

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: P856101

Luminaire Tested: **FFX-CLB-100-722-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856101
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-100-722-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

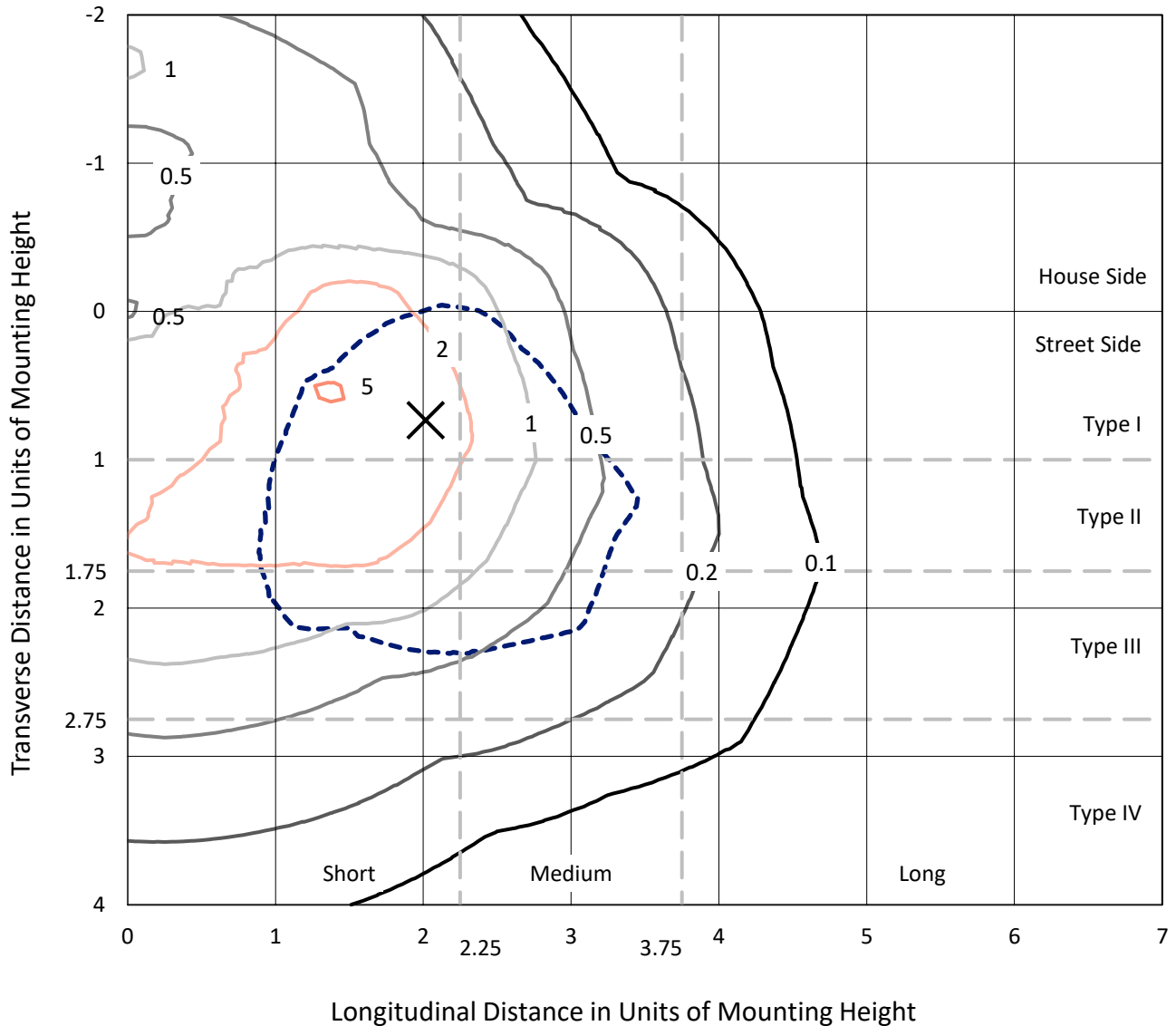
Lumens per Lamp: N/A
Luminaire Lumens: 12742.9 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 96.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2%%
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

