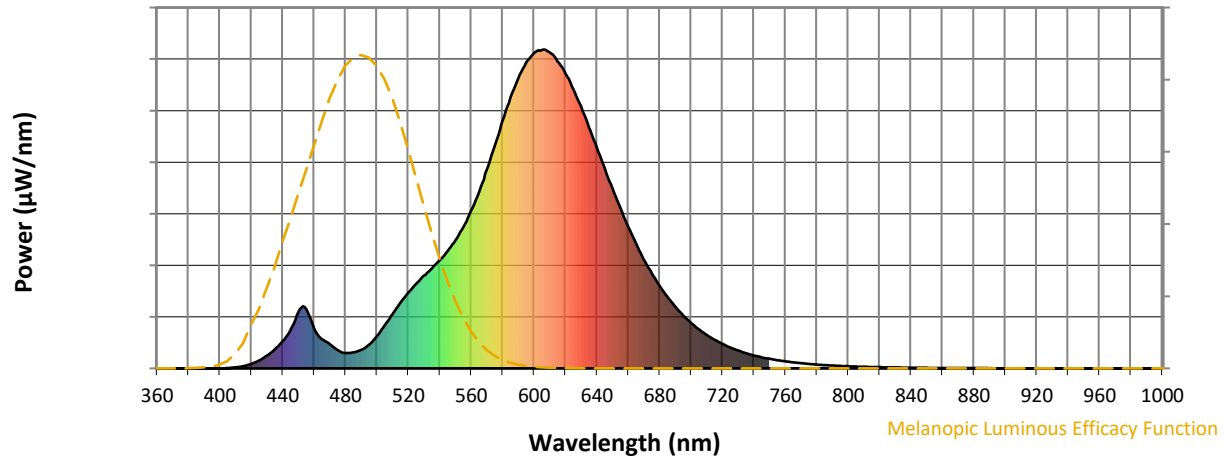
Scotopic Lumens: NR

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

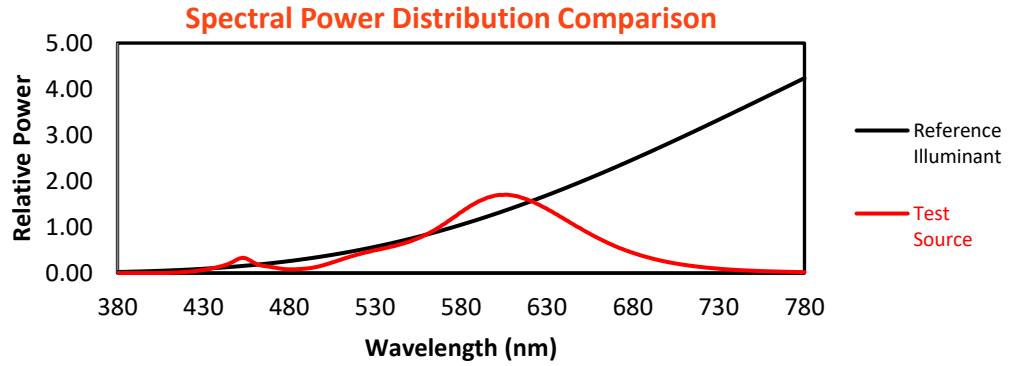
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	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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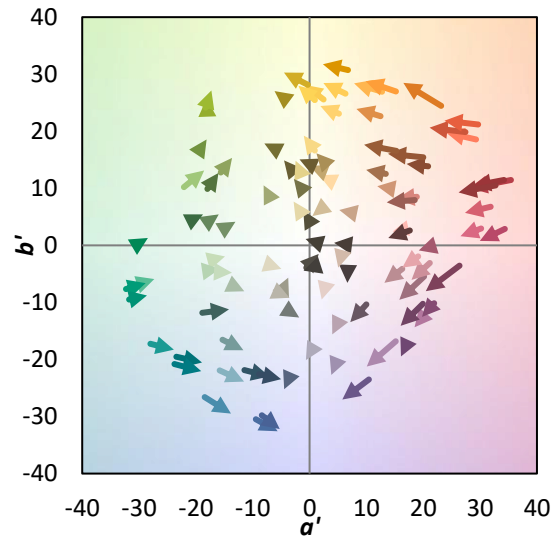
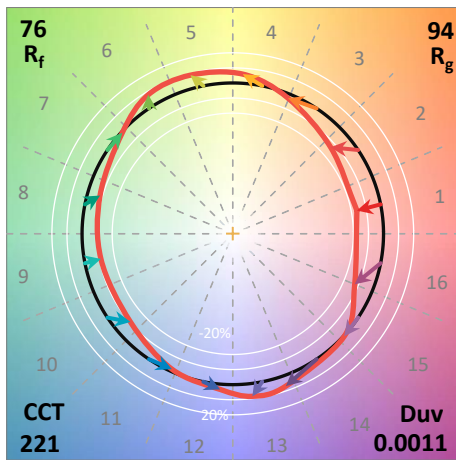
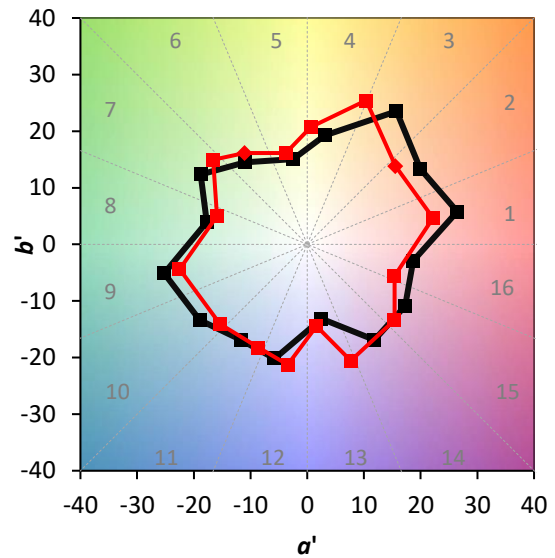
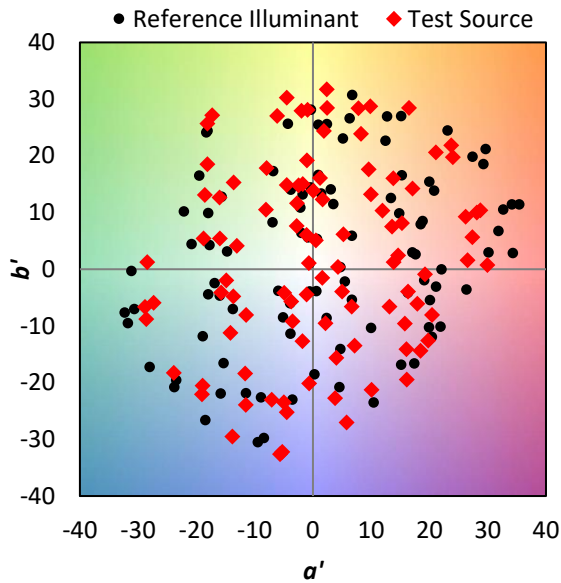
TM-30-18

