

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: P856128

Luminaire Tested: **FFX-CLB-100-740-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856128
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-100-740-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

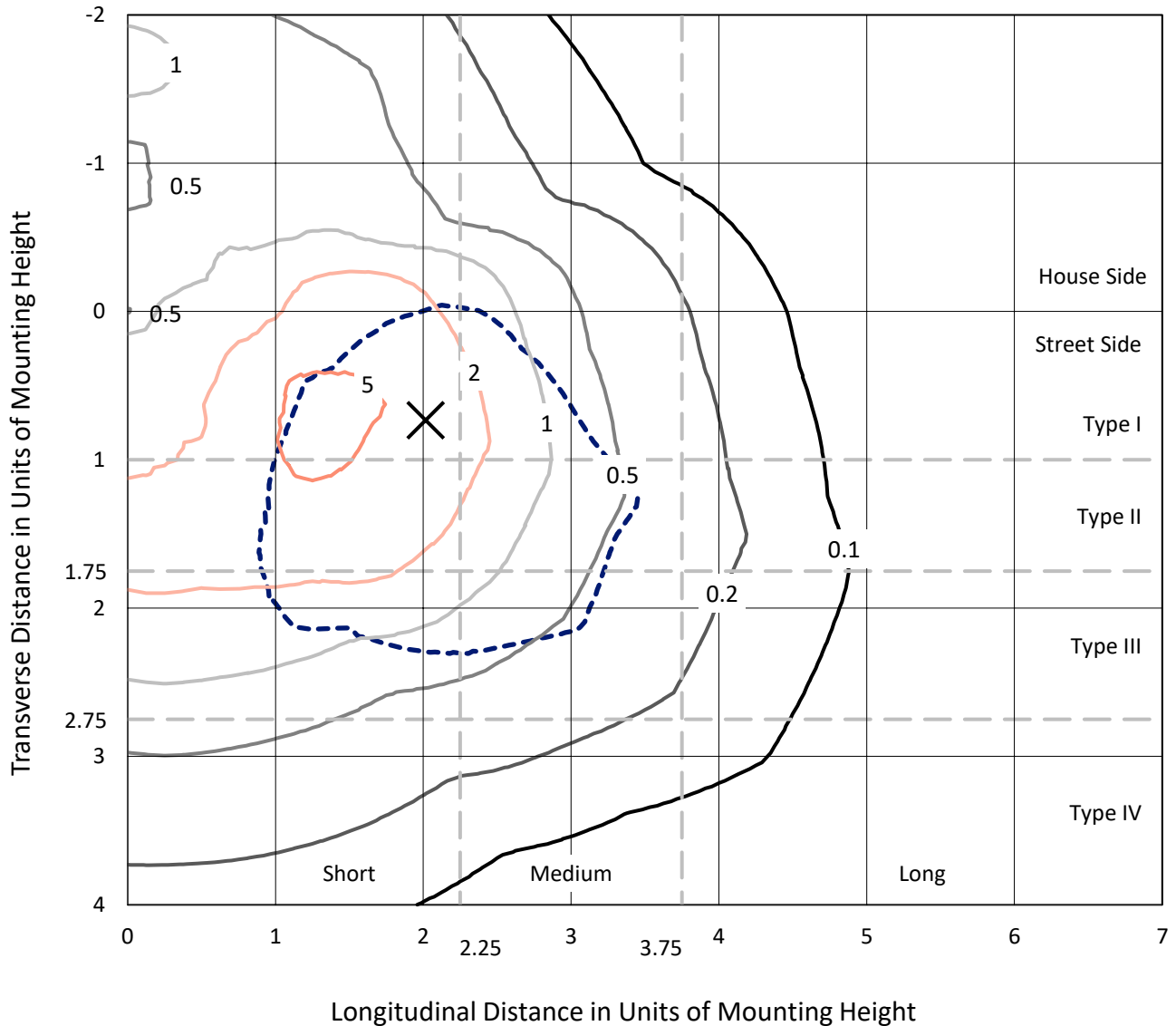
Lumens per Lamp: N/A
Luminaire Lumens: 15242.7 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

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

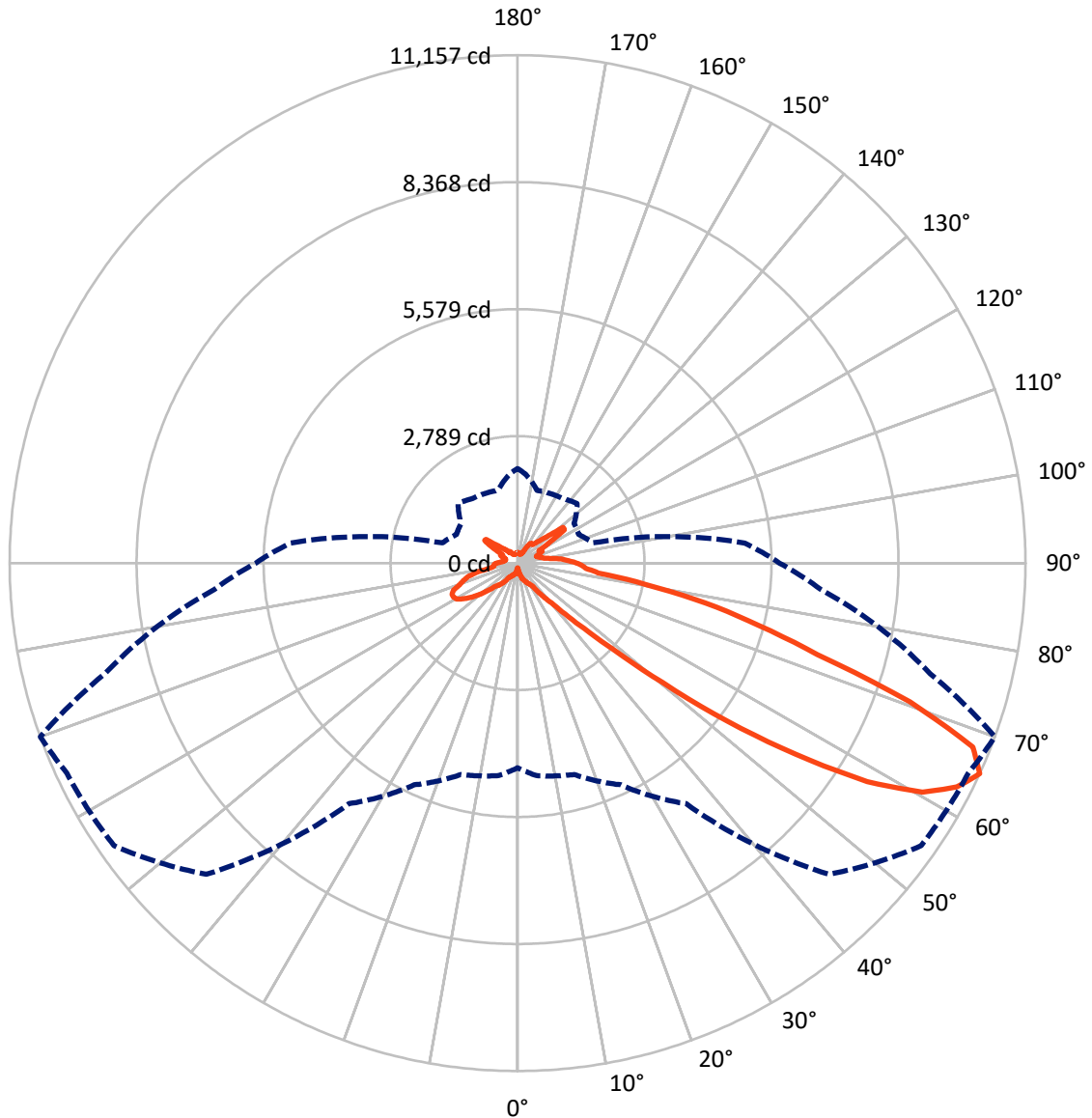
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 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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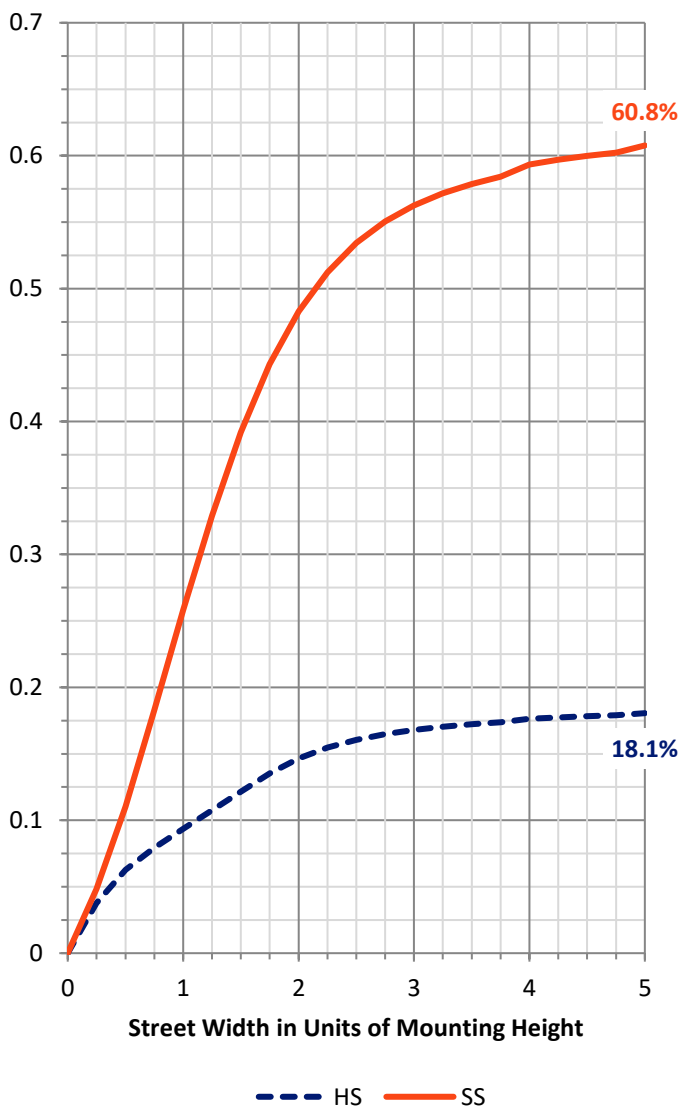
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2871.3	1024.3	3895.6
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	9574.6	1772.5	11347.1
	% Fixture	62.8	11.6	74.4
Total	Lumens	12445.9	2796.8	15242.7
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	0.1
10°-20°	79.8	0.5
20°-30°	169.5	1.1
30°-40°	345.2	2.3
40°-50°	877.7	5.8
50°-60°	2820.9	18.5
60°-70°	4603.6	30.2
70°-80°	2620.8	17.2
80°-90°	911.9	6.0
90°-100°	567.5	3.7
100°-110°	361.4	2.4
110°-120°	397.6	2.6
120°-130°	672.4	4.4
130°-140°	396.4	2.6
140°-150°	213.4	1.4
150°-160°	107.8	0.7
160°-170°	59.0	0.4
170°-180°	21.3	0.1
0°-90°	12445.9	81.7
0°-180°	15242.7	100.0