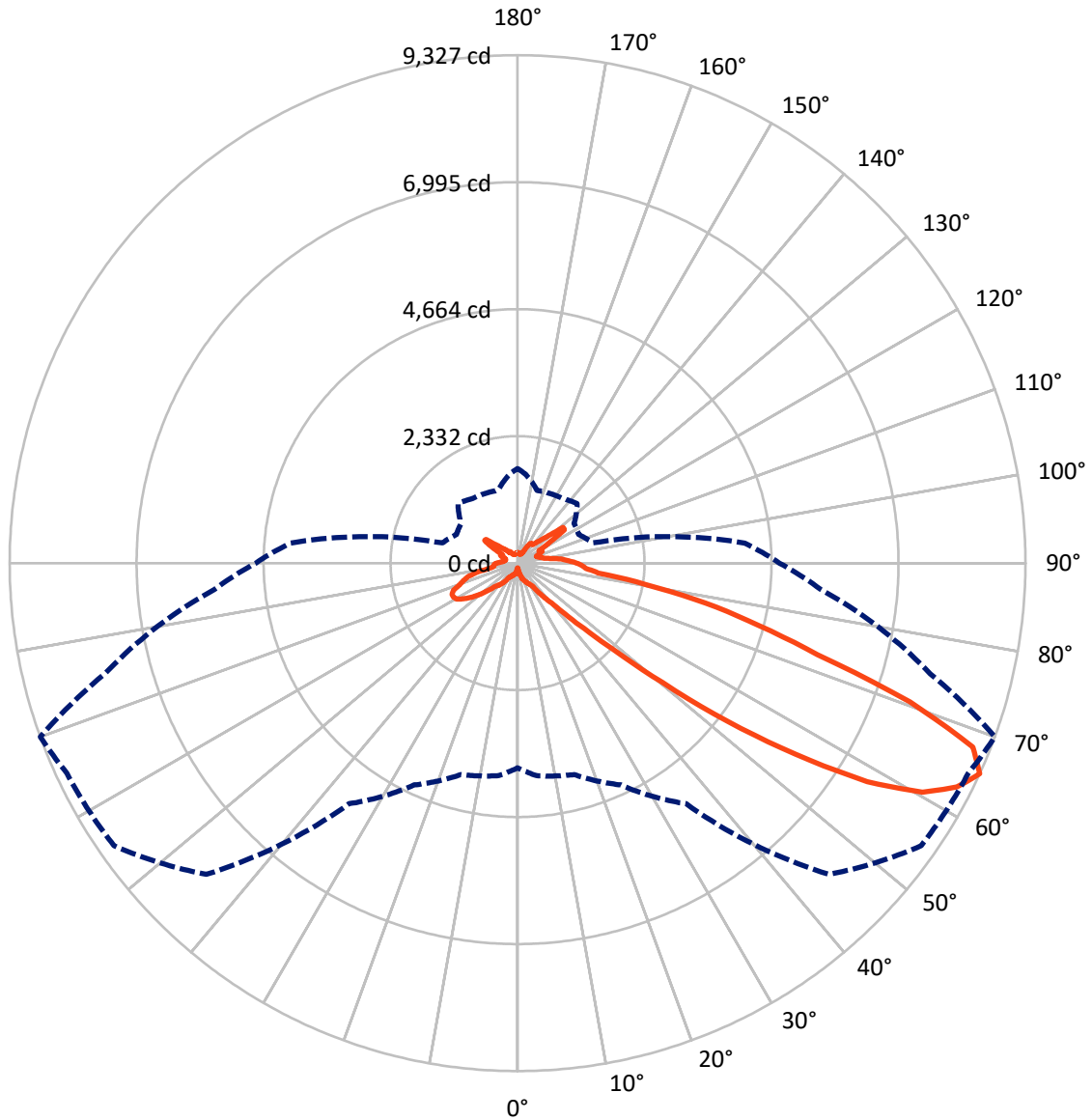
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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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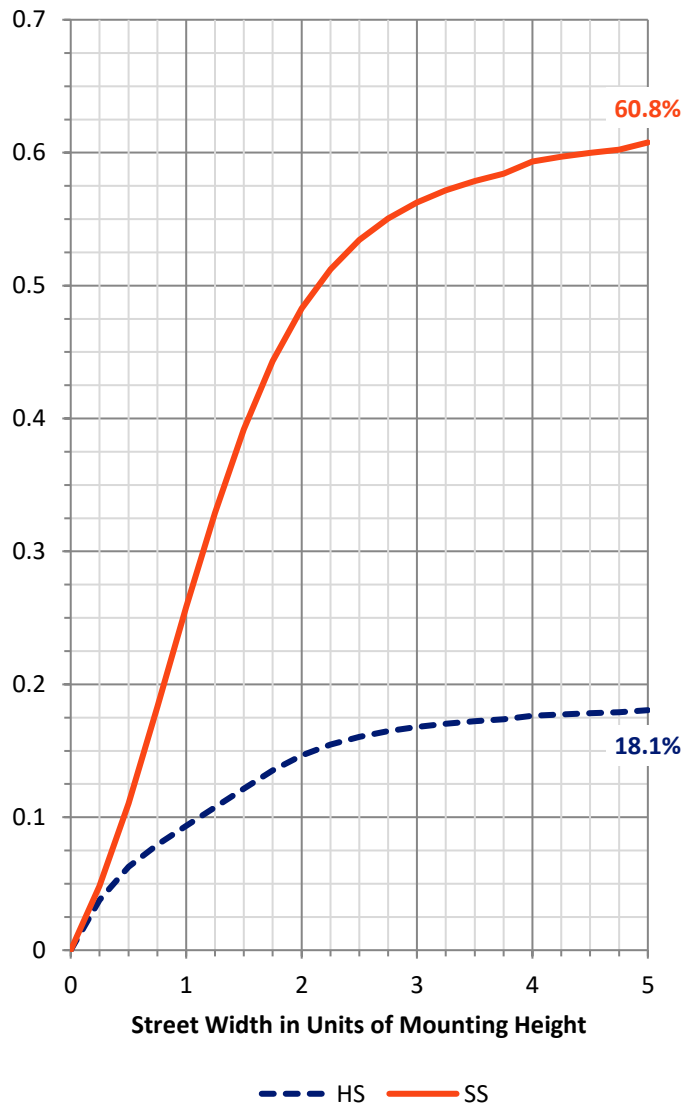
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2400.4	856.3	3256.7
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	8004.4	1481.8	9486.2
	% Fixture	62.8	11.6	74.4
Total	Lumens	10404.8	2338.1	12742.9
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.1
10°-20°	66.8	0.5
20°-30°	141.7	1.1
30°-40°	288.6	2.3
40°-50°	733.8	5.8
50°-60°	2358.3	18.5
60°-70°	3848.7	30.2
70°-80°	2191.0	17.2
80°-90°	762.4	6.0
90°-100°	474.4	3.7
100°-110°	302.1	2.4
110°-120°	332.4	2.6
120°-130°	562.2	4.4
130°-140°	331.4	2.6
140°-150°	178.4	1.4
150°-160°	90.2	0.7
160°-170°	49.3	0.4
170°-180°	17.8	0.1
0°-90°	10404.8	81.7
0°-180°	12742.9	100.0

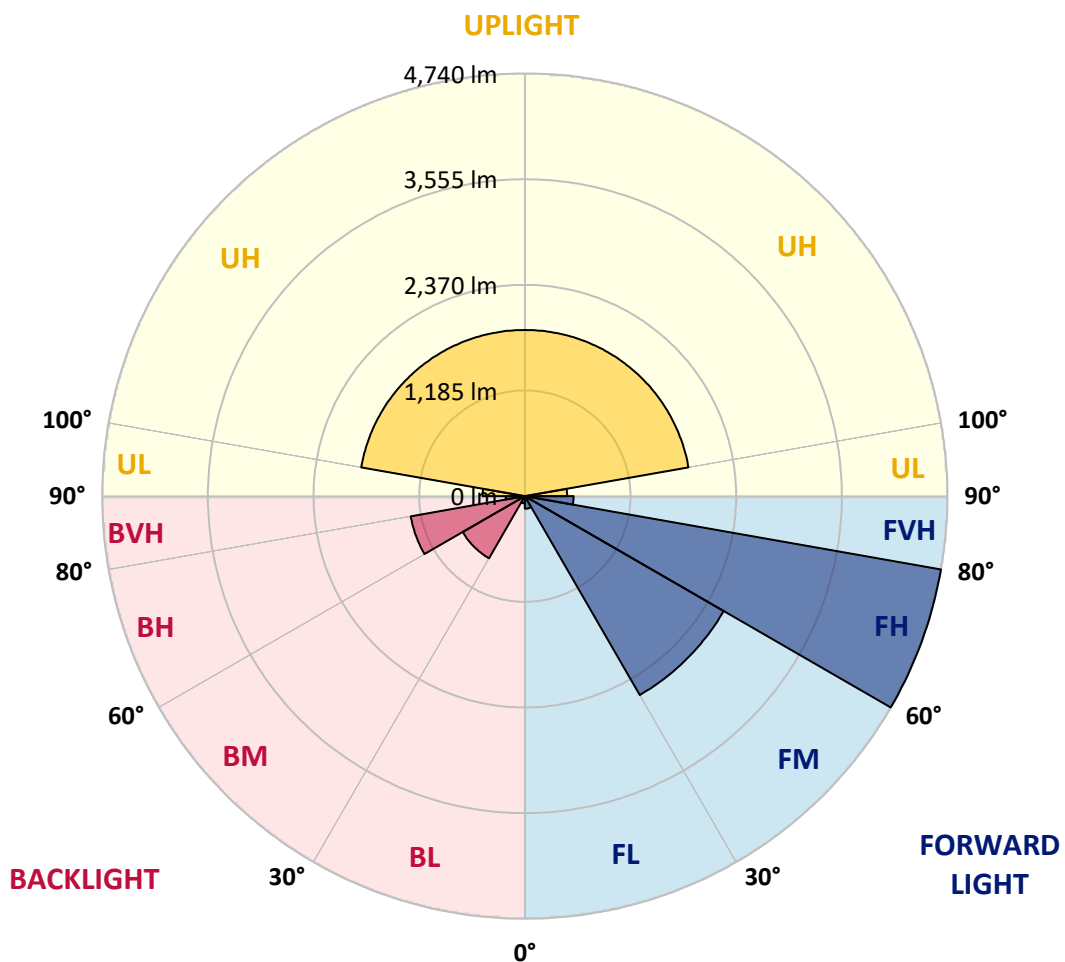


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	141.4	1.1			
FM (30°-60°)	2576.1	20.2			
FH (60°-80°)	4740.2	37.2			G2/5000
FVH (80°-90°)	546.6	4.3			G4/750
BL (0°-30°)	80.6	0.6	B0/110		
BM (30°-60°)	804.5	6.3	B1/1000		
BH (60°-80°)	1299.5	10.2	B3/2500		G3/2500
BVH (80°-90°)	215.7	1.7			G2/225
UL (90°-100°)	474.4	3.7		U3/500	
UH (100°-180°)	1863.7	14.6		U5	