Summary

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



Color Vector Graphics

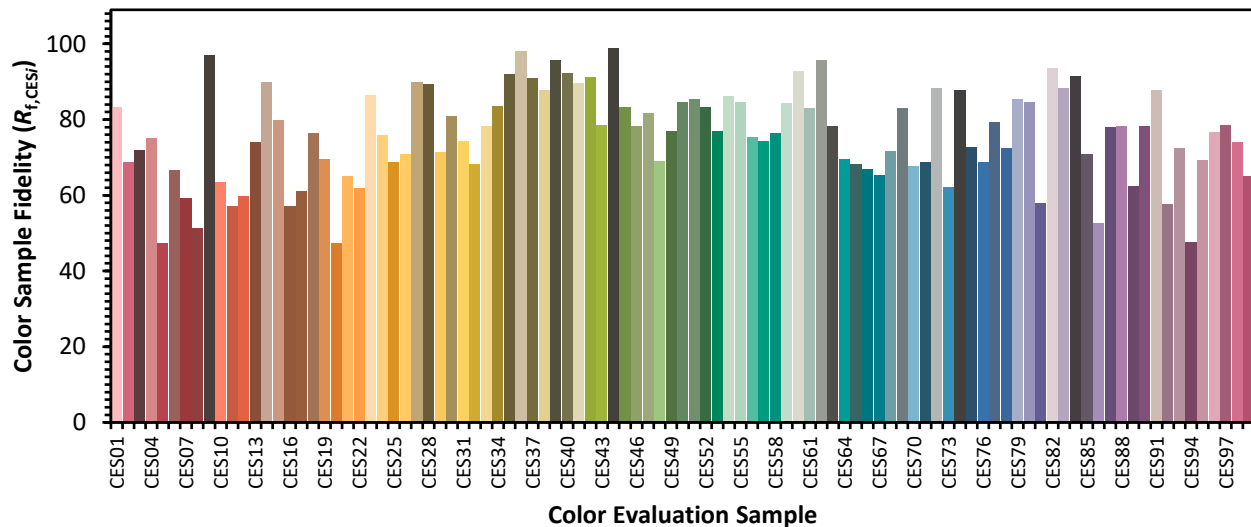


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TM-30-18

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