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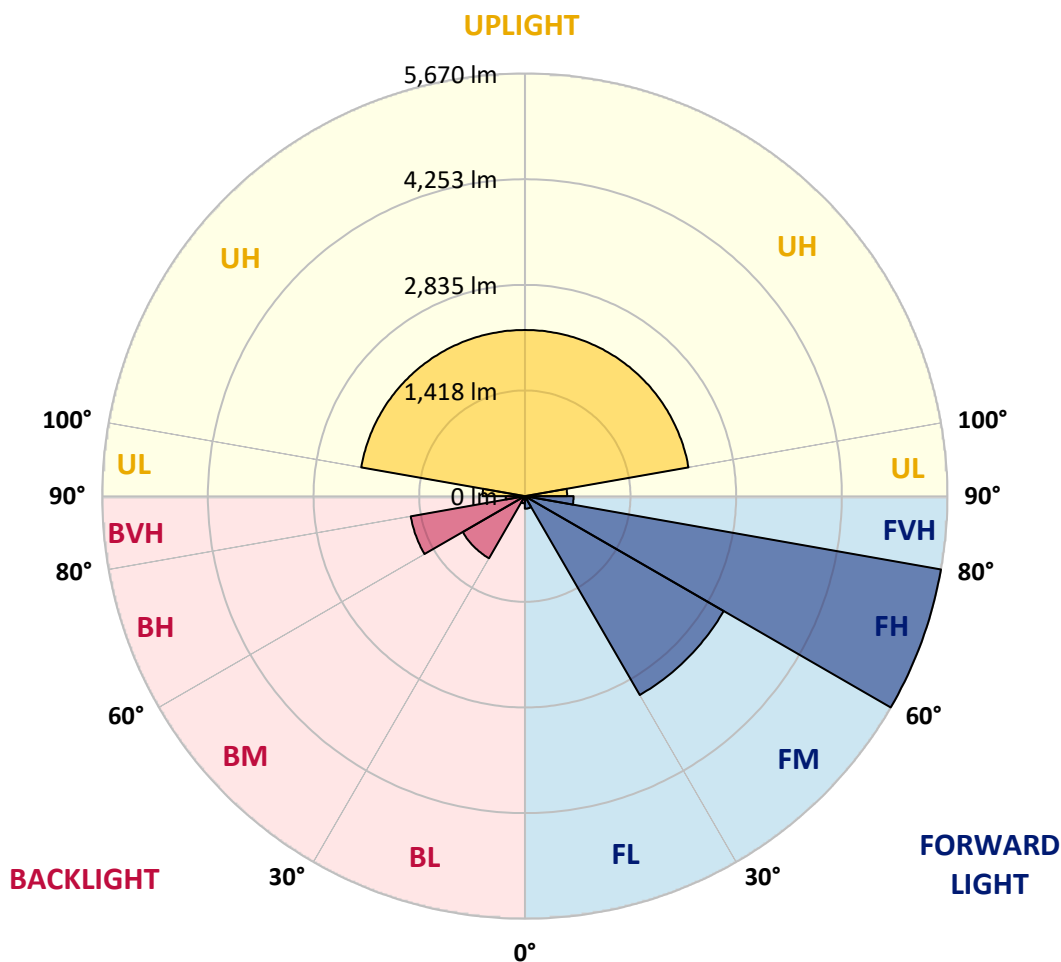
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.2	1.1			
FM (30°-60°)	3081.5	20.2			
FH (60°-80°)	5670.1	37.2			G3/7500
FVH (80°-90°)	653.9	4.3			G4/750
BL (0°-30°)	96.5	0.6	B0/110		
BM (30°-60°)	962.3	6.3	B1/1000		
BH (60°-80°)	1554.4	10.2	B3/2500		G3/2500
BVH (80°-90°)	258.1	1.7			G3/500
UL (90°-100°)	567.5	3.7		U4/1000	
UH (100°-180°)	2229.3	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°	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7
2.5°	120.9	120.9	124.1	124.1	124.1	120.9	119.4	116.2	116.2	116.2	114.7
5°	157.1	155.5	157.1	161.8	163.4	158.6	155.5	150.8	150.8	149.2	149.2
7.5°	212.1	210.5	207.3	202.6	204.2	208.9	215.2	202.6	199.5	191.6	188.5
10°	265.5	262.3	265.5	257.6	249.8	238.8	245.0	241.9	235.6	227.8	221.5
12.5°	323.6	325.1	331.4	325.1	312.6	295.3	292.2	284.3	278.0	276.5	267.0
15°	383.3	384.8	391.1	389.5	377.0	353.4	344.0	336.1	333.0	323.6	303.2
17.5°	414.7	416.3	417.8	419.4	411.5	392.7	378.6	364.4	359.7	356.6	331.4
20°	430.4	427.2	430.4	436.7	443.0	427.2	413.1	405.3	400.5	389.5	356.6
22.5°	455.5	452.4	450.8	455.5	474.4	463.4	449.2	441.4	436.7	422.5	372.3
25°	482.2	479.1	483.8	480.7	504.2	499.5	485.4	477.5	471.2	453.9	395.8
27.5°	512.1	508.9	513.6	510.5	529.3	532.5	523.1	516.8	507.4	482.2	413.1
30°	537.2	534.1	538.8	537.2	556.0	567.0	562.3	560.8	546.6	516.8	443.0
32.5°	557.6	556.0	567.0	571.8	576.5	601.6	598.5	612.6	596.9	560.8	486.9
35°	604.7	609.5	639.3	670.7	675.4	725.7	732.0	783.8	768.1	721.0	631.4
37.5°	934.6	917.3	887.5	857.6	846.6	944.0	958.2	1010.0	970.7	882.8	738.3
40°	995.9	967.6	933.0	909.5	912.6	1087.0	1057.1	1253.5	1141.9	1010.0	901.6
42.5°	945.6	936.2	1057.1	1113.7	1072.8	1327.3	1277.0	1650.9	1523.6	1200.1	1088.5
45°	1185.9	1167.1	1209.5	1266.0	1278.6	1746.7	1712.1	2103.2	2051.4	1500.1	1396.4
47.5°	1357.1	1339.9	1396.4	1588.0	1753.0	2258.7	2447.2	3011.1	2828.9	2131.5	1891.2
50°	1870.8	1867.6	2042.0	2269.7	2558.8	3286.0	3787.1	4420.1	4126.4	3017.4	2593.3
52.5°	2378.1	2384.4	2598.0	3001.7	3301.7	4586.6	5298.2	5741.1	5780.4	3934.7	3361.4
55°	2761.4	2800.7	3058.3	3735.3	4189.2	5744.3	6667.9	7011.9	7404.5	5317.0	4160.9
57.5°	3509.1	3568.8	3813.8	4476.7	5111.2	7186.2	8433.4	8471.1	9057.0	6850.1	5018.6
60°	4162.5	4302.3	4388.7	4990.3	5855.8	8563.8	9745.0	9669.6	10219.3	8120.8	5888.8
62.5°	4365.1	4525.3	4607.0	5247.9	6444.8	9336.6	10357.6	10451.8	10830.4	9013.0	6421.2
65°	4497.1	4685.6	4808.1	5375.1	6451.1	9666.4	10822.5	10923.0	11157.1	9386.8	6686.7
67.5°	4429.5	4669.9	4826.9	5331.1	6111.8	9412.0	10729.8	10536.6	10784.8	9074.3	6389.8
70°	3867.2	4118.5	4277.2	4652.6	5109.7	7913.5	9250.2	8926.6	9144.9	7574.2	5254.2
72.5°	3150.9	3275.0	3372.4	3578.2	3851.5	5836.9	7029.1	6760.5	6890.9	5698.7	3937.9
75°	2588.6	2626.3	2747.3	2865.1	2910.6	4269.3	5568.3	5323.3	5475.7	4338.4	3133.7
77.5°	1880.2	1902.2	2075.0	2093.8	2082.8	2929.5	4388.7	4173.5	4222.2	3224.8	2338.9
80°	1091.7	1134.1	1360.3	1349.3	1330.4	1804.8	3089.7	3003.3	2852.5	2189.6	1619.4
82.5°	769.7	812.1	915.8	939.3	926.7	1295.9	2005.9	1949.3	1785.9	1523.6	1119.9
85°	810.5	815.2	819.9	830.9	810.5	1156.1	1536.2	1507.9	1509.5	1259.7	923.6
87.5°	799.5	818.4	826.2	830.9	810.5	1098.0	1427.8	1391.7	1409.0	1196.9	896.9
90°	702.1	736.7	739.8	747.7	736.7	980.2	1281.7	1247.2	1269.2	1079.1	816.8
92.5°	573.3	592.2	614.2	644.0	631.4	838.8	1090.1	1065.0	1091.7	934.6	717.8
95°	543.5	563.9	578.0	598.5	579.6	765.0	984.9	934.6	956.6	818.4	618.9
97.5°	449.2	466.5	479.1	486.9	472.8	603.2	755.5	721.0	719.4	633.0	494.8
100°	383.3	394.3	405.3	413.1	400.5	499.5	598.5	585.9	589.0	523.1	425.7
102.5°	364.4	370.7	388.0	389.5	375.4	455.5	538.8	534.1	540.3	483.8	399.0
105°	356.6	361.3	375.4	370.7	358.1	425.7	496.4	499.5	499.5	450.8	373.8
107.5°	333.0	340.9	356.6	348.7	342.4	392.7	457.1	446.1	449.2	419.4	355.0
110°	329.9	336.1	351.8	345.6	340.9	383.3	439.8	436.7	441.4	414.7	364.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	410.0	403.7	416.3	403.7	411.5	447.7	507.4	501.1	515.2	505.8	455.5
115°	505.8	508.9	521.5	496.4	504.2	540.3	573.3	584.3	596.9	582.8	530.9
117.5°	468.1	494.8	479.1	475.9	469.7	497.9	493.2	521.5	534.1	523.1	502.6
120°	501.1	534.1	488.5	464.9	455.5	526.2	560.8	559.2	549.8	527.8	485.4
122.5°	749.3	754.0	757.1	827.8	802.7	871.8	892.2	865.5	865.5	893.8	807.4
125°	1168.6	1173.4	1170.2	1201.6	1184.3	1250.3	1277.0	1275.5	1259.7	1245.6	1160.8
127.5°	1181.2	1181.2	1170.2	1152.9	1168.6	1233.0	1234.6	1294.3	1273.9	1236.2	1157.6
130°	824.6	830.9	870.2	882.8	904.8	918.9	903.2	955.0	964.4	958.2	904.8
132.5°	683.3	694.3	736.7	752.4	766.5	768.1	761.8	802.7	812.1	812.1	788.5
