

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: P856111

Luminaire Tested: **FFX-CLB-90-727-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856111
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-727-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

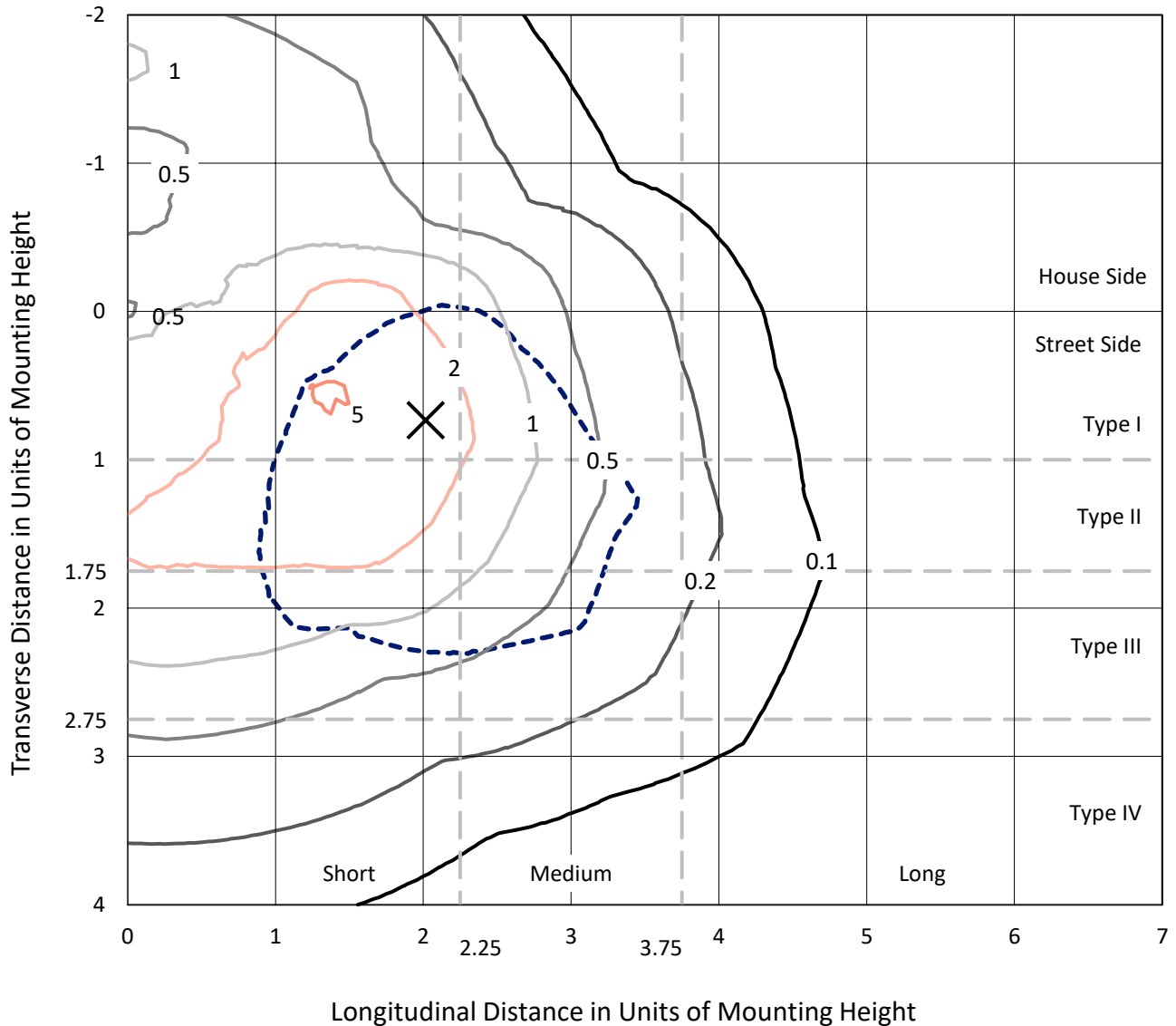
Lumens per Lamp: N/A
Luminaire Lumens: 12954.8 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 90.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.6%%
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

