

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: P856140

Luminaire Tested: **FFX-CLB-70-750-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856140
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-750-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

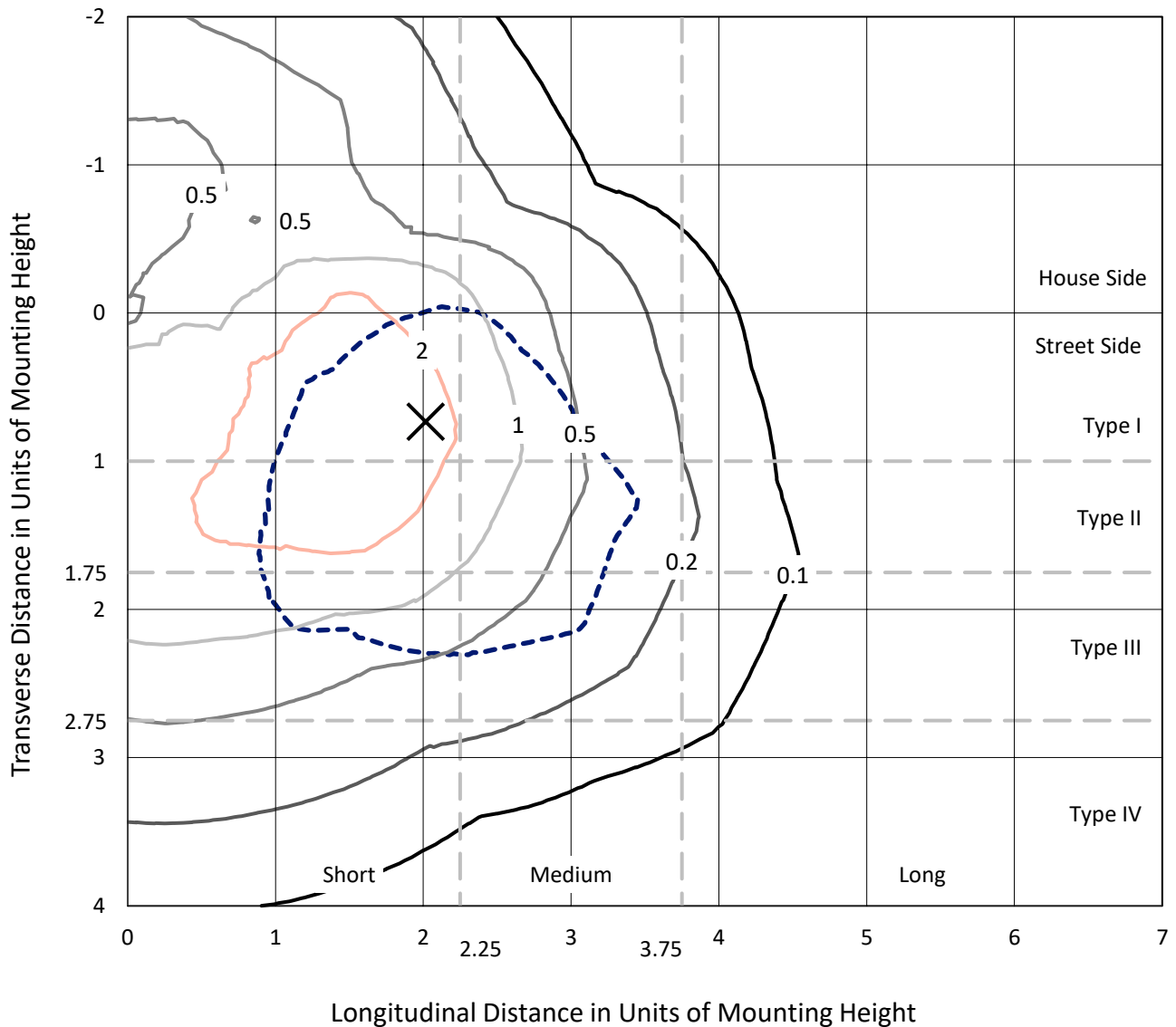
Lumens per Lamp: N/A
Luminaire Lumens: 10910.7 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G3

Input Watts (W): 70.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 7.1%%
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