BUG Rating: B3-U5-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
2.5°	101.1	101.1	103.7	103.7	103.7	101.1	99.8	97.2	97.2	97.2	95.9
5°	131.3	130.0	131.3	135.3	136.6	132.6	130.0	126.1	126.1	124.7	124.7
7.5°	177.3	176.0	173.3	169.4	170.7	174.6	179.9	169.4	166.8	160.2	157.6
10°	221.9	219.3	221.9	215.4	208.8	199.6	204.9	202.2	197.0	190.4	185.2
12.5°	270.5	271.8	277.1	271.8	261.3	246.9	244.2	237.7	232.4	231.1	223.2
15°	320.4	321.7	327.0	325.7	315.2	295.5	287.6	281.0	278.4	270.5	253.4
17.5°	346.7	348.0	349.3	350.6	344.0	328.3	316.5	304.7	300.7	298.1	277.1
20°	359.8	357.2	359.8	365.1	370.3	357.2	345.4	338.8	334.9	325.7	298.1
22.5°	380.8	378.2	376.9	380.8	396.6	387.4	375.6	369.0	365.1	353.2	311.2
25°	403.1	400.5	404.5	401.8	421.5	417.6	405.8	399.2	393.9	379.5	330.9
27.5°	428.1	425.5	429.4	426.8	442.5	445.2	437.3	432.0	424.1	403.1	345.4
30°	449.1	446.5	450.4	449.1	464.9	474.0	470.1	468.8	457.0	432.0	370.3
32.5°	466.2	464.9	474.0	478.0	481.9	502.9	500.3	512.1	499.0	468.8	407.1
35°	505.6	509.5	534.5	560.7	564.7	606.7	611.9	655.3	642.1	602.7	527.9
37.5°	781.3	766.9	741.9	717.0	707.8	789.2	801.0	844.4	811.5	738.0	617.2
40°	832.5	808.9	780.0	760.3	762.9	908.7	883.8	1047.9	954.7	844.4	753.7
42.5°	790.5	782.6	883.8	931.0	896.9	1109.6	1067.6	1380.1	1273.8	1003.2	910.0
45°	991.4	975.7	1011.1	1058.4	1068.9	1460.2	1431.3	1758.3	1715.0	1254.1	1167.4
47.5°	1134.6	1120.1	1167.4	1327.6	1465.5	1888.3	2045.9	2517.3	2365.0	1781.9	1581.0
50°	1564.0	1561.3	1707.1	1897.5	2139.1	2747.1	3166.0	3695.2	3449.6	2522.6	2168.0
52.5°	1988.1	1993.4	2172.0	2509.4	2760.2	3834.4	4429.3	4799.6	4832.4	3289.4	2810.1
55°	2308.5	2341.3	2556.7	3122.7	3502.2	4802.2	5574.3	5861.9	6190.2	4445.0	3478.5
57.5°	2933.6	2983.5	3188.3	3742.5	4273.0	6007.7	7050.3	7081.8	7571.6	5726.7	4195.5
60°	3479.9	3596.7	3668.9	4171.9	4895.4	7159.3	8146.8	8083.8	8543.4	6789.0	4923.0
62.5°	3649.2	3783.2	3851.5	4387.2	5387.9	7805.4	8658.9	8737.7	9054.2	7534.9	5368.2
65°	3759.6	3917.1	4019.6	4493.6	5393.1	8081.1	9047.6	9131.7	9327.3	7847.4	5590.1
67.5°	3703.1	3904.0	4035.3	4456.8	5109.5	7868.4	8970.1	8808.6	9016.1	7586.1	5341.9
70°	3233.0	3443.1	3575.7	3889.6	4271.7	6615.7	7733.1	7462.6	7645.2	6332.0	4392.5
72.5°	2634.2	2737.9	2819.3	2991.4	3219.8	4879.7	5876.4	5651.8	5760.8	4764.1	3292.1
75°	2164.1	2195.6	2296.7	2395.2	2433.3	3569.1	4655.1	4450.3	4577.6	3626.9	2619.7
77.5°	1571.8	1590.2	1734.7	1750.4	1741.2	2449.0	3668.9	3489.0	3529.8	2695.9	1955.3
80°	912.6	948.1	1137.2	1128.0	1112.2	1508.8	2583.0	2510.7	2384.7	1830.5	1353.9
82.5°	643.4	678.9	765.6	785.3	774.8	1083.3	1676.9	1629.6	1493.1	1273.8	936.3
85°	677.6	681.5	685.5	694.7	677.6	966.5	1284.3	1260.6	1261.9	1053.1	772.1
87.5°	668.4	684.2	690.7	694.7	677.6	917.9	1193.7	1163.5	1177.9	1000.6	749.8
90°	587.0	615.9	618.5	625.1	615.9	819.4	1071.5	1042.6	1061.0	902.1	682.8
92.5°	479.3	495.1	513.4	538.4	527.9	701.2	911.3	890.3	912.6	781.3	600.1
95°	454.4	471.4	483.2	500.3	484.6	639.5	823.3	781.3	799.7	684.2	517.4
97.5°	375.6	390.0	400.5	407.1	395.3	504.3	631.6	602.7	601.4	529.2	413.6
100°	320.4	329.6	338.8	345.4	334.9	417.6	500.3	489.8	492.4	437.3	355.9
102.5°	304.7	309.9	324.3	325.7	313.8	380.8	450.4	446.5	451.7	404.5	333.5
105°	298.1	302.0	313.8	309.9	299.4	355.9	415.0	417.6	417.6	376.9	312.5
107.5°	278.4	285.0	298.1	291.5	286.3	328.3	382.1	372.9	375.6	350.6	296.8
110°	275.8	281.0	294.1	288.9	285.0	320.4	367.7	365.1	369.0	346.7	304.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	342.7	337.5	348.0	337.5	344.0	374.2	424.1	418.9	430.7	422.8	380.8
115°	422.8	425.5	436.0	415.0	421.5	451.7	479.3	488.5	499.0	487.2	443.8
117.5°	391.3	413.6	400.5	397.9	392.6	416.3	412.3	436.0	446.5	437.3	420.2
120°	418.9	446.5	408.4	388.7	380.8	439.9	468.8	467.5	459.6	441.2	405.8
122.5°	626.4	630.3	632.9	692.0	671.0	728.8	745.9	723.5	723.5	747.2	675.0
125°	977.0	980.9	978.3	1004.6	990.1	1045.3	1067.6	1066.3	1053.1	1041.3	970.4
127.5°	987.5	987.5	978.3	963.9	977.0	1030.8	1032.1	1082.0	1065.0	1033.5	967.8
130°	689.4	694.7	727.5	738.0	756.4	768.2	755.1	798.4	806.3	801.0	756.4
132.5°	571.2	580.4	615.9	629.0	640.8	642.1	636.9	671.0	678.9	678.9	659.2
135°	493.7	504.3	508.2	501.6	518.7	531.8	542.3	569.9	567.3	562.0	545.0
137.5°	430.7	434.7	422.8	408.4	417.6	455.7	476.7	505.6	504.3	495.1	466.2
140°	363.7	365.1	358.5	351.9	361.1	393.9	413.6	445.2	441.2	434.7	400.5
142.5°	275.8	279.7	296.8	309.9	332.2	400.5	390.0	417.6	437.3	453.0	374.2
145°	290.2	285.0	282.3	296.8	325.7	424.1	393.9	429.4	438.6	449.1	358.5
147.5°	334.9	337.5	333.5	324.3	363.7	395.3	378.2	409.7	415.0	412.3	375.6
150°	262.6	266.6	267.9	263.9	312.5	311.2	294.1	317.8	320.4	320.4	295.5
152.5°	214.0	215.4	212.7	210.1	241.6	236.4	228.5	236.4	235.1	233.7	228.5
155°	203.5	203.5	200.9	202.2	223.2	218.0	212.7	218.0	215.4	211.4	206.2
157.5°	187.8	189.1	189.1	193.0	206.2	197.0	191.7	194.3	191.7	189.1	189.1
160°	177.3	177.3	178.6	183.8	191.7	182.5	178.6	179.9	178.6	176.0	177.3
162.5°	173.3	173.3	174.6	177.3	178.6	173.3	169.4	169.4	169.4	169.4	173.3
165°	170.7	170.7	170.7	172.0	172.0	168.1	166.8	168.1	169.4	170.7	176.0
167.5°	176.0	176.0	176.0	176.0	174.6	172.0	170.7	172.0	173.3	174.6	178.6
170°	183.8	182.5	182.5	181.2	179.9	177.3	176.0	174.6	174.6	176.0	177.3
172.5°	189.1	189.1	187.8	187.8	186.5	183.8	181.2	179.9	179.9	179.9	179.9
175°	195.7	195.7	195.7	195.7	194.3	191.7	190.4	187.8	187.8	187.8	187.8
177.5°	203.5	203.5	203.5	203.5	200.9	198.3	195.7	193.0	193.0	193.0	191.7
180°	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
2.5°	94.5	93.2	89.3	88.0	86.7	84.0	81.4	80.1	78.8	78.8	80.1
5°	126.1	124.7	124.7	120.8	116.9	110.3	107.7	107.7	109.0	110.3	112.9
7.5°	158.9	161.5	164.1	157.6	145.8	130.0	120.8	123.4	130.0	135.3	135.3
10°	183.8	183.8	193.0	185.2	165.5	145.8	132.6	130.0	131.3	132.6	133.9
12.5°	219.3	219.3	214.0	193.0	173.3	153.6	143.1	140.5	140.5	135.3	133.9
15°	245.6	237.7	219.3	199.6	182.5	162.8	151.0	147.1	143.1	139.2	137.9
17.5°	261.3	246.9	221.9	203.5	186.5	170.7	158.9	151.0	147.1	148.4	148.4
20°	279.7	263.9	241.6	221.9	200.9	179.9	165.5	153.6	149.7	151.0	149.7
22.5°	294.1	278.4	256.1	233.7	211.4	189.1	172.0	157.6	152.3	153.6	153.6
25°	311.2	298.1	274.4	248.2	220.6	199.6	182.5	165.5	157.6	156.3	156.3
27.5°	328.3	319.1	294.1	262.6	233.7	208.8	191.7	172.0	162.8	158.9	158.9
30°	350.6	340.1	315.2	277.1	245.6	221.9	203.5	182.5	169.4	162.8	161.5
32.5°	386.1	374.2	344.0	303.3	258.7	235.1	215.4	191.7	174.6	166.8	165.5
35°	501.6	483.2	436.0	388.7	316.5	262.6	229.8	199.6	179.9	169.4	168.1
37.5°	573.8	529.2	466.2	434.7	355.9	321.7	277.1	228.5	187.8	174.6	172.0
40°	690.7	629.0	550.2	488.5	346.7	351.9	324.3	285.0	223.2	183.8	179.9
42.5°	789.2	711.7	592.2	512.1	348.0	367.7	346.7	313.8	267.9	218.0	210.1
45°	973.0	873.2	688.1	550.2	357.2	391.3	365.1	330.9	290.2	256.1	252.1
47.5°	1314.5	1179.2	860.1	613.2	417.6	454.4	407.1	362.4	325.7	286.3	279.7
50°	1799.0	1637.5	1058.4	663.1	521.3	598.8	513.4	438.6	396.6	367.7	363.7
52.5°	2357.1	2187.7	1204.2	755.1	647.4	777.4	678.9	592.2	537.1	537.1	545.0
55°	3005.8	2836.4	1321.0	882.4	802.3	974.4	868.0	797.1	770.8	882.4	912.6
57.5°	3649.2	3433.9	1399.8	1012.4	983.6	1205.5	1078.1	1017.7	1066.3	1397.2	1499.6
60°	4236.2	3880.4	1461.5	1135.9	1138.5	1389.3	1294.8	1290.8	1365.7	1788.5	1918.5
62.5°	4575.0	4090.5	1457.6	1206.8	1229.1	1503.6	1424.8	1445.8	1487.8	1854.2	1952.7
65°	4807.4	4190.3	1427.4	1238.3	1267.2	1544.3	1445.8	1410.3	1382.7	1641.4	1736.0
67.5°	4647.2	3956.5	1359.1	1192.3	1243.6	1485.2	1355.2	1254.1	1200.2	1331.5	1395.9
70°	3892.2	3299.9	1202.8	1072.8	1120.1	1251.4	1126.7	1026.9	970.4	1041.3	1071.5
72.5°	2948.0	2510.7	1084.7	1003.2	982.2	1034.8	916.6	805.0	770.8	816.8	823.3
75°	2347.9	1964.5	998.0	907.4	824.7	875.9	731.4	596.2	576.5	576.5	566.0
77.5°	1760.9	1456.3	850.9	706.5	608.0	692.0	545.0	415.0	388.7	383.4	369.0
80°	1180.5	991.4	572.5	468.8	437.3	513.4	387.4	304.7	306.0	304.7	287.6
82.5°	824.7	765.6	464.9	408.4	374.2	404.5	350.6	292.8	290.2	292.8	274.4
85°	731.4	701.2	450.4	421.5	386.1	390.0	336.2	277.1	278.4	283.6	267.9
87.5°	702.5	668.4	451.7	407.1	376.9	361.1	304.7	256.1	263.9	269.2	256.1
90°	632.9	598.8	415.0	367.7	336.2	313.8	269.2	242.9	253.4	258.7	246.9
92.5°	548.9	513.4	345.4	324.3	316.5	316.5	282.3	258.7	265.3	267.9	257.4
95°	472.7	438.6	307.3	285.0	278.4	279.7	252.1	232.4	236.4	235.1	227.2
97.5°	382.1	361.1	267.9	253.4	246.9	244.2	225.9	211.4	219.3	224.5	218.0
100°	337.5	327.0	258.7	248.2	239.0	237.7	221.9	212.7	219.3	227.2	221.9
102.5°	315.2	307.3	246.9	232.4	225.9	223.2	212.7	202.2	208.8	216.7	212.7
105°	296.8	285.0	236.4	223.2	214.0	212.7	202.2	189.1	193.0	203.5	200.9
107.5°	281.0	273.1	235.1	220.6	208.8	208.8	197.0	186.5	187.8	191.7	191.7
110°	294.1	285.0	244.2	233.7	218.0	212.7	210.1	202.2	195.7	193.0	193.0