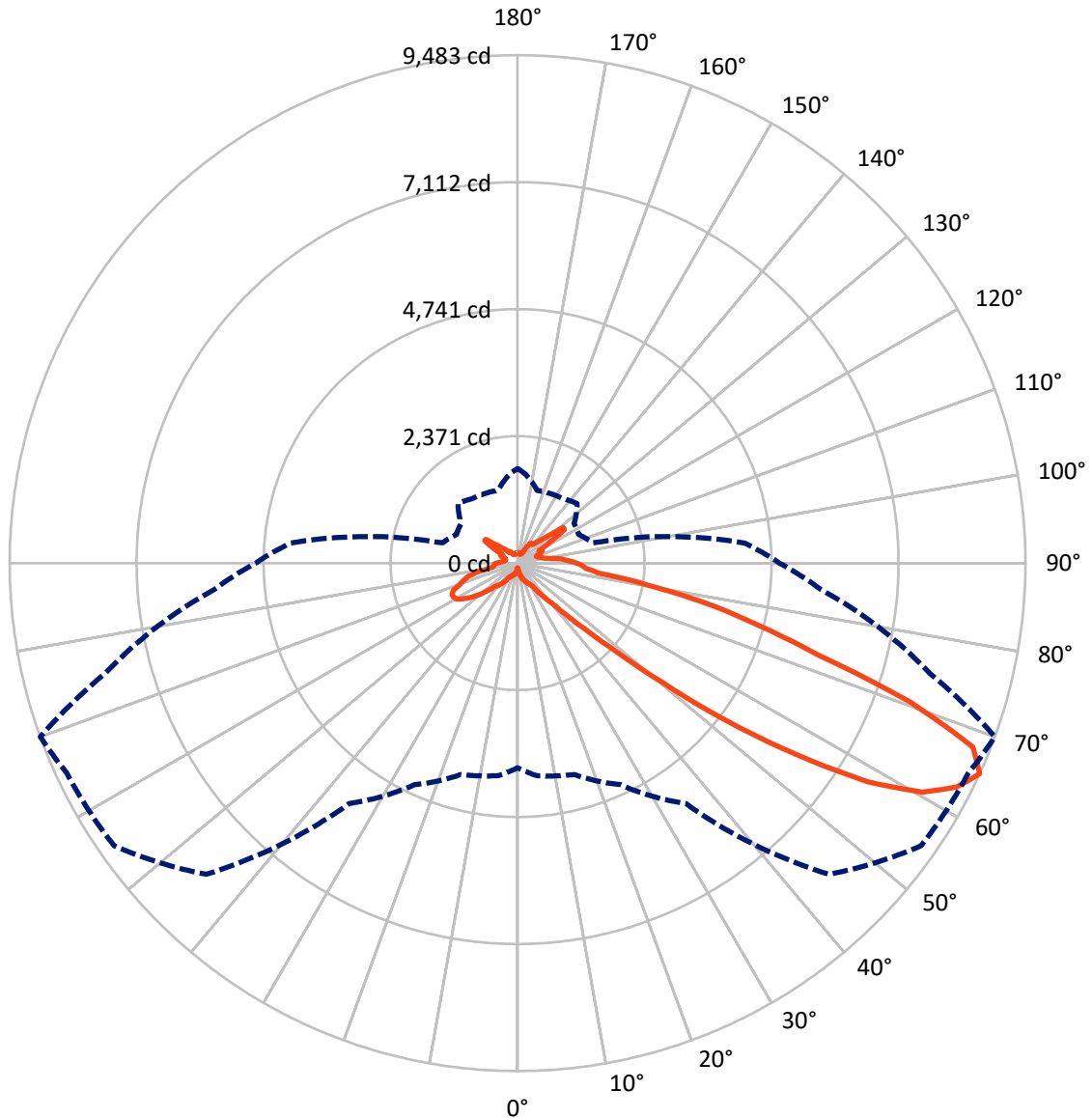
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 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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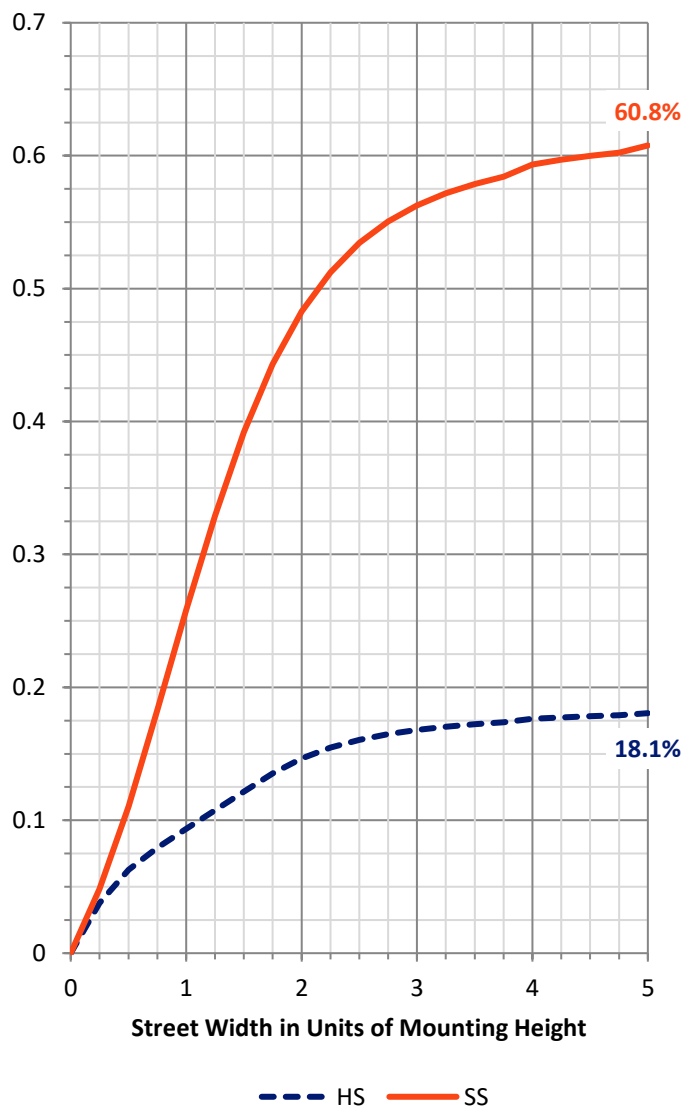
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2440.3	870.6	3310.9
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	8137.5	1506.5	9644.0
	% Fixture	62.8	11.6	74.4
Total	Lumens	10577.8	2377.0	12954.8
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	0.1
10°-20°	67.9	0.5
20°-30°	144.1	1.1
30°-40°	293.4	2.3
40°-50°	746.0	5.8
50°-60°	2397.5	18.5
60°-70°	3912.7	30.2
70°-80°	2227.5	17.2
80°-90°	775.1	6.0
90°-100°	482.3	3.7
100°-110°	307.2	2.4
110°-120°	337.9	2.6
120°-130°	571.5	4.4
130°-140°	336.9	2.6
140°-150°	181.3	1.4
150°-160°	91.6	0.7
160°-170°	50.2	0.4
170°-180°	18.1	0.1
0°-90°	10577.8	81.7
0°-180°	12954.8	100.0