135°	590.6	603.2	607.9	600.0	620.4	636.2	648.7	681.7	678.6	672.3	651.9
137.5°	515.2	519.9	505.8	488.5	499.5	545.1	570.2	604.7	603.2	592.2	557.6
140°	435.1	436.7	428.8	421.0	432.0	471.2	494.8	532.5	527.8	519.9	479.1
142.5°	329.9	334.6	355.0	370.7	397.4	479.1	466.5	499.5	523.1	541.9	447.7
145°	347.1	340.9	337.7	355.0	389.5	507.4	471.2	513.6	524.6	537.2	428.8
147.5°	400.5	403.7	399.0	388.0	435.1	472.8	452.4	490.1	496.4	493.2	449.2
150°	314.2	318.9	320.4	315.7	373.8	372.3	351.8	380.1	383.3	383.3	353.4
152.5°	256.0	257.6	254.5	251.3	289.0	282.7	273.3	282.7	281.2	279.6	273.3
155°	243.5	243.5	240.3	241.9	267.0	260.7	254.5	260.7	257.6	252.9	246.6
157.5°	224.6	226.2	226.2	230.9	246.6	235.6	229.3	232.5	229.3	226.2	226.2
160°	212.1	212.1	213.6	219.9	229.3	218.3	213.6	215.2	213.6	210.5	212.1
162.5°	207.3	207.3	208.9	212.1	213.6	207.3	202.6	202.6	202.6	202.6	207.3
165°	204.2	204.2	204.2	205.8	205.8	201.1	199.5	201.1	202.6	204.2	210.5
167.5°	210.5	210.5	210.5	210.5	208.9	205.8	204.2	205.8	207.3	208.9	213.6
170°	219.9	218.3	218.3	216.8	215.2	212.1	210.5	208.9	208.9	210.5	212.1
172.5°	226.2	226.2	224.6	224.6	223.0	219.9	216.8	215.2	215.2	215.2	215.2
175°	234.0	234.0	234.0	234.0	232.5	229.3	227.8	224.6	224.6	224.6	224.6
177.5°	243.5	243.5	243.5	243.5	240.3	237.2	234.0	230.9	230.9	230.9	229.3
180°	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7
2.5°	113.1	111.5	106.8	105.2	103.7	100.5	97.4	95.8	94.2	94.2	95.8
5°	150.8	149.2	149.2	144.5	139.8	131.9	128.8	128.8	130.4	131.9	135.1
7.5°	190.1	193.2	196.3	188.5	174.4	155.5	144.5	147.7	155.5	161.8	161.8
10°	219.9	219.9	230.9	221.5	197.9	174.4	158.6	155.5	157.1	158.6	160.2
12.5°	262.3	262.3	256.0	230.9	207.3	183.8	171.2	168.1	168.1	161.8	160.2
15°	293.7	284.3	262.3	238.8	218.3	194.8	180.6	175.9	171.2	166.5	164.9
17.5°	312.6	295.3	265.5	243.5	223.0	204.2	190.1	180.6	175.9	177.5	177.5
20°	334.6	315.7	289.0	265.5	240.3	215.2	197.9	183.8	179.1	180.6	179.1
22.5°	351.8	333.0	306.3	279.6	252.9	226.2	205.8	188.5	182.2	183.8	183.8
25°	372.3	356.6	328.3	296.9	263.9	238.8	218.3	197.9	188.5	186.9	186.9
27.5°	392.7	381.7	351.8	314.2	279.6	249.8	229.3	205.8	194.8	190.1	190.1
30°	419.4	406.8	377.0	331.4	293.7	265.5	243.5	218.3	202.6	194.8	193.2
32.5°	461.8	447.7	411.5	362.8	309.4	281.2	257.6	229.3	208.9	199.5	197.9
35°	600.0	578.0	521.5	464.9	378.6	314.2	274.9	238.8	215.2	202.6	201.1
37.5°	686.4	633.0	557.6	519.9	425.7	384.8	331.4	273.3	224.6	208.9	205.8
40°	826.2	752.4	658.1	584.3	414.7	421.0	388.0	340.9	267.0	219.9	215.2
42.5°	944.0	851.3	708.4	612.6	416.3	439.8	414.7	375.4	320.4	260.7	251.3
45°	1163.9	1044.6	823.1	658.1	427.2	468.1	436.7	395.8	347.1	306.3	301.6
47.5°	1572.3	1410.5	1028.8	733.5	499.5	543.5	486.9	433.5	389.5	342.4	334.6
50°	2151.9	1958.7	1266.0	793.2	623.6	716.3	614.2	524.6	474.4	439.8	435.1
52.5°	2819.5	2616.9	1440.4	903.2	774.4	929.9	812.1	708.4	642.4	642.4	651.9
55°	3595.5	3392.8	1580.2	1055.5	959.7	1165.5	1038.3	953.4	922.0	1055.5	1091.7
57.5°	4365.1	4107.5	1674.4	1211.1	1176.5	1442.0	1289.6	1217.3	1275.5	1671.3	1793.8
60°	5067.3	4641.6	1748.3	1358.7	1361.8	1661.9	1548.8	1544.1	1633.6	2139.4	2294.9
62.5°	5472.5	4892.9	1743.5	1443.5	1470.2	1798.5	1704.3	1729.4	1779.7	2217.9	2335.7
65°	5750.5	5012.3	1707.4	1481.2	1515.8	1847.2	1729.4	1687.0	1654.0	1963.4	2076.5
67.5°	5558.9	4732.7	1625.7	1426.2	1487.5	1776.5	1621.0	1500.1	1435.7	1592.7	1669.7
70°	4655.7	3947.3	1438.8	1283.3	1339.9	1496.9	1347.7	1228.3	1160.8	1245.6	1281.7
72.5°	3526.3	3003.3	1297.4	1200.1	1174.9	1237.8	1096.4	962.9	922.0	977.0	984.9
75°	2808.5	2349.8	1193.8	1085.4	986.4	1047.7	874.9	713.1	689.6	689.6	677.0
77.5°	2106.4	1742.0	1017.8	845.1	727.3	827.8	651.9	496.4	464.9	458.7	441.4
80°	1412.1	1185.9	684.8	560.8	523.1	614.2	463.4	364.4	366.0	364.4	344.0
82.5°	986.4	915.8	556.0	488.5	447.7	483.8	419.4	350.3	347.1	350.3	328.3
85°	874.9	838.8	538.8	504.2	461.8	466.5	402.1	331.4	333.0	339.3	320.4
87.5°	840.4	799.5	540.3	486.9	450.8	432.0	364.4	306.3	315.7	322.0	306.3
90°	757.1	716.3	496.4	439.8	402.1	375.4	322.0	290.6	303.2	309.4	295.3
92.5°	656.6	614.2	413.1	388.0	378.6	378.6	337.7	309.4	317.3	320.4	307.9
95°	565.5	524.6	367.6	340.9	333.0	334.6	301.6	278.0	282.7	281.2	271.7
97.5°	457.1	432.0	320.4	303.2	295.3	292.2	270.2	252.9	262.3	268.6	260.7
100°	403.7	391.1	309.4	296.9	285.9	284.3	265.5	254.5	262.3	271.7	265.5
102.5°	377.0	367.6	295.3	278.0	270.2	267.0	254.5	241.9	249.8	259.2	254.5
105°	355.0	340.9	282.7	267.0	256.0	254.5	241.9	226.2	230.9	243.5	240.3
107.5°	336.1	326.7	281.2	263.9	249.8	249.8	235.6	223.0	224.6	229.3	229.3
110°	351.8	340.9	292.2	279.6	260.7	254.5	251.3	241.9	234.0	230.9	230.9