REPORT NUMBER: P856101
 CATALOG NUMBER: FFX-CLB-100-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	363.7	346.7	306.0	294.1	267.9	249.5	232.4	216.7	206.2	202.2	199.6
115°	429.4	409.7	361.1	330.9	295.5	267.9	244.2	227.2	211.4	206.2	211.4
117.5°	442.5	390.0	315.2	290.2	269.2	252.1	239.0	225.9	214.0	218.0	214.0
120°	438.6	374.2	317.8	353.2	317.8	278.4	246.9	246.9	242.9	223.2	227.2
122.5°	675.0	630.3	562.0	541.0	441.2	403.1	344.0	294.1	245.6	218.0	204.9
125°	924.5	881.1	776.1	696.0	596.2	491.1	376.9	290.2	227.2	200.9	204.9
127.5°	929.7	890.3	790.5	655.3	523.9	420.2	313.8	257.4	221.9	204.9	202.2
130°	724.9	686.8	601.4	497.7	415.0	346.7	282.3	232.4	200.9	187.8	183.8
132.5°	627.7	593.5	514.8	420.2	359.8	306.0	252.1	202.2	181.2	172.0	173.3
135°	527.9	487.2	412.3	361.1	323.0	274.4	225.9	185.2	174.6	172.0	170.7
137.5°	447.8	418.9	366.4	327.0	290.2	246.9	198.3	173.3	169.4	172.0	169.4
140°	380.8	357.2	328.3	294.1	249.5	208.8	177.3	165.5	172.0	173.3	172.0
142.5°	328.3	304.7	274.4	228.5	207.5	189.1	181.2	172.0	172.0	170.7	169.4
145°	274.4	242.9	228.5	235.1	221.9	203.5	189.1	170.7	164.1	164.1	165.5
147.5°	315.2	282.3	263.9	249.5	224.5	198.3	176.0	158.9	156.3	161.5	160.2
150°	271.8	241.6	228.5	208.8	193.0	173.3	158.9	152.3	153.6	160.2	160.2
152.5°	216.7	195.7	187.8	182.5	174.6	162.8	155.0	152.3	155.0	157.6	157.6
155°	203.5	191.7	182.5	178.6	169.4	160.2	153.6	152.3	155.0	157.6	160.2
157.5°	190.4	186.5	174.6	170.7	162.8	158.9	155.0	155.0	156.3	158.9	161.5
160°	181.2	179.9	169.4	168.1	162.8	160.2	160.2	161.5	162.8	162.8	162.8
162.5°	176.0	176.0	172.0	169.4	168.1	166.8	170.7	172.0	170.7	170.7	170.7
165°	177.3	178.6	174.6	172.0	170.7	173.3	179.9	179.9	177.3	176.0	174.6
167.5°	178.6	179.9	177.3	176.0	176.0	178.6	181.2	179.9	178.6	177.3	176.0
170°	177.3	178.6	178.6	179.9	179.9	179.9	182.5	182.5	179.9	178.6	178.6
172.5°	179.9	181.2	182.5	183.8	185.2	183.8	185.2	185.2	185.2	185.2	186.5
175°	187.8	187.8	189.1	189.1	187.8	189.1	189.1	189.1	190.4	193.0	193.0
177.5°	191.7	191.7	190.4	190.4	189.1	190.4	190.4	190.4	190.4	191.7	190.4
180°	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3