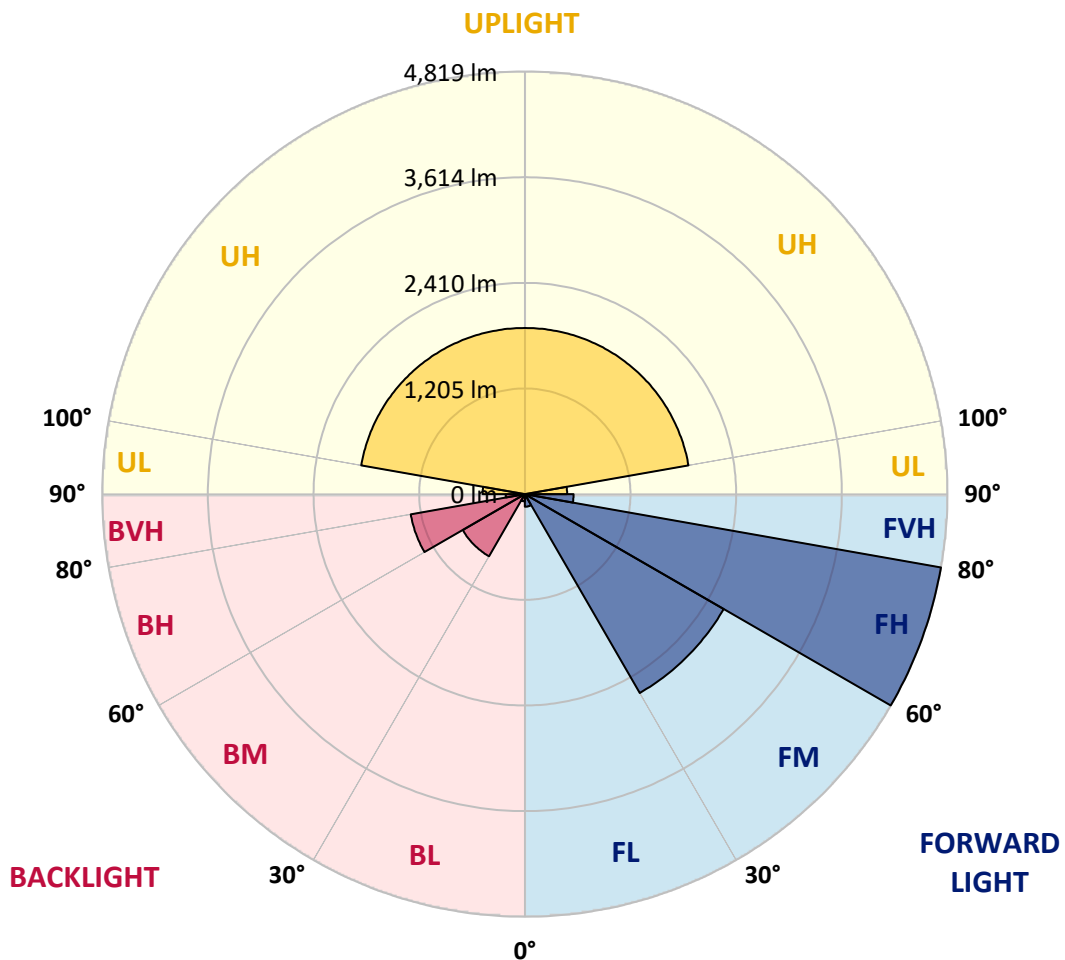
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.8	1.1			
FM (30°-60°)	2619.0	20.2			
FH (60°-80°)	4819.0	37.2			G2/5000
FVH (80°-90°)	555.7	4.3			G4/750
BL (0°-30°)	82.0	0.6	B0/110		
BM (30°-60°)	817.9	6.3	B1/1000		
BH (60°-80°)	1321.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	219.3	1.7			G2/225
UL (90°-100°)	482.3	3.7		U3/500	
UH (100°-180°)	1894.7	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°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2.5°	102.8	102.8	105.5	105.5	105.5	102.8	101.5	98.8	98.8	98.8	97.5
5°	133.5	132.2	133.5	137.5	138.8	134.8	132.2	128.2	128.2	126.8	126.8
7.5°	180.2	178.9	176.2	172.2	173.5	177.6	182.9	172.2	169.5	162.9	160.2
10°	225.6	222.9	225.6	218.9	212.3	202.9	208.3	205.6	200.2	193.6	188.2
12.5°	275.0	276.3	281.7	276.3	265.7	251.0	248.3	241.6	236.3	235.0	226.9
15°	325.7	327.1	332.4	331.1	320.4	300.4	292.4	285.7	283.0	275.0	257.7
17.5°	352.4	353.8	355.1	356.4	349.8	333.7	321.7	309.7	305.7	303.0	281.7
20°	365.8	363.1	365.8	371.1	376.5	363.1	351.1	344.4	340.4	331.1	303.0
22.5°	387.1	384.5	383.1	387.1	403.2	393.8	381.8	375.1	371.1	359.1	316.4
25°	409.8	407.2	411.2	408.5	428.5	424.5	412.5	405.8	400.5	385.8	336.4
27.5°	435.2	432.5	436.5	433.9	449.9	452.6	444.6	439.2	431.2	409.8	351.1
30°	456.6	453.9	457.9	456.6	472.6	481.9	477.9	476.6	464.6	439.2	376.5
32.5°	473.9	472.6	481.9	485.9	489.9	511.3	508.6	520.6	507.3	476.6	413.8
35°	514.0	518.0	543.3	570.0	574.0	616.8	622.1	666.2	652.8	612.8	536.7
37.5°	794.3	779.6	754.3	728.9	719.6	802.3	814.3	858.4	825.0	750.3	627.4
40°	846.4	822.4	793.0	773.0	775.6	923.8	898.5	1065.3	970.5	858.4	766.3
42.5°	803.7	795.7	898.5	946.5	911.8	1128.1	1085.3	1403.1	1294.9	1019.9	925.2
45°	1007.9	991.9	1027.9	1076.0	1086.7	1484.5	1455.1	1787.6	1743.5	1274.9	1186.8
47.5°	1153.4	1138.7	1186.8	1349.7	1489.9	1919.7	2079.9	2559.2	2404.3	1811.6	1607.3
50°	1590.0	1587.3	1735.5	1929.1	2174.7	2792.8	3218.7	3756.7	3507.0	2564.5	2204.1
52.5°	2021.2	2026.5	2208.1	2551.2	2806.2	3898.2	4502.9	4879.4	4912.8	3344.2	2856.9
55°	2346.9	2380.3	2599.2	3174.6	3560.4	4882.1	5667.0	5959.4	6293.2	4519.0	3536.4
57.5°	2982.4	3033.1	3241.4	3804.7	4344.1	6107.6	7167.6	7199.6	7697.6	5821.9	4265.3
60°	3537.7	3656.5	3730.0	4241.3	4976.9	7278.4	8282.3	8218.2	8685.5	6901.9	5004.9
62.5°	3709.9	3846.1	3915.5	4460.2	5477.5	7935.2	8802.9	8883.0	9204.8	7660.2	5457.5
65°	3822.1	3982.3	4086.4	4568.3	5482.8	8215.5	9198.1	9283.5	9482.5	7977.9	5683.1
67.5°	3764.7	3968.9	4102.4	4531.0	5194.5	7999.3	9119.3	8955.1	9166.1	7712.3	5430.8
70°	3286.8	3500.4	3635.2	3954.2	4342.7	6725.7	7861.8	7586.8	7772.3	6437.3	4465.6
72.5°	2678.0	2783.5	2866.2	3041.1	3273.4	4960.8	5974.1	5745.8	5856.6	4843.4	3346.8
75°	2200.1	2232.1	2334.9	2435.0	2473.7	3628.5	4732.6	4524.3	4653.8	3687.3	2663.3
77.5°	1598.0	1616.7	1763.5	1779.5	1770.2	2489.8	3730.0	3547.1	3588.5	2740.7	1987.8
80°	927.8	963.9	1156.1	1146.8	1130.7	1533.9	2625.9	2552.5	2424.3	1861.0	1376.4
82.5°	654.1	690.2	778.3	798.3	787.6	1101.4	1704.8	1656.7	1517.9	1294.9	951.9
85°	688.9	692.9	696.9	706.2	688.9	982.6	1305.6	1281.6	1282.9	1070.7	785.0
87.5°	679.5	695.5	702.2	706.2	688.9	933.2	1213.5	1182.8	1197.5	1017.3	762.3
90°	596.7	626.1	628.8	635.5	626.1	833.0	1089.4	1060.0	1078.7	917.1	694.2
92.5°	487.3	503.3	522.0	547.3	536.7	712.9	926.5	905.1	927.8	794.3	610.1
95°	461.9	479.3	491.3	508.6	492.6	650.1	837.0	794.3	813.0	695.5	526.0
97.5°	381.8	396.5	407.2	413.8	401.8	512.6	642.1	612.8	611.4	538.0	420.5
100°	325.7	335.1	344.4	351.1	340.4	424.5	508.6	498.0	500.6	444.6	361.8
102.5°	309.7	315.1	329.7	331.1	319.1	387.1	457.9	453.9	459.2	411.2	339.1
105°	303.0	307.0	319.1	315.1	304.4	361.8	421.9	424.5	424.5	383.1	317.7
107.5°	283.0	289.7	303.0	296.4	291.0	333.7	388.5	379.1	381.8	356.4	301.7
110°	280.3	285.7	299.0	293.7	289.7	325.7	373.8	371.1	375.1	352.4	309.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	348.4	343.1	353.8	343.1	349.8	380.5	431.2	425.9	437.9	429.9	387.1
115°	429.9	432.5	443.2	421.9	428.5	459.2	487.3	496.6	507.3	495.3	451.2
117.5°	397.8	420.5	407.2	404.5	399.2	423.2	419.2	443.2	453.9	444.6	427.2
120°	425.9	453.9	415.2	395.2	387.1	447.2	476.6	475.3	467.2	448.6	412.5
122.5°	636.8	640.8	643.5	703.5	682.2	740.9	758.3	735.6	735.6	759.6	686.2
125°	993.2	997.2	994.6	1021.3	1006.6	1062.7	1085.3	1084.0	1070.7	1058.6	986.6
127.5°	1003.9	1003.9	994.6	979.9	993.2	1048.0	1049.3	1100.0	1082.7	1050.6	983.9
130°	700.9	706.2	739.6	750.3	769.0	781.0	767.6	811.7	819.7	814.3	769.0
132.5°	580.7	590.1	626.1	639.5	651.5	652.8	647.5	682.2	690.2	690.2	670.2
135°	502.0	512.6	516.6	510.0	527.3	540.7	551.4	579.4	576.7	571.4	554.0
137.5°	437.9	441.9	429.9	415.2	424.5	463.2	484.6	514.0	512.6	503.3	473.9
140°	369.8	371.1	364.5	357.8	367.1	400.5	420.5	452.6	448.6	441.9	407.2
142.5°	280.3	284.4	301.7	315.1	337.8	407.2	396.5	424.5	444.6	460.6	380.5
145°	295.0	289.7	287.0	301.7	331.1	431.2	400.5	436.5	445.9	456.6	364.5
147.5°	340.4	343.1	339.1	329.7	369.8	401.8	384.5	416.5	421.9	419.2	381.8
150°	267.0	271.0	272.3	268.3	317.7	316.4	299.0	323.1	325.7	325.7	300.4
152.5°	217.6	218.9	216.3	213.6	245.6	240.3	232.3	240.3	239.0	237.6	232.3
155°	206.9	206.9	204.3	205.6	226.9	221.6	216.3	221.6	218.9	214.9	209.6
157.5°	190.9	192.2	192.2	196.2	209.6	200.2	194.9	197.6	194.9	192.2	192.2
160°	180.2	180.2	181.6	186.9	194.9	185.6	181.6	182.9	181.6	178.9	180.2
162.5°	176.2	176.2	177.6	180.2	181.6	176.2	172.2	172.2	172.2	172.2	176.2
165°	173.5	173.5	173.5	174.9	174.9	170.9	169.5	170.9	172.2	173.5	178.9
167.5°	178.9	178.9	178.9	178.9	177.6	174.9	173.5	174.9	176.2	177.6	181.6
170°	186.9	185.6	185.6	184.2	182.9	180.2	178.9	177.6	177.6	178.9	180.2
172.5°	192.2	192.2	190.9	190.9	189.6	186.9	184.2	182.9	182.9	182.9	182.9
175°	198.9	198.9	198.9	198.9	197.6	194.9	193.6	190.9	190.9	190.9	190.9
177.5°	206.9	206.9	206.9	206.9	204.3	201.6	198.9	196.2	196.2	196.2	194.9
180°	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2.5°	96.1	94.8	90.8	89.4	88.1	85.4	82.8	81.4	80.1	80.1	81.4
5°	128.2	126.8	126.8	122.8	118.8	112.1	109.5	109.5	110.8	112.1	114.8
7.5°	161.5	164.2	166.9	160.2	148.2	132.2	122.8	125.5	132.2	137.5	137.5
10°	186.9	186.9	196.2	188.2	168.2	148.2	134.8	132.2	133.5	134.8	136.2
12.5°	222.9	222.9	217.6	196.2	176.2	156.2	145.5	142.8	142.8	137.5	136.2
15°	249.6	241.6	222.9	202.9	185.6	165.5	153.5	149.5	145.5	141.5	140.2
17.5°	265.7	251.0	225.6	206.9	189.6	173.5	161.5	153.5	149.5	150.9	150.9
20°	284.4	268.3	245.6	225.6	204.3	182.9	168.2	156.2	152.2	153.5	152.2
22.5°	299.0	283.0	260.3	237.6	214.9	192.2	174.9	160.2	154.9	156.2	156.2
25°	316.4	303.0	279.0	252.3	224.3	202.9	185.6	168.2	160.2	158.9	158.9
27.5°	333.7	324.4	299.0	267.0	237.6	212.3	194.9	174.9	165.5	161.5	161.5
30°	356.4	345.8	320.4	281.7	249.6	225.6	206.9	185.6	172.2	165.5	164.2
32.5°	392.5	380.5	349.8	308.4	263.0	239.0	218.9	194.9	177.6	169.5	168.2
35°	510.0	491.3	443.2	395.2	321.7	267.0	233.6	202.9	182.9	172.2	170.9
37.5°	583.4	538.0	473.9	441.9	361.8	327.1	281.7	232.3	190.9	177.6	174.9
40°	702.2	639.5	559.4	496.6	352.4	357.8	329.7	289.7	226.9	186.9	182.9
42.5°	802.3	723.6	602.1	520.6	353.8	373.8	352.4	319.1	272.3	221.6	213.6
45°	989.2	887.8	699.5	559.4	363.1	397.8	371.1	336.4	295.0	260.3	256.3
47.5°	1336.3	1198.8	874.4	623.4	424.5	461.9	413.8	368.5	331.1	291.0	284.4
50°	1828.9	1664.7	1076.0	674.2	530.0	608.8	522.0	445.9	403.2	373.8	369.8
52.5°	2396.3	2224.1	1224.2	767.6	658.2	790.3	690.2	602.1	546.0	546.0	554.0
55°	3055.8	2883.6	1343.0	897.1	815.7	990.6	882.4	810.3	783.6	897.1	927.8
57.5°	3709.9	3491.0	1423.1	1029.3	999.9	1225.5	1096.0	1034.6	1084.0	1420.4	1524.6
60°	4306.7	3944.9	1485.8	1154.8	1157.4	1412.4	1316.3	1312.3	1388.4	1818.3	1950.4
62.5°	4651.1	4158.5	1481.8	1226.9	1249.6	1528.6	1448.5	1469.8	1512.5	1885.0	1985.1
65°	4887.4	4260.0	1451.1	1258.9	1288.3	1570.0	1469.8	1433.8	1405.7	1668.7	1764.9
67.5°	4724.5	4022.3	1381.7	1212.2	1264.2	1509.9	1377.7	1274.9	1220.2	1353.7	1419.1
70°	3956.9	3354.8	1222.9	1090.7	1138.7	1272.2	1145.4	1044.0	986.6	1058.6	1089.4
72.5°	2997.1	2552.5	1102.7	1019.9	998.6	1052.0	931.8	818.4	783.6	830.4	837.0
75°	2387.0	1997.1	1014.6	922.5	838.4	890.4	743.6	606.1	586.1	586.1	575.4
77.5°	1790.2	1480.5	865.1	718.2	618.1	703.5	554.0	421.9	395.2	389.8	375.1
80°	1200.2	1007.9	582.1	476.6	444.6	522.0	393.8	309.7	311.1	309.7	292.4
82.5°	838.4	778.3	472.6	415.2	380.5	411.2	356.4	297.7	295.0	297.7	279.0
85°	743.6	712.9	457.9	428.5	392.5	396.5	341.8	281.7	283.0	288.4	272.3
87.5°	714.2	679.5	459.2	413.8	383.1	367.1	309.7	260.3	268.3	273.7	260.3
90°	643.5	608.8	421.9	373.8	341.8	319.1	273.7	247.0	257.7	263.0	251.0
92.5°	558.0	522.0	351.1	329.7	321.7	321.7	287.0	263.0	269.7	272.3	261.7
95°	480.6	445.9	312.4	289.7	283.0	284.4	256.3	236.3	240.3	239.0	231.0
97.5°	388.5	367.1	272.3	257.7	251.0	248.3	229.6	214.9	222.9	228.3	221.6
100°	343.1	332.4	263.0	252.3	243.0	241.6	225.6	216.3	222.9	231.0	225.6
102.5°	320.4	312.4	251.0	236.3	229.6	226.9	216.3	205.6	212.3	220.3	216.3
105°	301.7	289.7	240.3	226.9	217.6	216.3	205.6	192.2	196.2	206.9	204.3
107.5°	285.7	277.7	239.0	224.3	212.3	212.3	200.2	189.6	190.9	194.9	194.9
110°	299.0	289.7	248.3	237.6	221.6	216.3	213.6	205.6	198.9	196.2	196.2