REPORT NUMBER: P856128
 CATALOG NUMBER: FFX-CLB-100-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	435.1	414.7	366.0	351.8	320.4	298.4	278.0	259.2	246.6	241.9	238.8
115°	513.6	490.1	432.0	395.8	353.4	320.4	292.2	271.7	252.9	246.6	252.9
117.5°	529.3	466.5	377.0	347.1	322.0	301.6	285.9	270.2	256.0	260.7	256.0
120°	524.6	447.7	380.1	422.5	380.1	333.0	295.3	295.3	290.6	267.0	271.7
122.5°	807.4	754.0	672.3	647.2	527.8	482.2	411.5	351.8	293.7	260.7	245.0
125°	1105.8	1054.0	928.3	832.5	713.1	587.5	450.8	347.1	271.7	240.3	245.0
127.5°	1112.1	1065.0	945.6	783.8	626.7	502.6	375.4	307.9	265.5	245.0	241.9
130°	867.1	821.5	719.4	595.3	496.4	414.7	337.7	278.0	240.3	224.6	219.9
132.5°	750.8	710.0	615.7	502.6	430.4	366.0	301.6	241.9	216.8	205.8	207.3
135°	631.4	582.8	493.2	432.0	386.4	328.3	270.2	221.5	208.9	205.8	204.2
137.5°	535.6	501.1	438.2	391.1	347.1	295.3	237.2	207.3	202.6	205.8	202.6
140°	455.5	427.2	392.7	351.8	298.4	249.8	212.1	197.9	205.8	207.3	205.8
142.5°	392.7	364.4	328.3	273.3	248.2	226.2	216.8	205.8	205.8	204.2	202.6
145°	328.3	290.6	273.3	281.2	265.5	243.5	226.2	204.2	196.3	196.3	197.9
147.5°	377.0	337.7	315.7	298.4	268.6	237.2	210.5	190.1	186.9	193.2	191.6
150°	325.1	289.0	273.3	249.8	230.9	207.3	190.1	182.2	183.8	191.6	191.6
152.5°	259.2	234.0	224.6	218.3	208.9	194.8	185.3	182.2	185.3	188.5	188.5
155°	243.5	229.3	218.3	213.6	202.6	191.6	183.8	182.2	185.3	188.5	191.6
157.5°	227.8	223.0	208.9	204.2	194.8	190.1	185.3	185.3	186.9	190.1	193.2
160°	216.8	215.2	202.6	201.1	194.8	191.6	191.6	193.2	194.8	194.8	194.8
162.5°	210.5	210.5	205.8	202.6	201.1	199.5	204.2	205.8	204.2	204.2	204.2
165°	212.1	213.6	208.9	205.8	204.2	207.3	215.2	215.2	212.1	210.5	208.9
167.5°	213.6	215.2	212.1	210.5	210.5	213.6	216.8	215.2	213.6	212.1	210.5
170°	212.1	213.6	213.6	215.2	215.2	215.2	218.3	218.3	215.2	213.6	213.6
172.5°	215.2	216.8	218.3	219.9	221.5	219.9	221.5	221.5	221.5	221.5	223.0
175°	224.6	224.6	226.2	226.2	224.6	226.2	226.2	226.2	227.8	230.9	230.9
177.5°	229.3	229.3	227.8	227.8	226.2	227.8	227.8	227.8	227.8	229.3	227.8
180°	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-1