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.

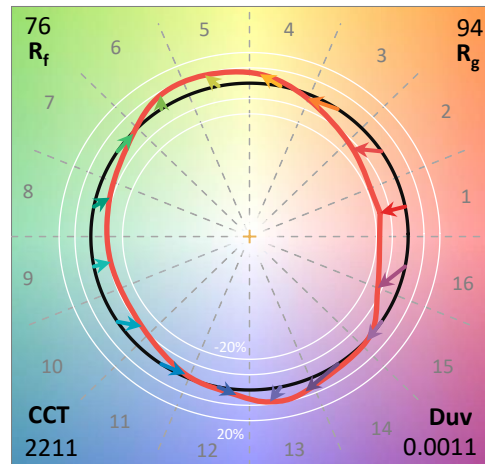
Test Information

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

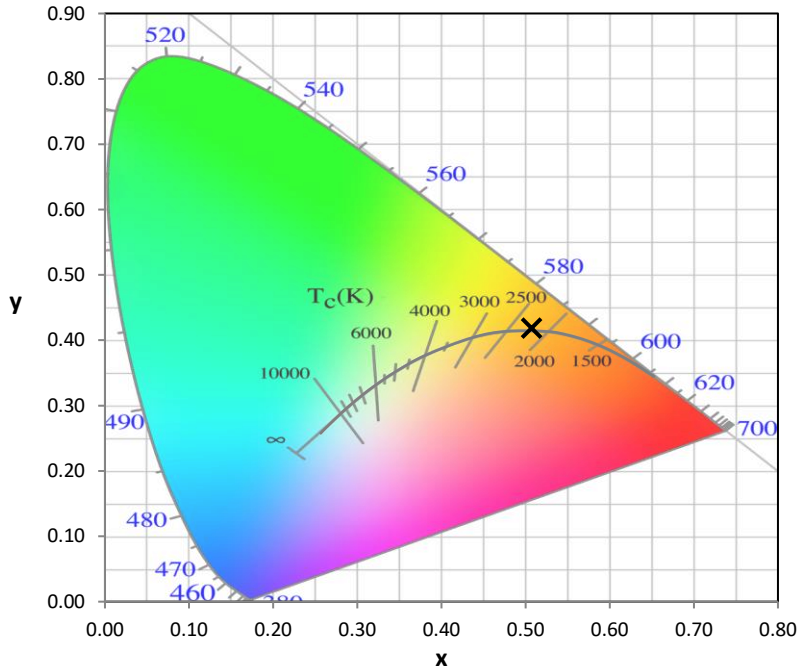
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

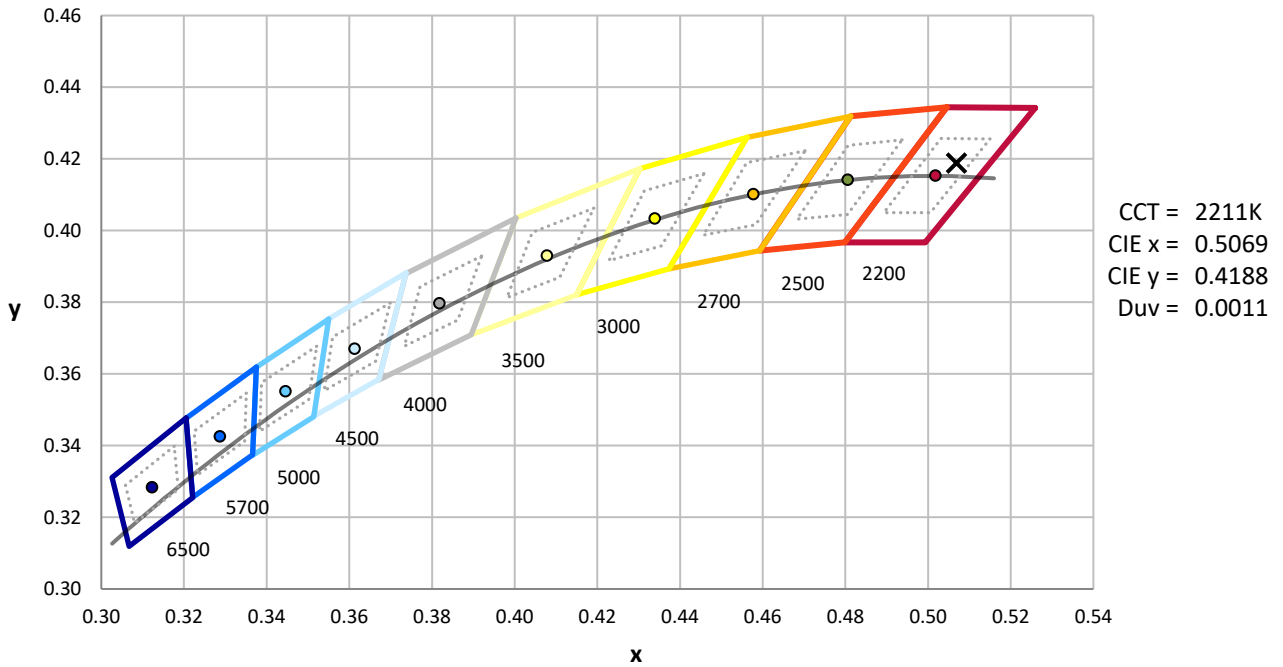
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