REPORT NUMBER: P856111
 CATALOG NUMBER: FFX-CLB-90-727-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	369.8	352.4	311.1	299.0	272.3	253.6	236.3	220.3	209.6	205.6	202.9
115°	436.5	416.5	367.1	336.4	300.4	272.3	248.3	231.0	214.9	209.6	214.9
117.5°	449.9	396.5	320.4	295.0	273.7	256.3	243.0	229.6	217.6	221.6	217.6
120°	445.9	380.5	323.1	359.1	323.1	283.0	251.0	251.0	247.0	226.9	231.0
122.5°	686.2	640.8	571.4	550.0	448.6	409.8	349.8	299.0	249.6	221.6	208.3
125°	939.8	895.8	789.0	707.5	606.1	499.3	383.1	295.0	231.0	204.3	208.3
127.5°	945.2	905.1	803.7	666.2	532.7	427.2	319.1	261.7	225.6	208.3	205.6
130°	736.9	698.2	611.4	506.0	421.9	352.4	287.0	236.3	204.3	190.9	186.9
132.5°	638.1	603.4	523.3	427.2	365.8	311.1	256.3	205.6	184.2	174.9	176.2
135°	536.7	495.3	419.2	367.1	328.4	279.0	229.6	188.2	177.6	174.9	173.5
137.5°	455.2	425.9	372.5	332.4	295.0	251.0	201.6	176.2	172.2	174.9	172.2
140°	387.1	363.1	333.7	299.0	253.6	212.3	180.2	168.2	174.9	176.2	174.9
142.5°	333.7	309.7	279.0	232.3	210.9	192.2	184.2	174.9	174.9	173.5	172.2
145°	279.0	247.0	232.3	239.0	225.6	206.9	192.2	173.5	166.9	166.9	168.2
147.5°	320.4	287.0	268.3	253.6	228.3	201.6	178.9	161.5	158.9	164.2	162.9
150°	276.3	245.6	232.3	212.3	196.2	176.2	161.5	154.9	156.2	162.9	162.9
152.5°	220.3	198.9	190.9	185.6	177.6	165.5	157.5	154.9	157.5	160.2	160.2
155°	206.9	194.9	185.6	181.6	172.2	162.9	156.2	154.9	157.5	160.2	162.9
157.5°	193.6	189.6	177.6	173.5	165.5	161.5	157.5	157.5	158.9	161.5	164.2
160°	184.2	182.9	172.2	170.9	165.5	162.9	162.9	164.2	165.5	165.5	165.5
162.5°	178.9	178.9	174.9	172.2	170.9	169.5	173.5	174.9	173.5	173.5	173.5
165°	180.2	181.6	177.6	174.9	173.5	176.2	182.9	182.9	180.2	178.9	177.6
167.5°	181.6	182.9	180.2	178.9	178.9	181.6	184.2	182.9	181.6	180.2	178.9
170°	180.2	181.6	181.6	182.9	182.9	182.9	185.6	185.6	182.9	181.6	181.6
172.5°	182.9	184.2	185.6	186.9	188.2	186.9	188.2	188.2	188.2	188.2	189.6
175°	190.9	190.9	192.2	192.2	190.9	192.2	192.2	192.2	193.6	196.2	196.2
177.5°	194.9	194.9	193.6	193.6	192.2	193.6	193.6	193.6	193.6	194.9	193.6
180°	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6	197.6