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5.

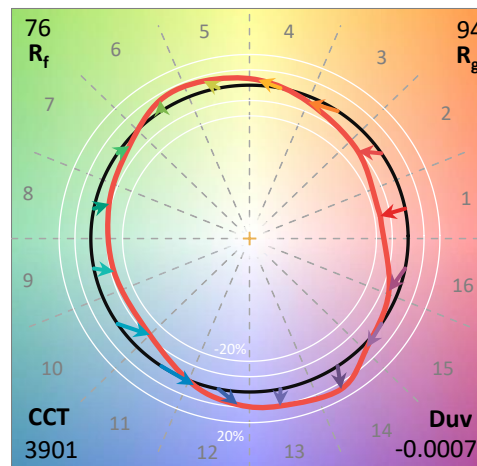
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-1
 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-100-740-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3901
 CIE u': 0.2273
 CIE v': 0.5026
 Duv: -0.0007
 CIE x: 0.3844
 CIE y: 0.3776
 CIE z: 0.2380
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 579
 Purity: 28.6799
 Rf: 76.2
 Rg: 94.4

CRI (Ra):	74.5		
R1:	71.8	R9:	-23.4
R2:	81.9	R10:	56.6
R3:	89.3	R11:	68.4
R4:	72.6	R12:	46.6
R5:	71.3	R13:	73.7
R6:	74.0	R14:	93.9
R7:	81.5	R15:	65.1
R8:	53.3		



Test Conditions

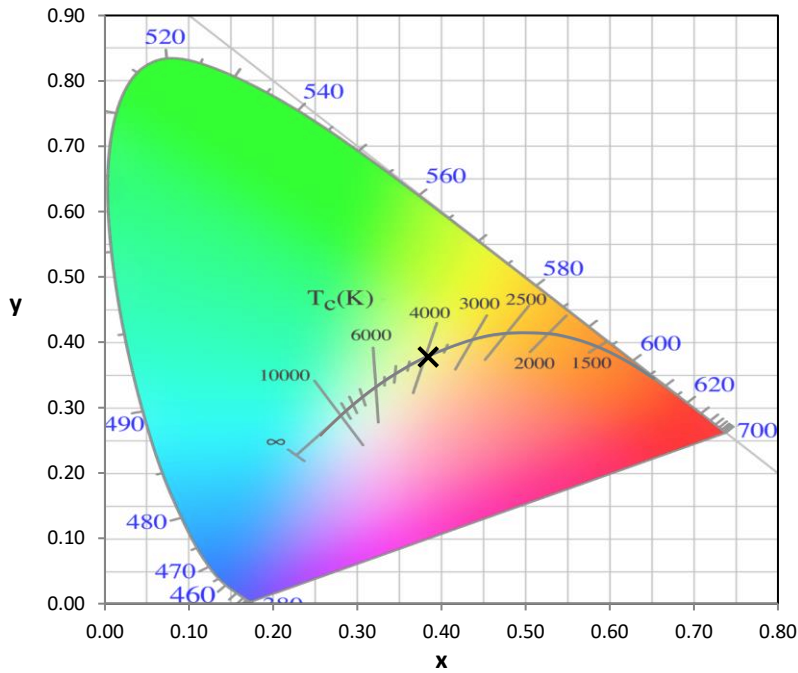
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

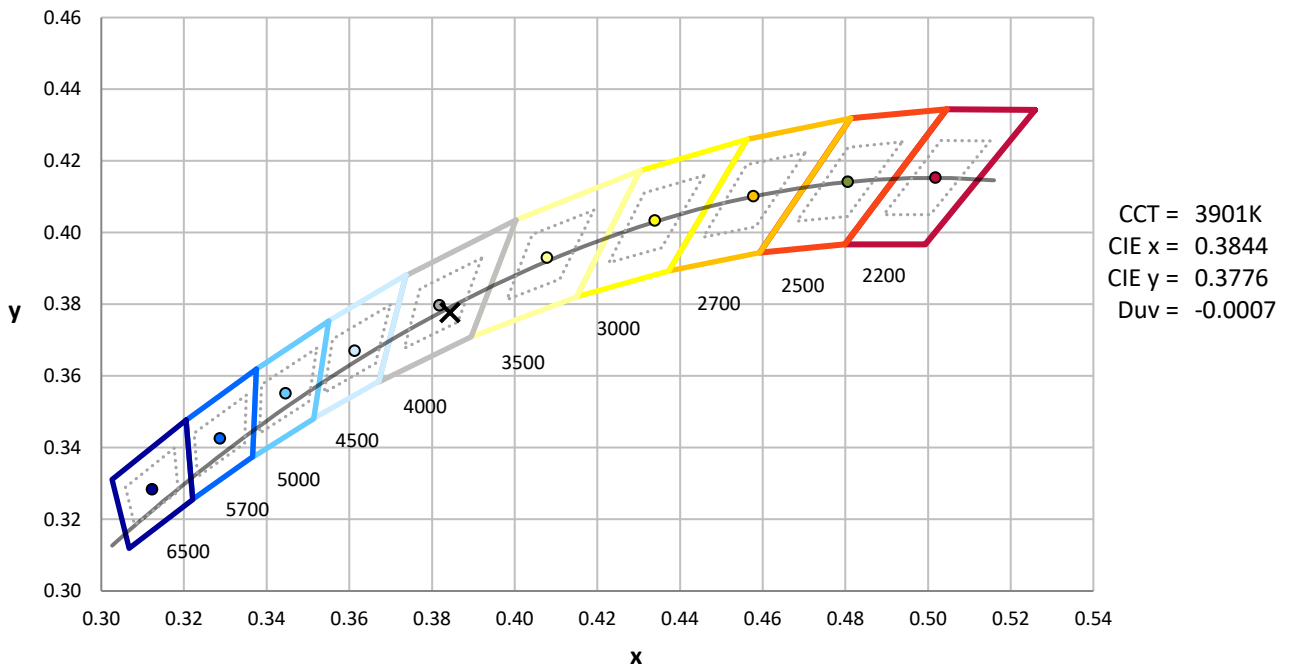
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-1