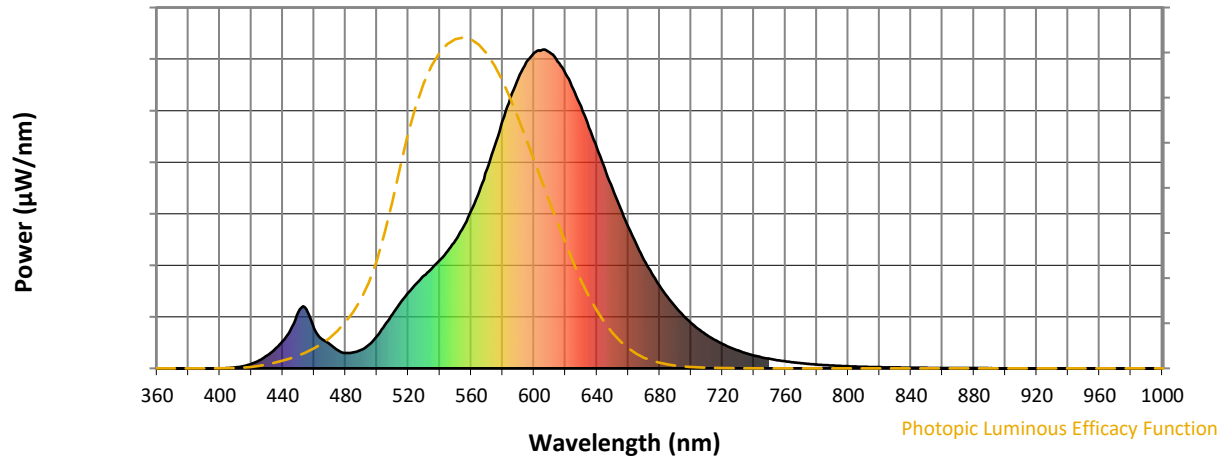
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

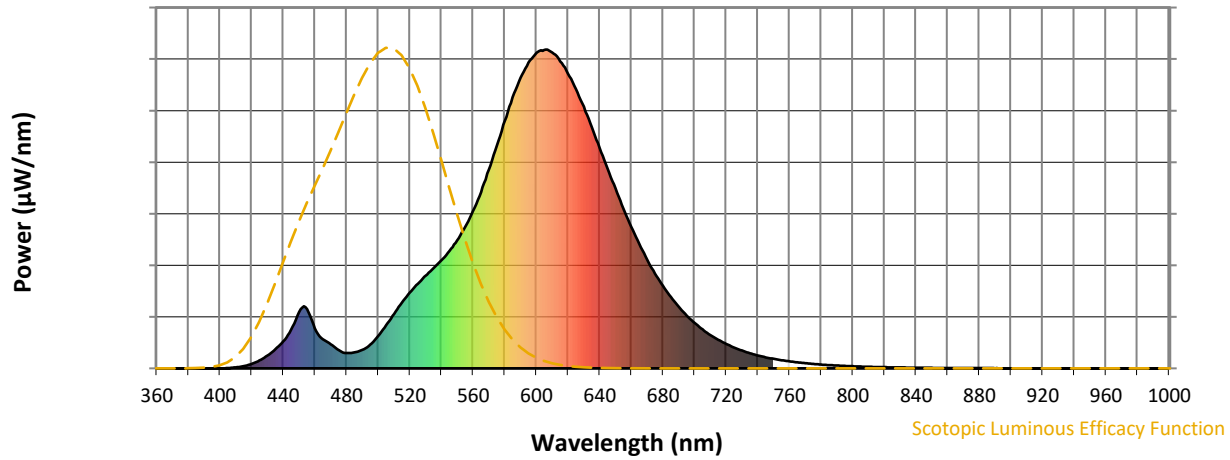


Photopic Lumens: NR

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	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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Scotopic Flux vs. Wavelength



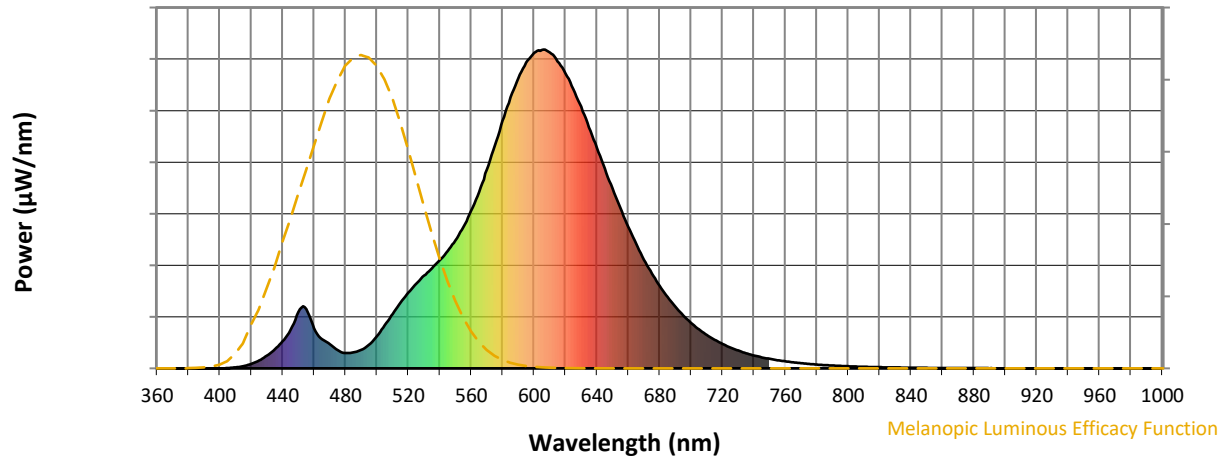
Scotopic Lumens: NR

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

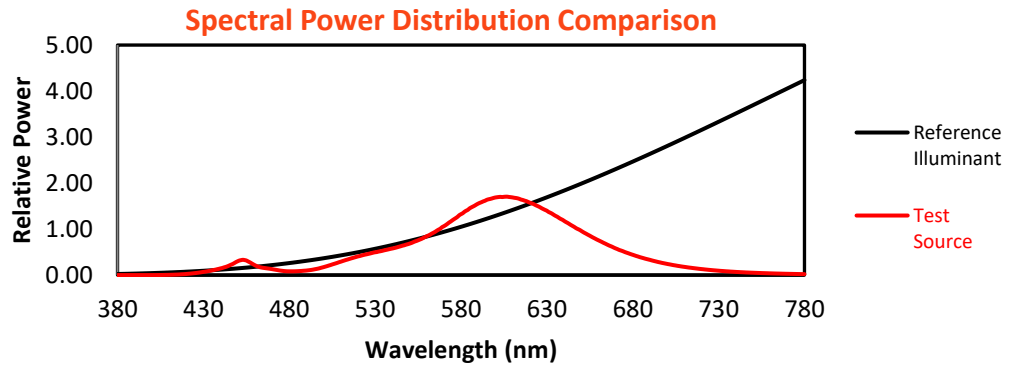
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR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