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-3

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5.

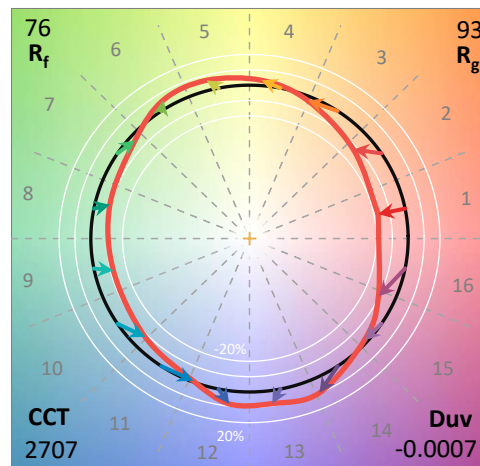
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-727-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2707
 CIE u': 0.2624
 CIE v': 0.5261
 Duv: -0.0007
 CIE x: 0.4580
 CIE y: 0.4082
 CIE z: 0.1338
 Peak Wavelength (nm): 599
 Dominant Wavelength (nm): 584
 Purity: 59.99901
 Rf: 75.5
 Rg: 92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



Test Conditions

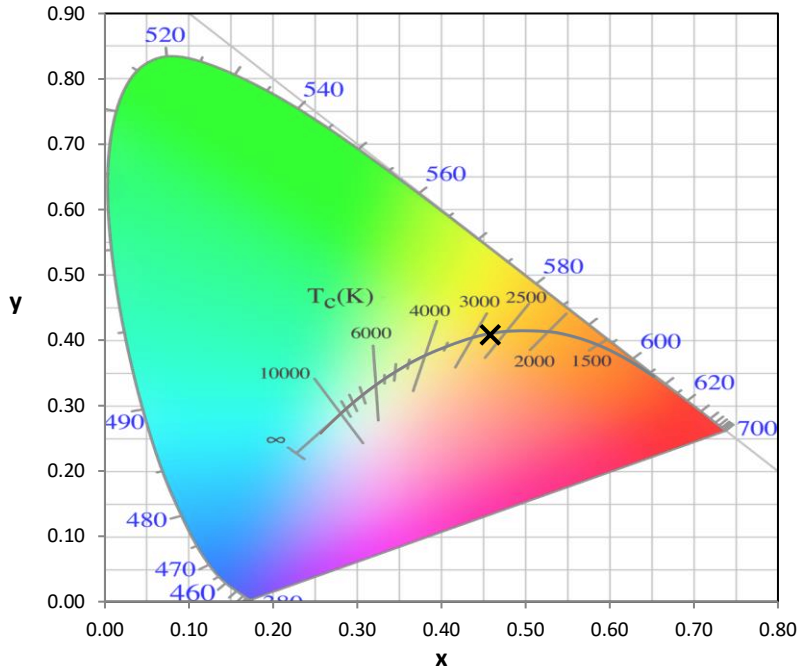
Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

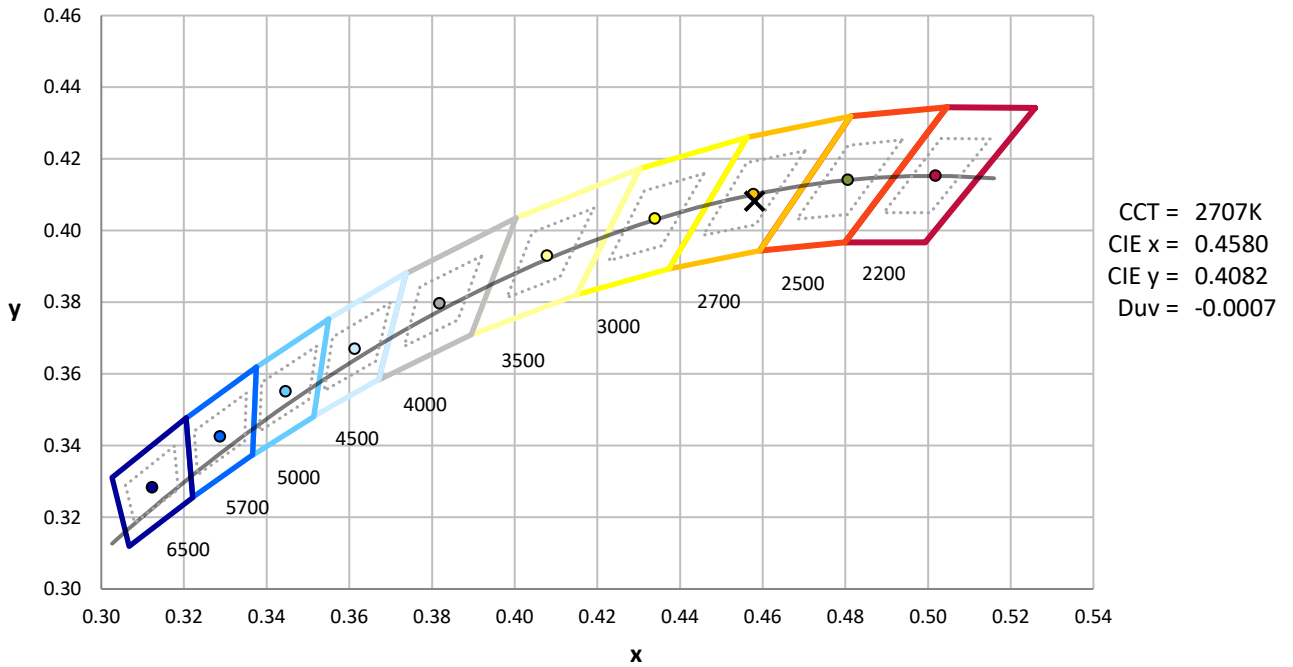
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