CIE 1931 Chromaticity Diagram



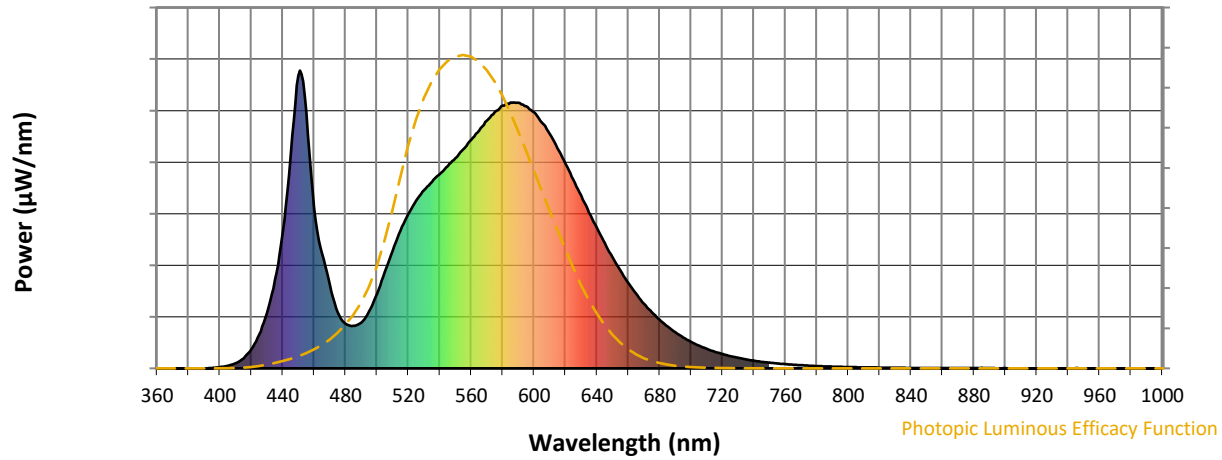
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