REPORT NUMBER: SP1-2406-133-2

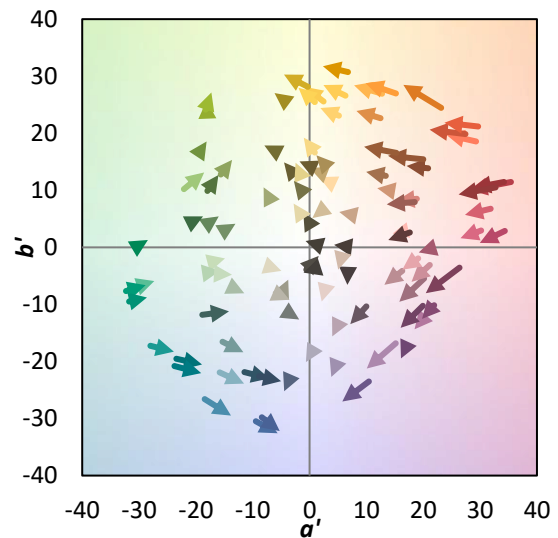
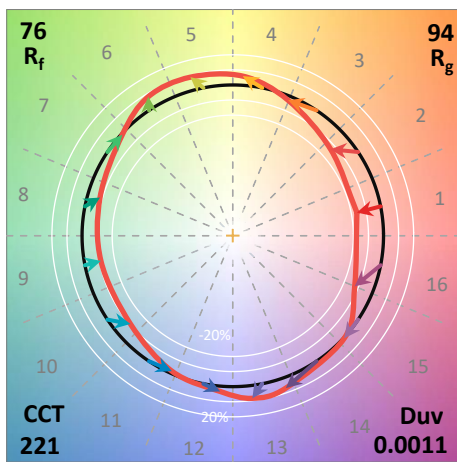
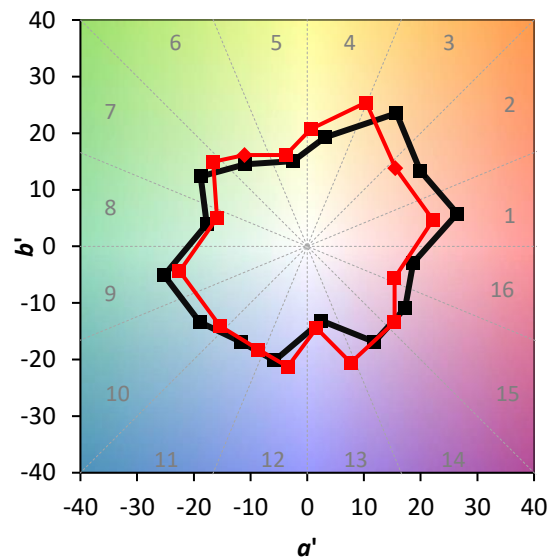
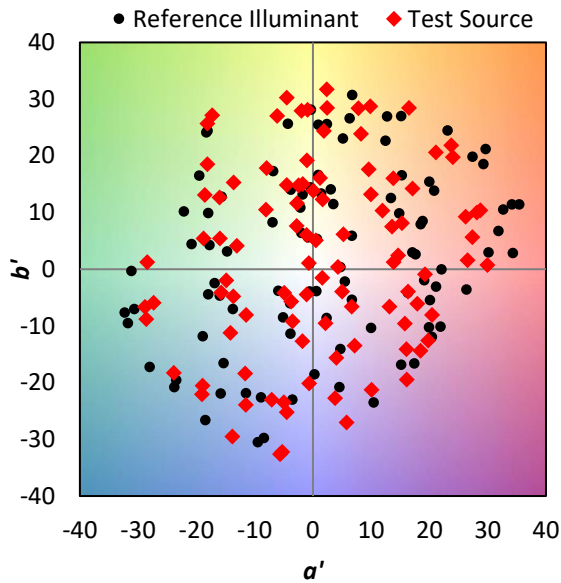
TM-30-18