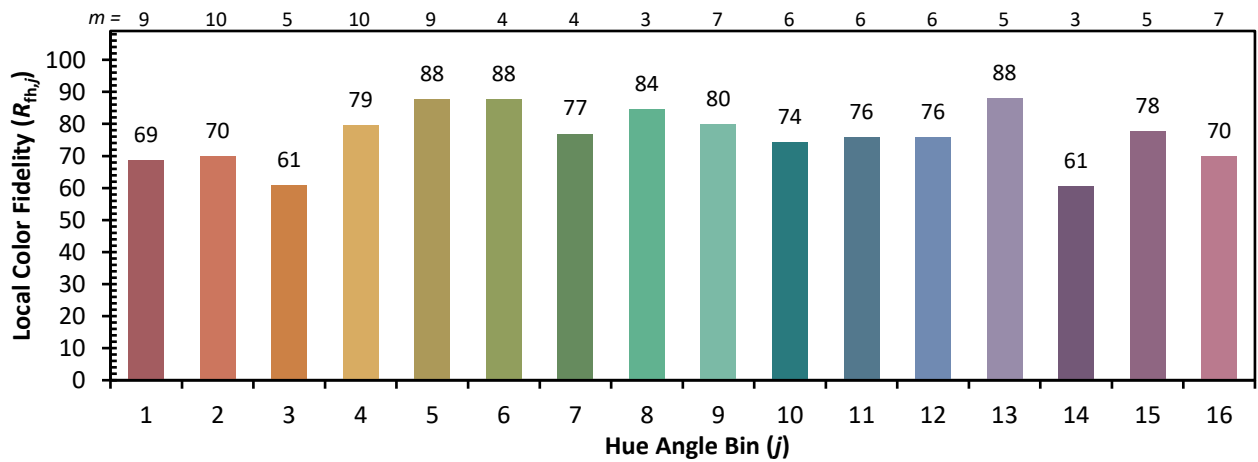
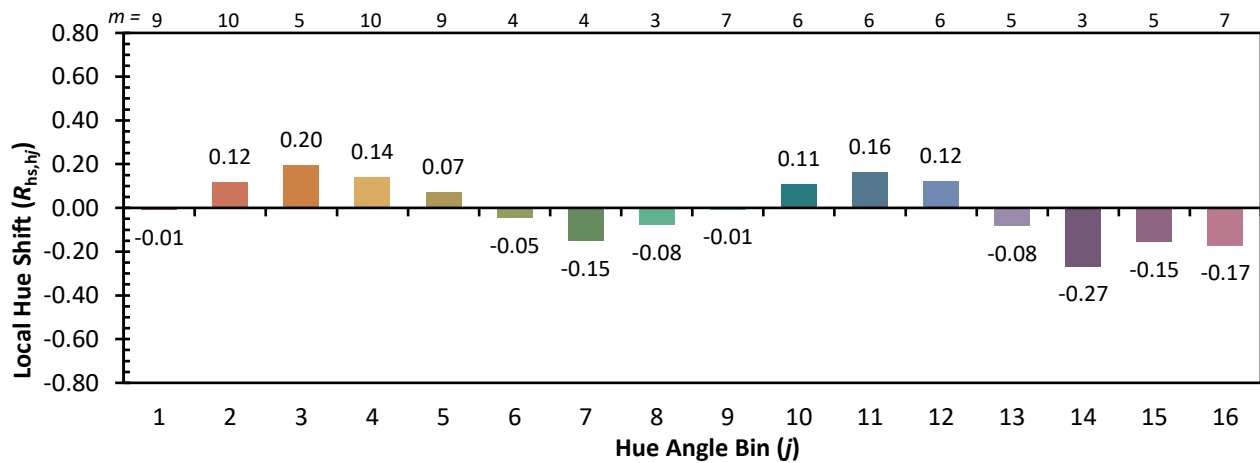
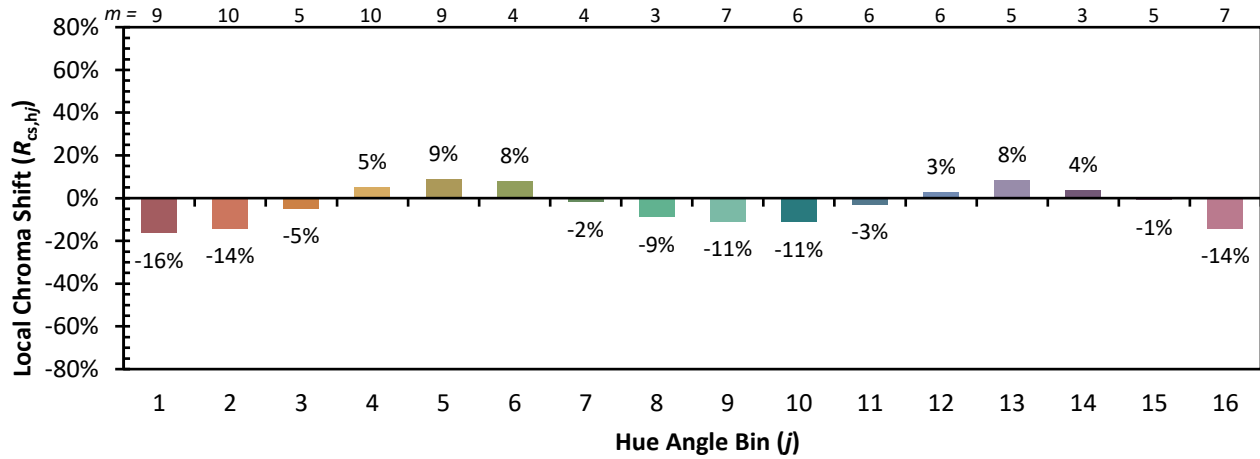
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 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	