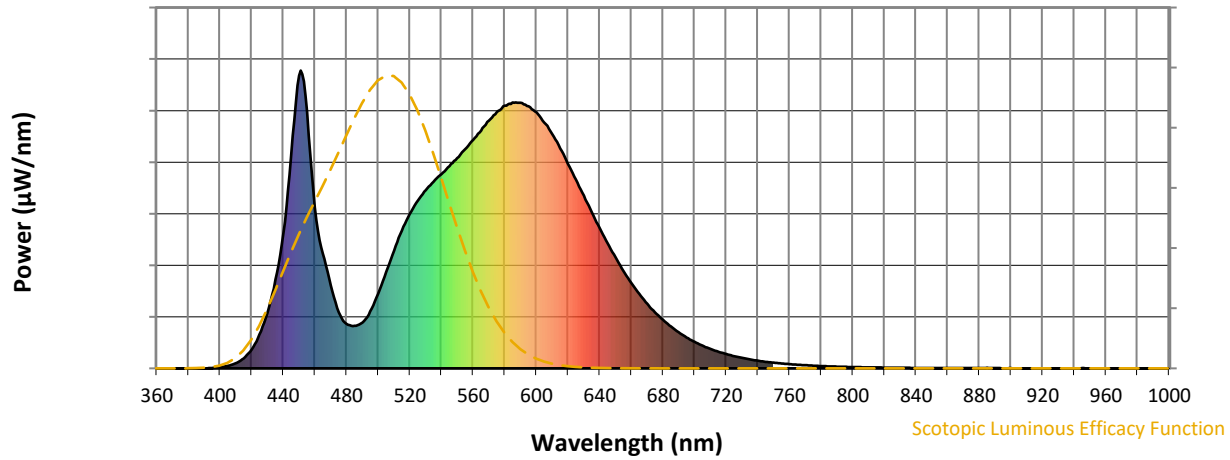


Photopic Lumens: NR

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



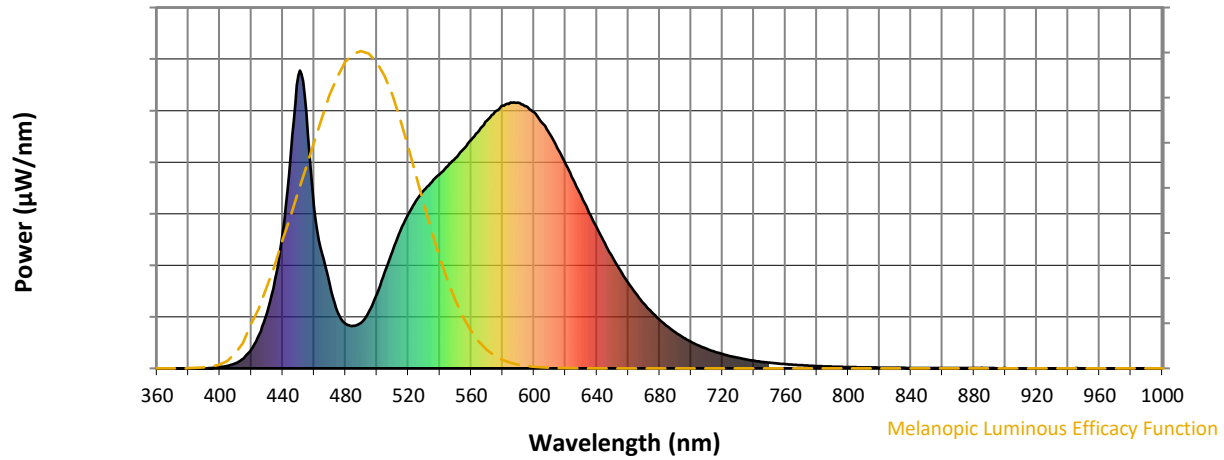
Scotopic Lumens: NR

S/P: 1.53

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

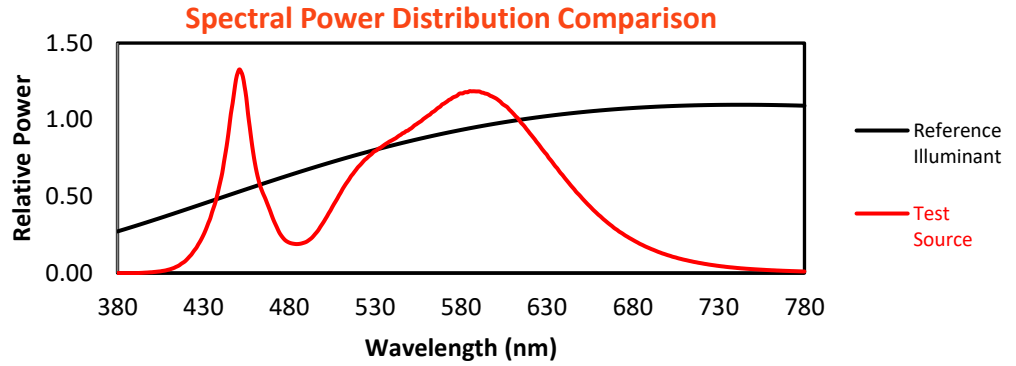
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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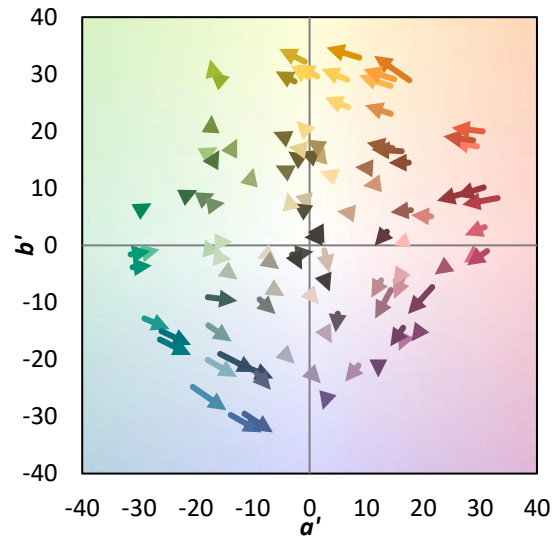
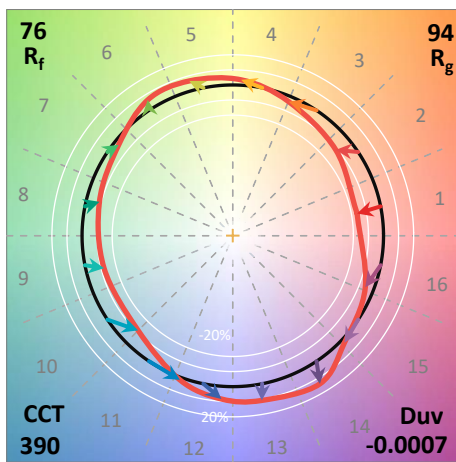
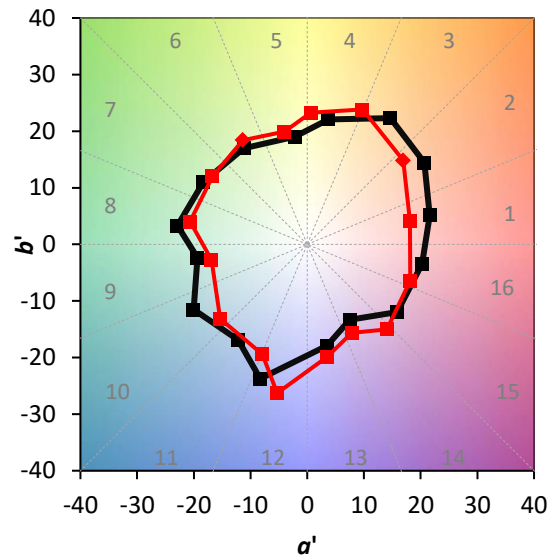
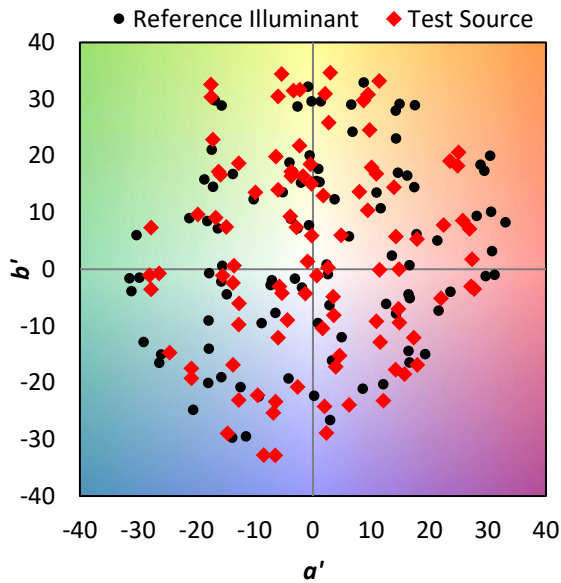
TM-30-18