Summary

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



Color Vector Graphics

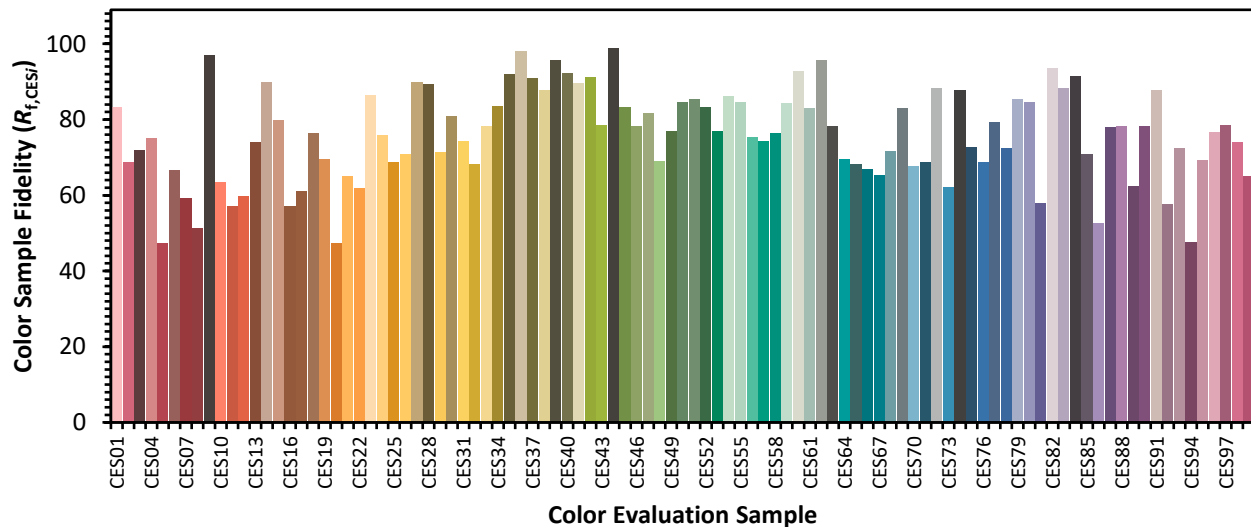


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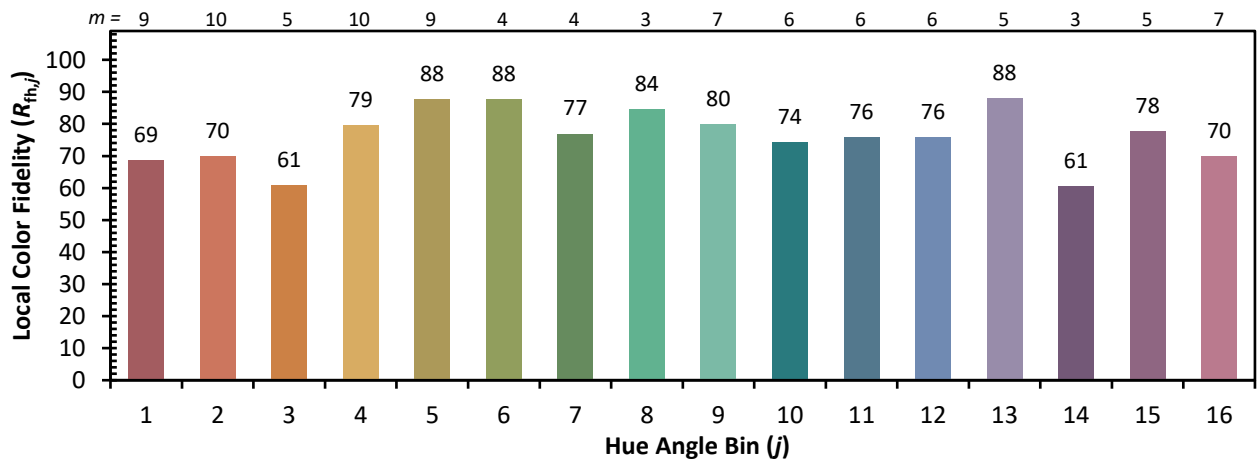
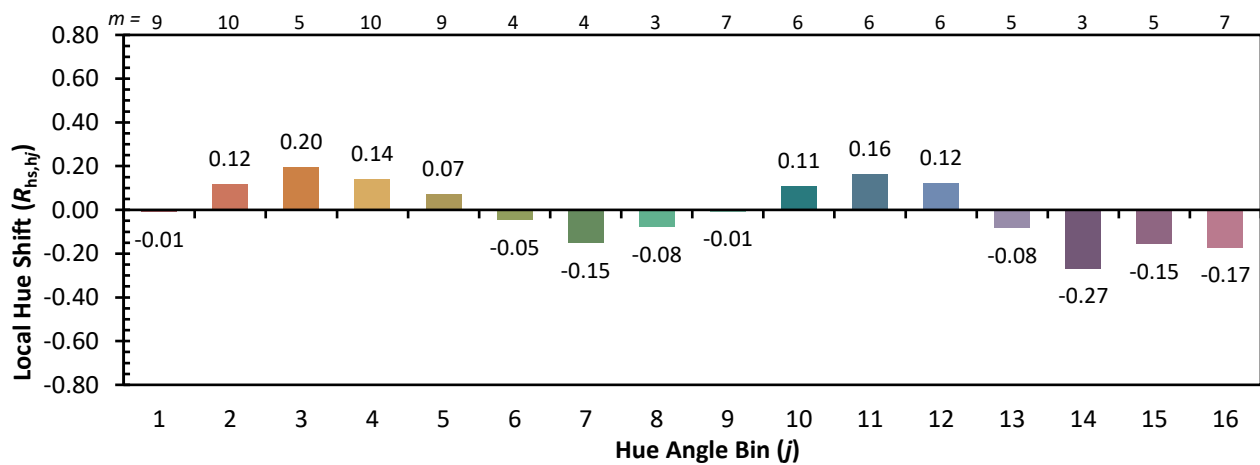
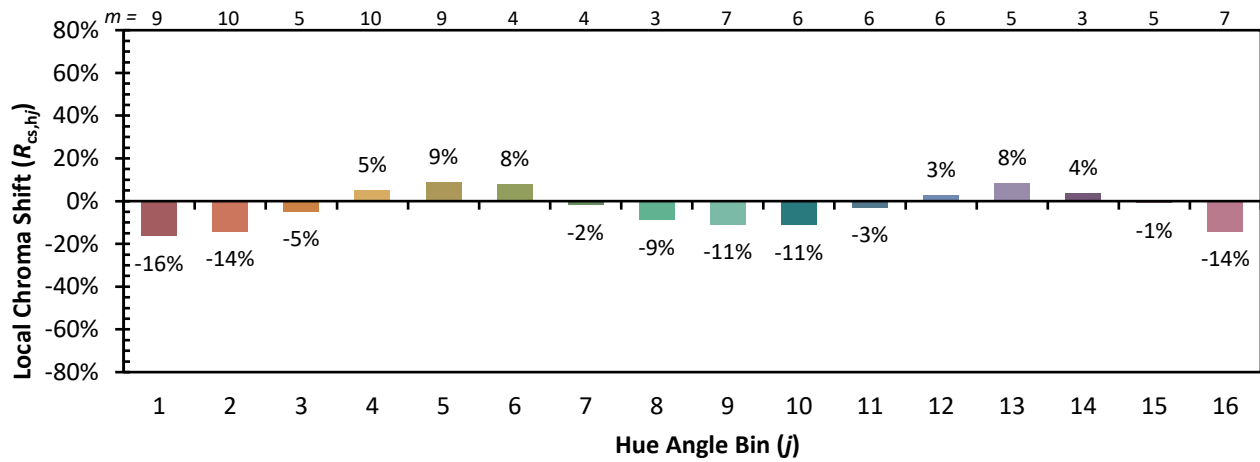
TM-30-18

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	



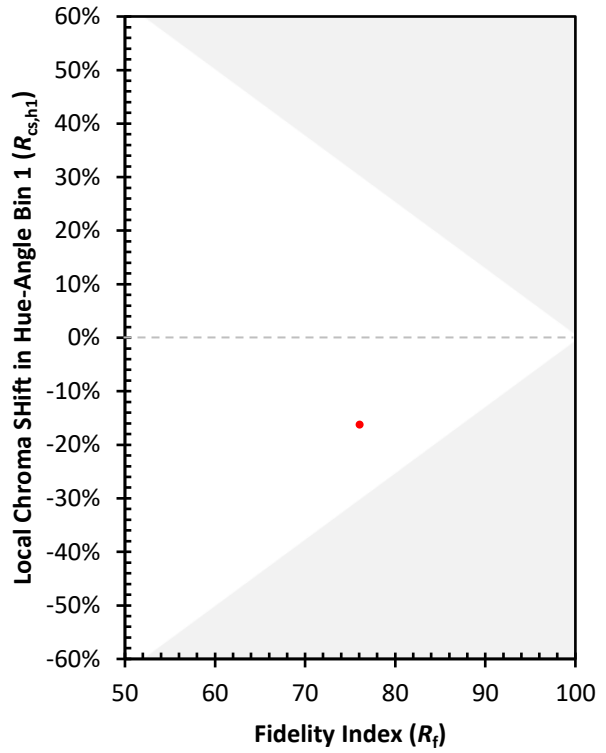
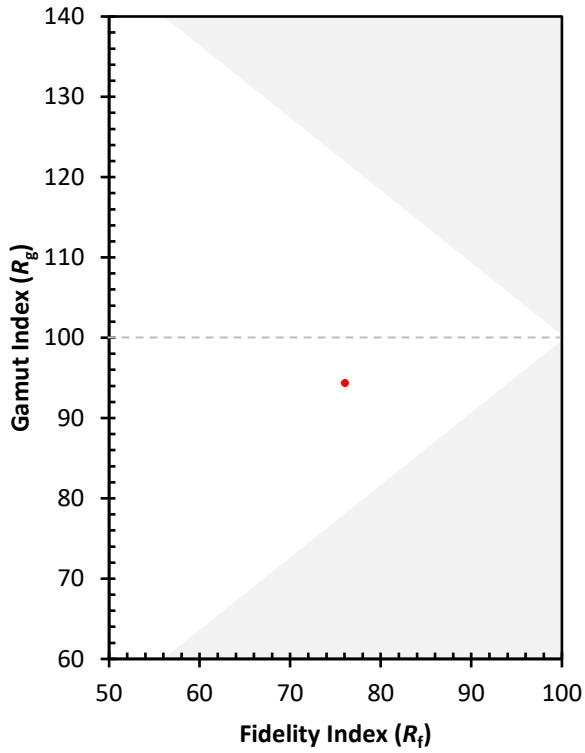
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)