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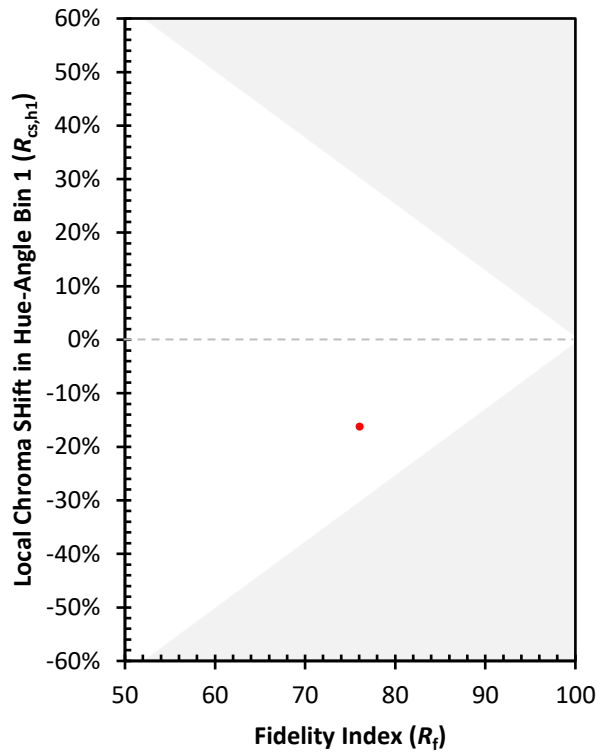
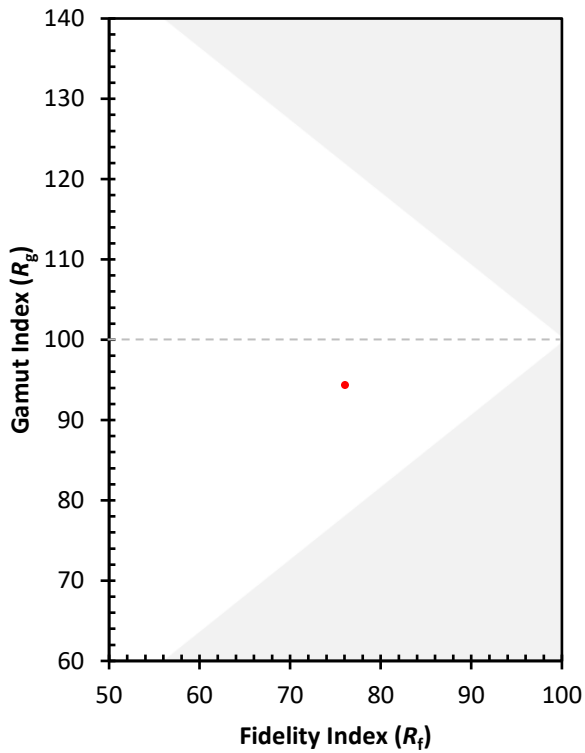
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)