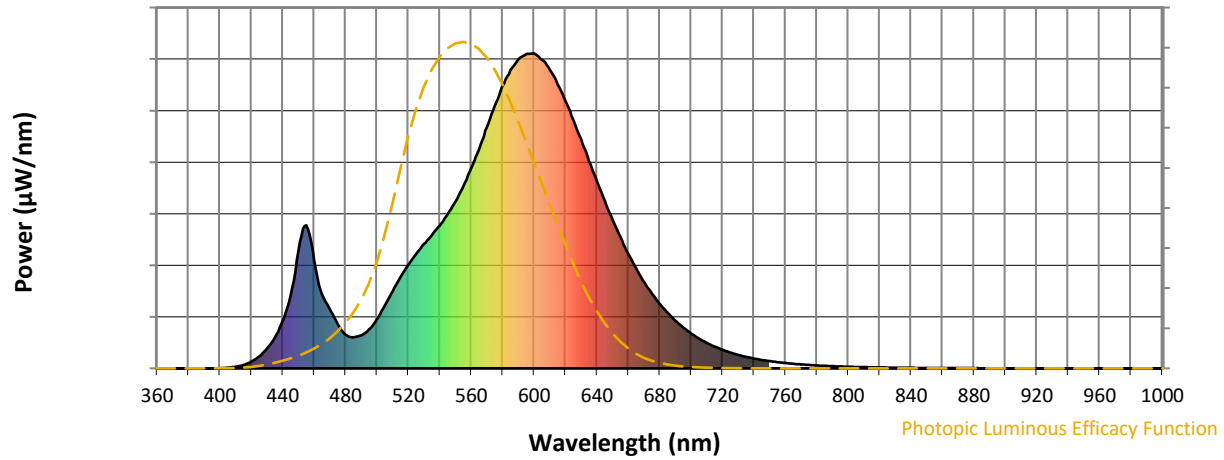
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

Photopic Flux vs. Wavelength

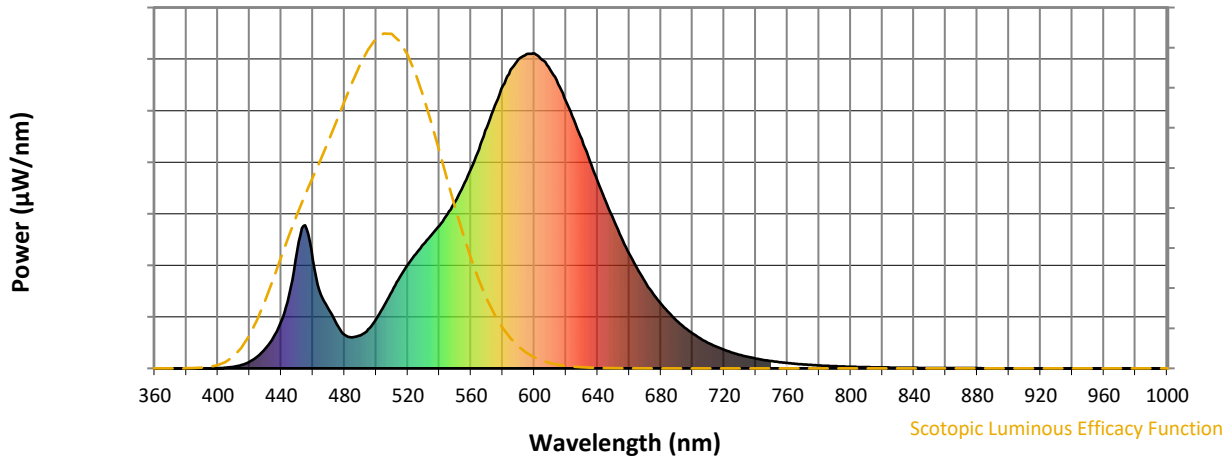


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-3

Scotopic Flux vs. Wavelength



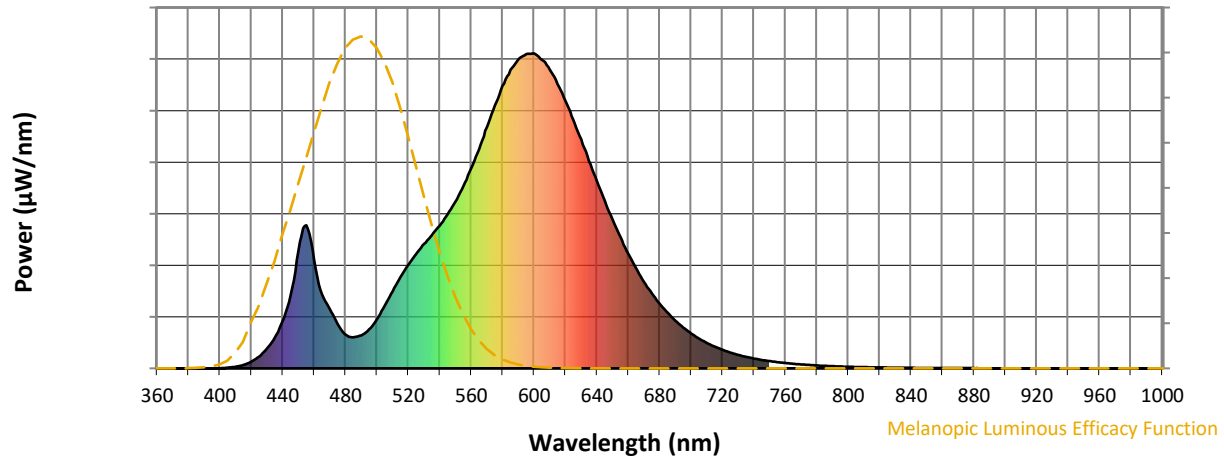
Scotopic Lumens: NR

S/P: 1.12

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

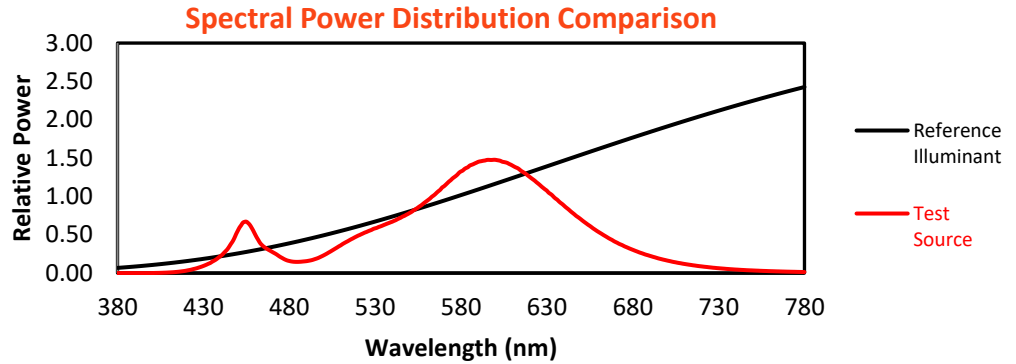
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-3