Summary

$R_f = 76.2$
 $R_g = 94.4$
 CIE $R_a = 74.5$
 $R_g = -23.4$



Color Vector Graphics

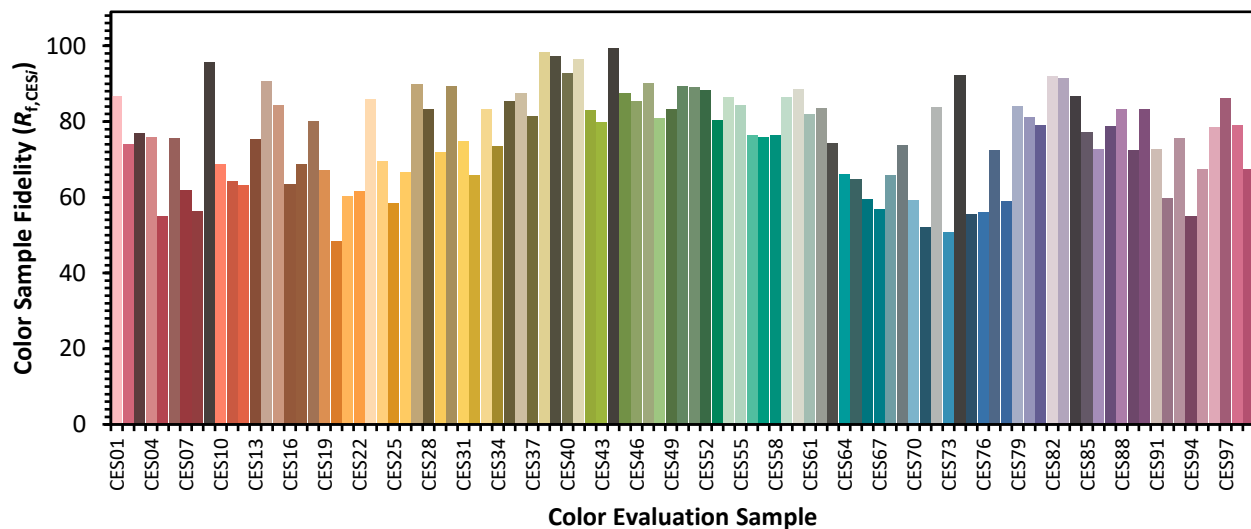


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TM-30-18

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

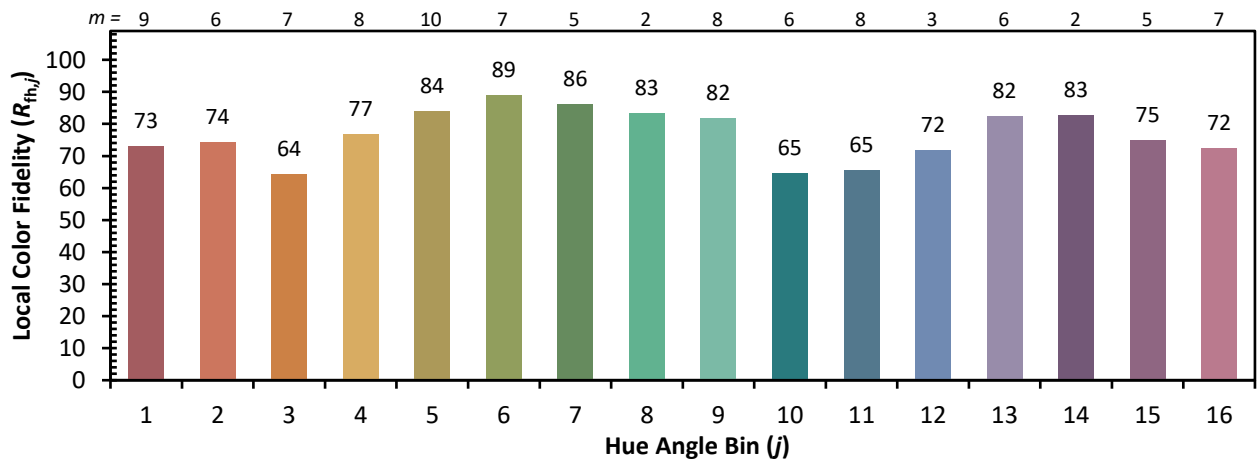
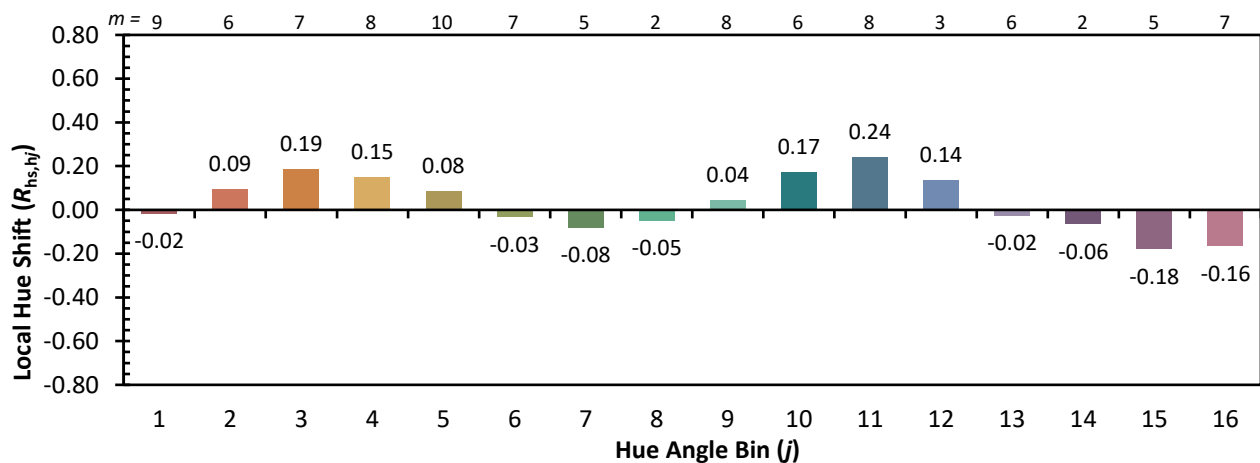
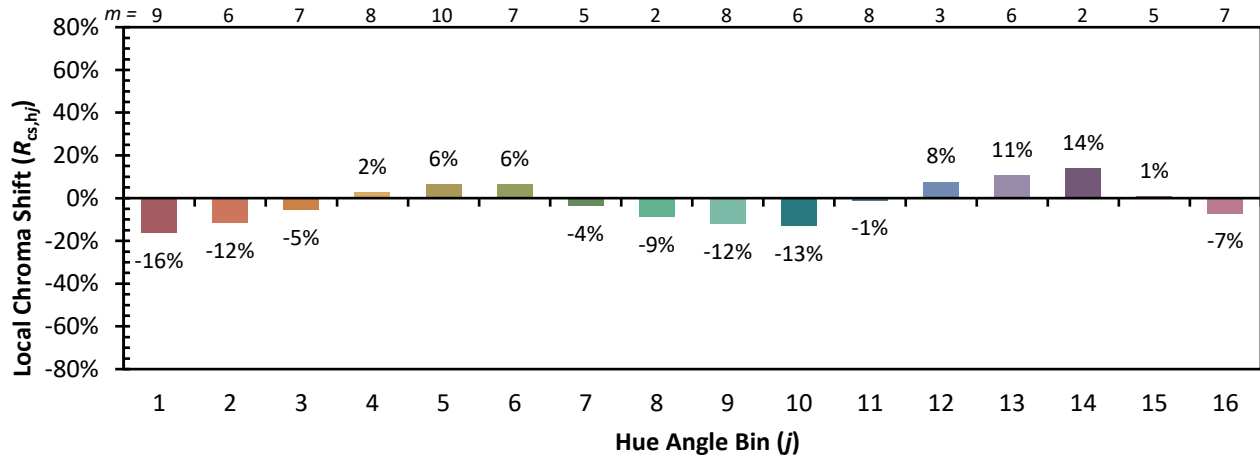
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 92
CES08 = 39	CES33 = 83	CES58 = 76	CES83 = 92
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 73
CES12 = 63	CES37 = 81	CES62 = 84	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 74	CES88 = 83
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 59	CES91 = 73
CES17 = 49	CES42 = 83	CES67 = 57	CES92 = 60
CES18 = 56	CES43 = 80	CES68 = 66	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 74	CES94 = 55
CES20 = 65	CES45 = 87	CES70 = 59	CES95 = 67
CES21 = 86	CES46 = 85	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 90	CES72 = 84	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 51	CES98 = 79
CES24 = 91	CES49 = 83	CES74 = 92	CES99 = 68
CES25 = 72	CES50 = 89	CES75 = 56	



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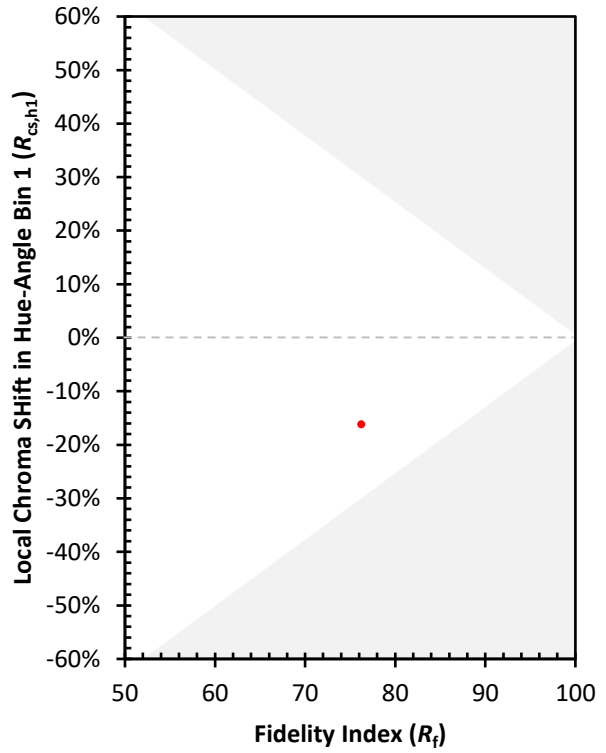
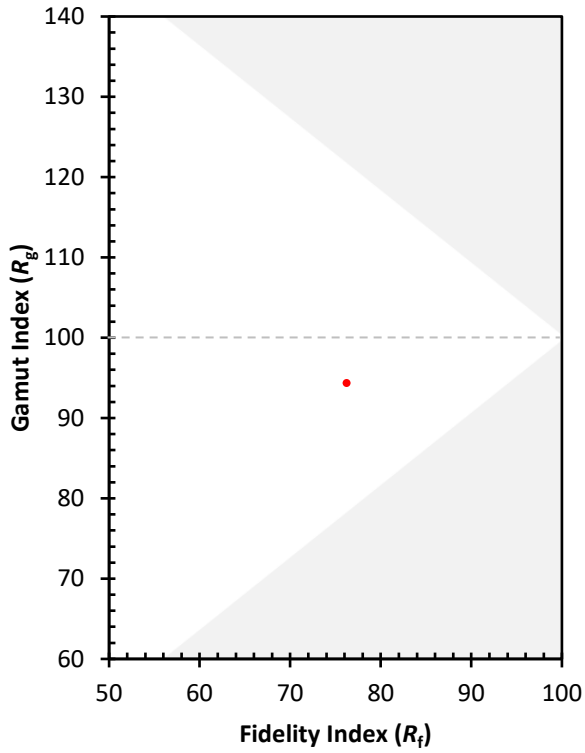
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)