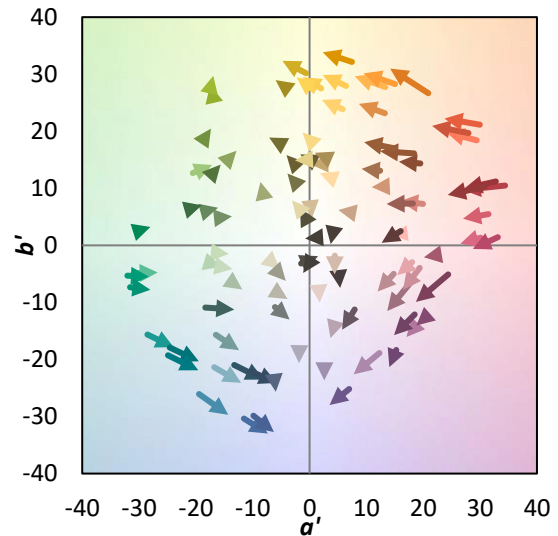
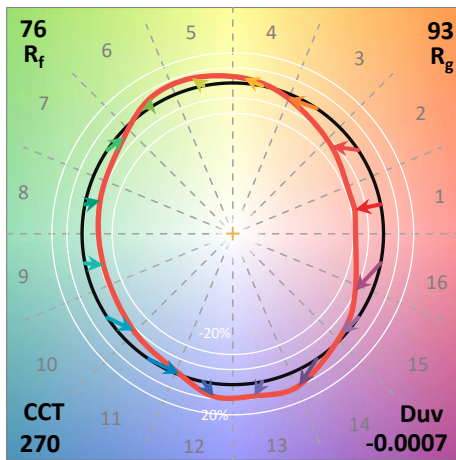
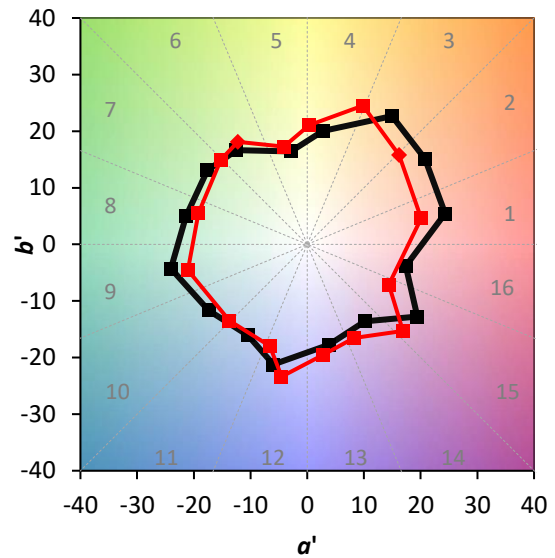
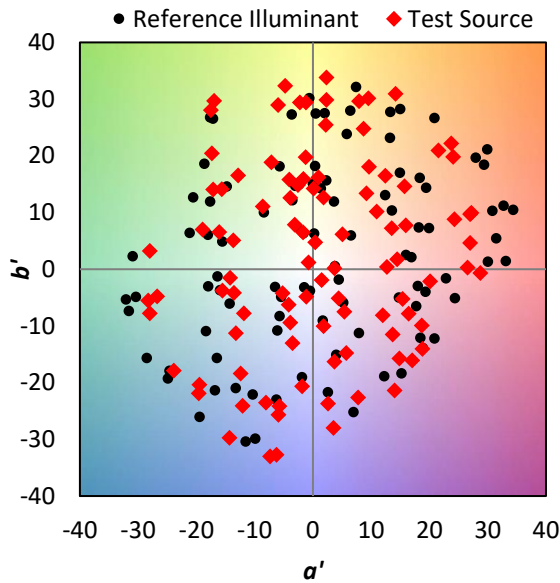
TM-30-18

Summary

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



Color Vector Graphics

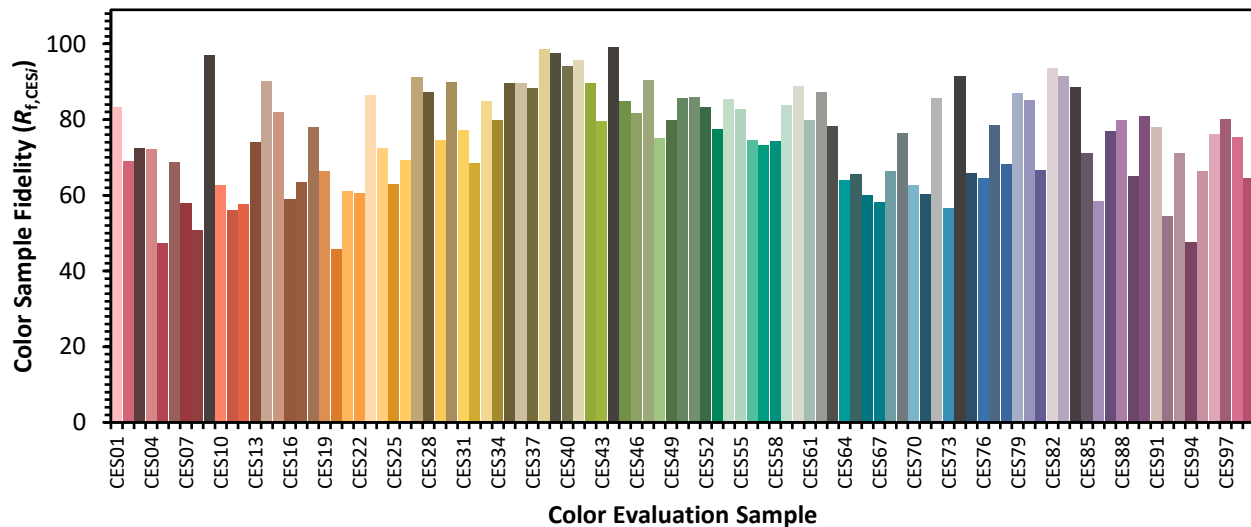


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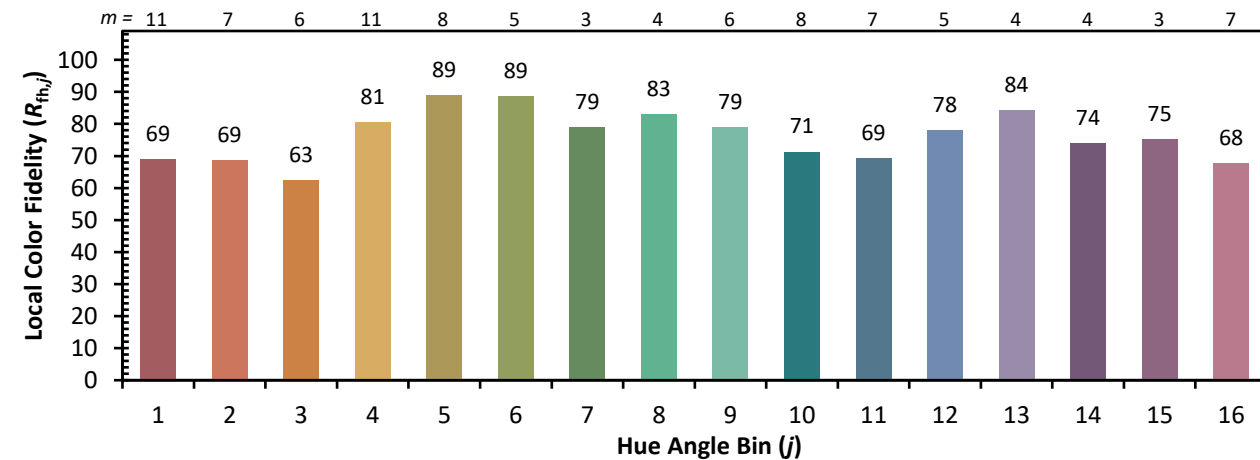
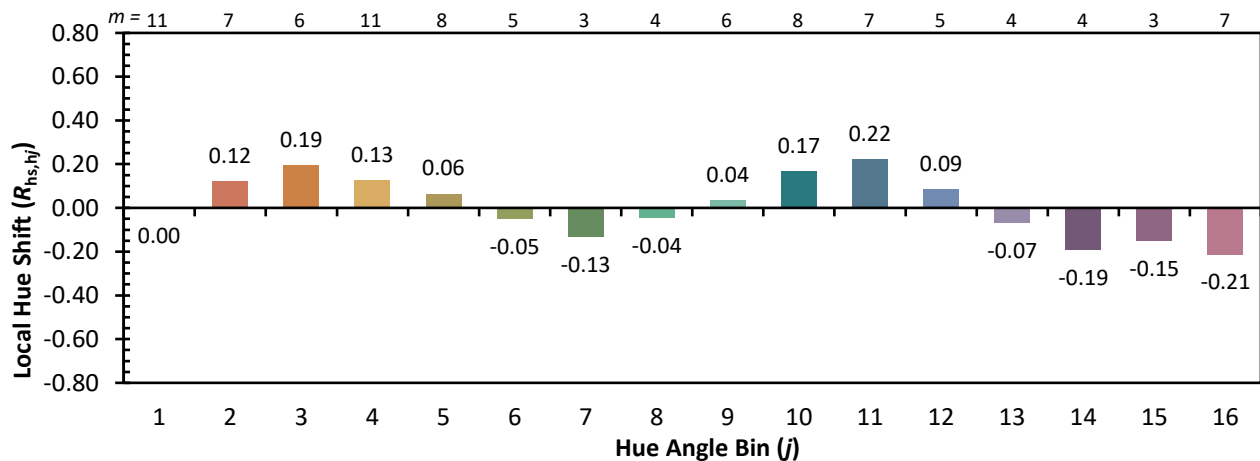
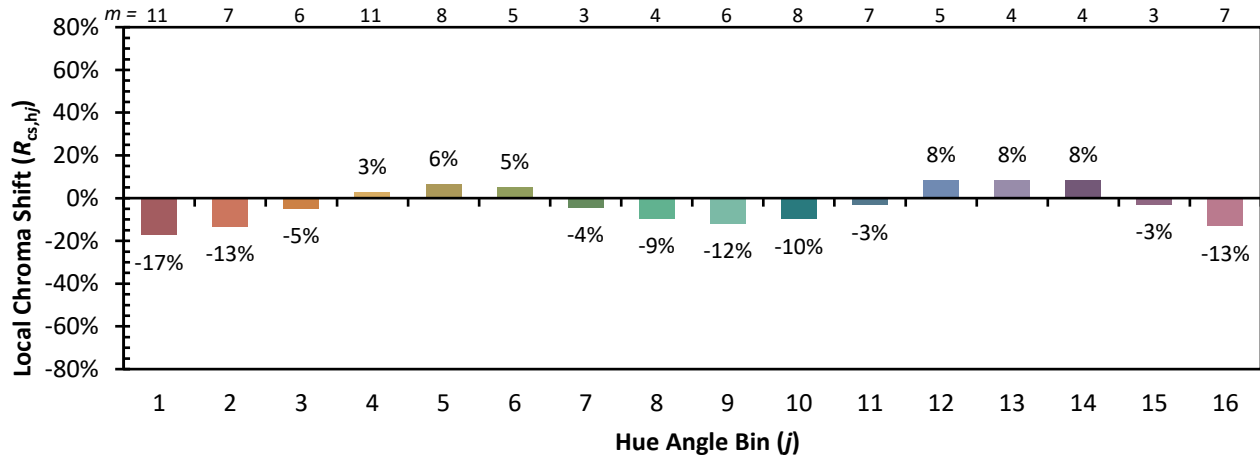
TM-30-18

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

CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



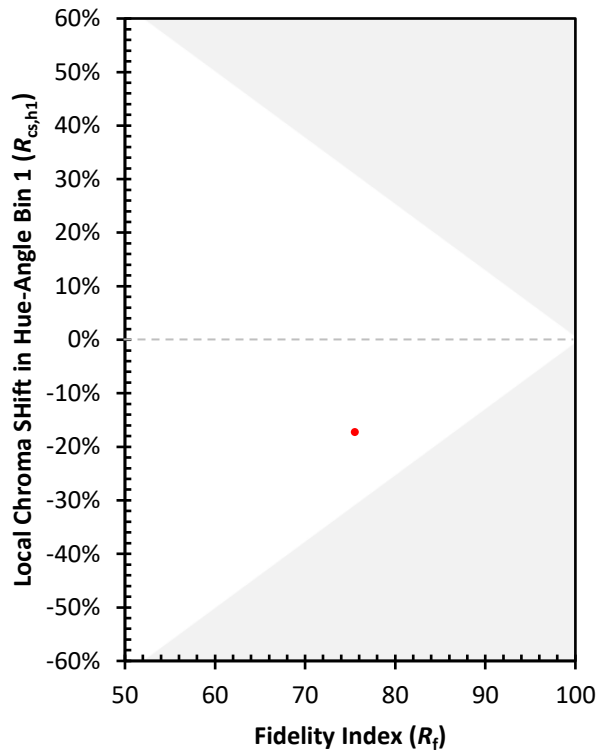
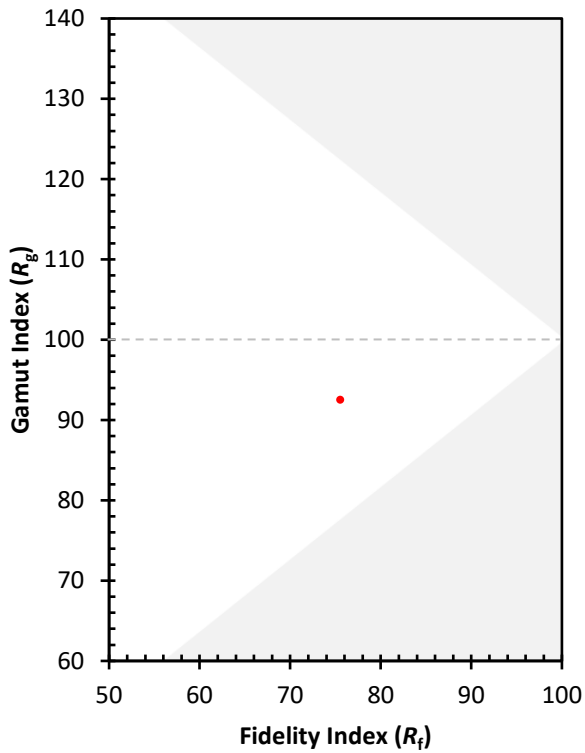
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)