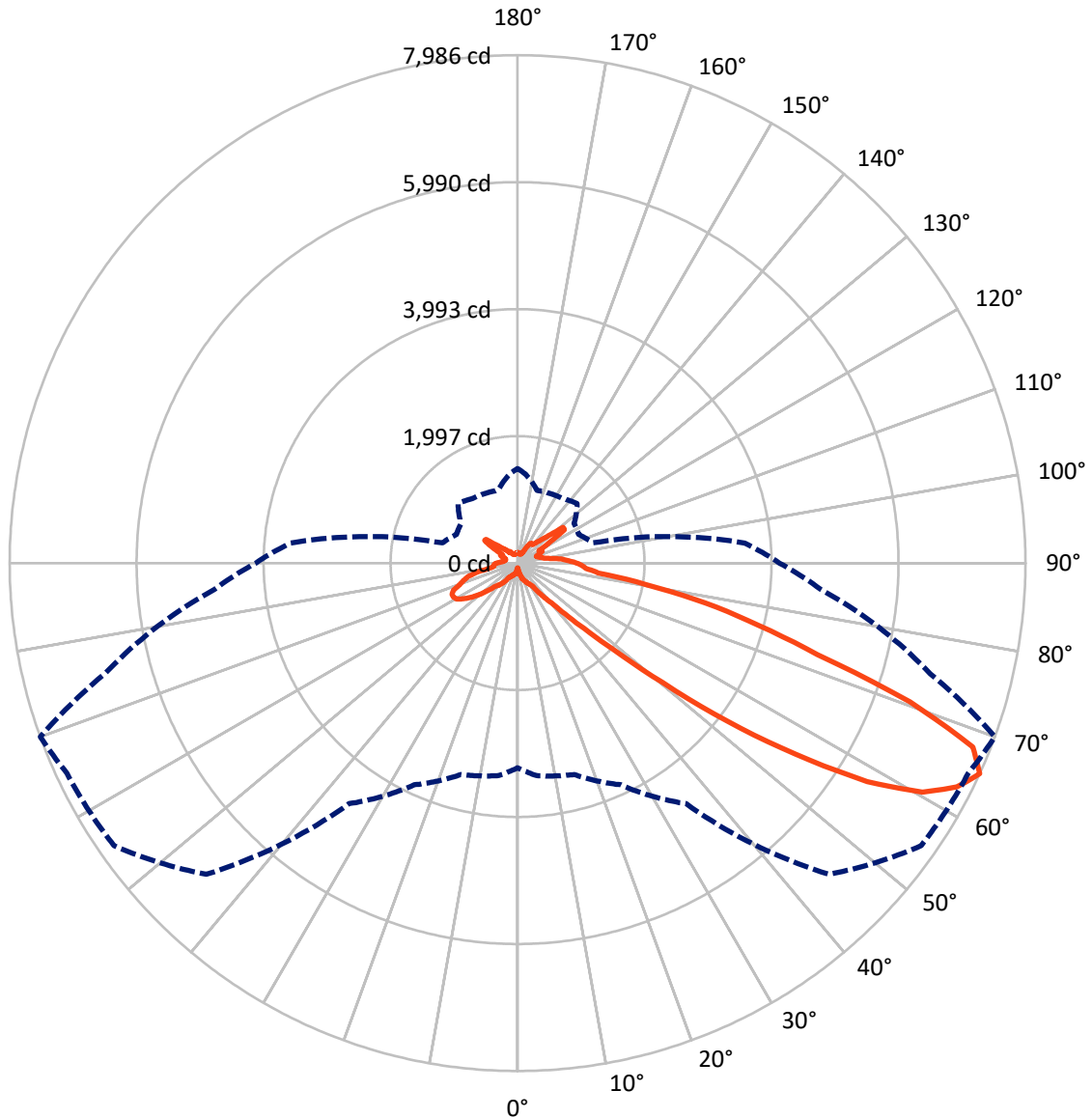
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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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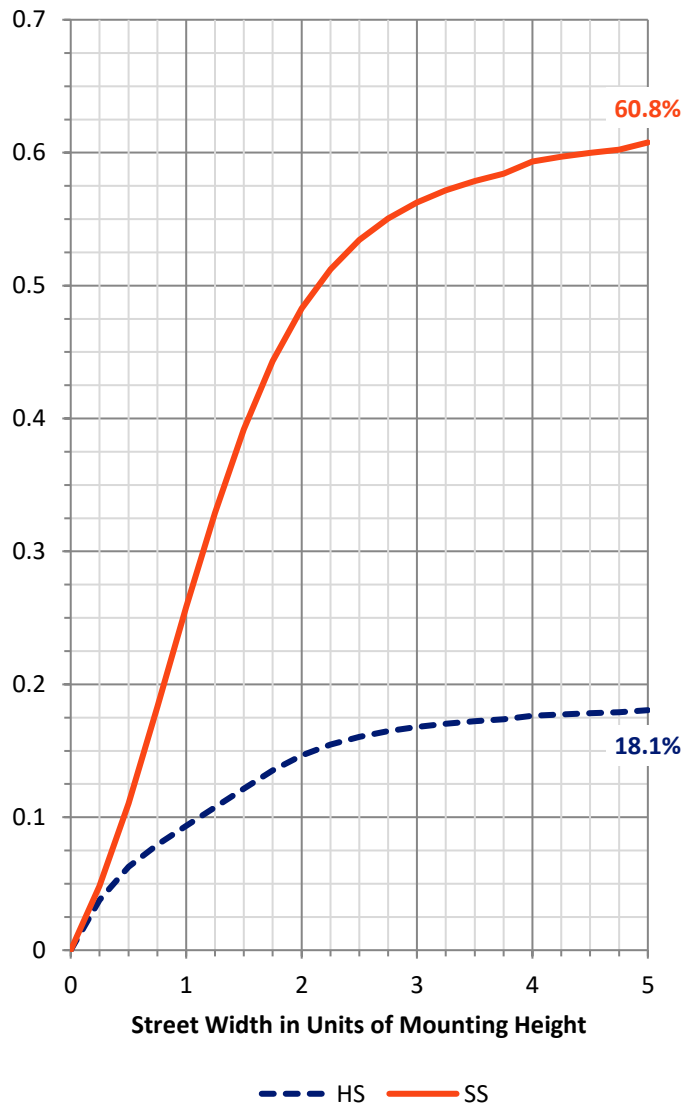
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2055.2	733.2	2788.4
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	6853.5	1268.8	8122.3
	% Fixture	62.8	11.6	74.4
Total	Lumens	8908.7	2002.0	10910.7
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.1
10°-20°	57.2	0.5
20°-30°	121.3	1.1
30°-40°	247.1	2.3
40°-50°	628.3	5.8
50°-60°	2019.2	18.5
60°-70°	3295.3	30.2
70°-80°	1876.0	17.2
80°-90°	652.8	6.0
90°-100°	406.2	3.7
100°-110°	258.7	2.4
110°-120°	284.6	2.6
120°-130°	481.3	4.4
130°-140°	283.7	2.6
140°-150°	152.7	1.4
150°-160°	77.2	0.7
160°-170°	42.2	0.4
170°-180°	15.2	0.1
0°-90°	8908.7	81.7
0°-180°	10910.7	100.0

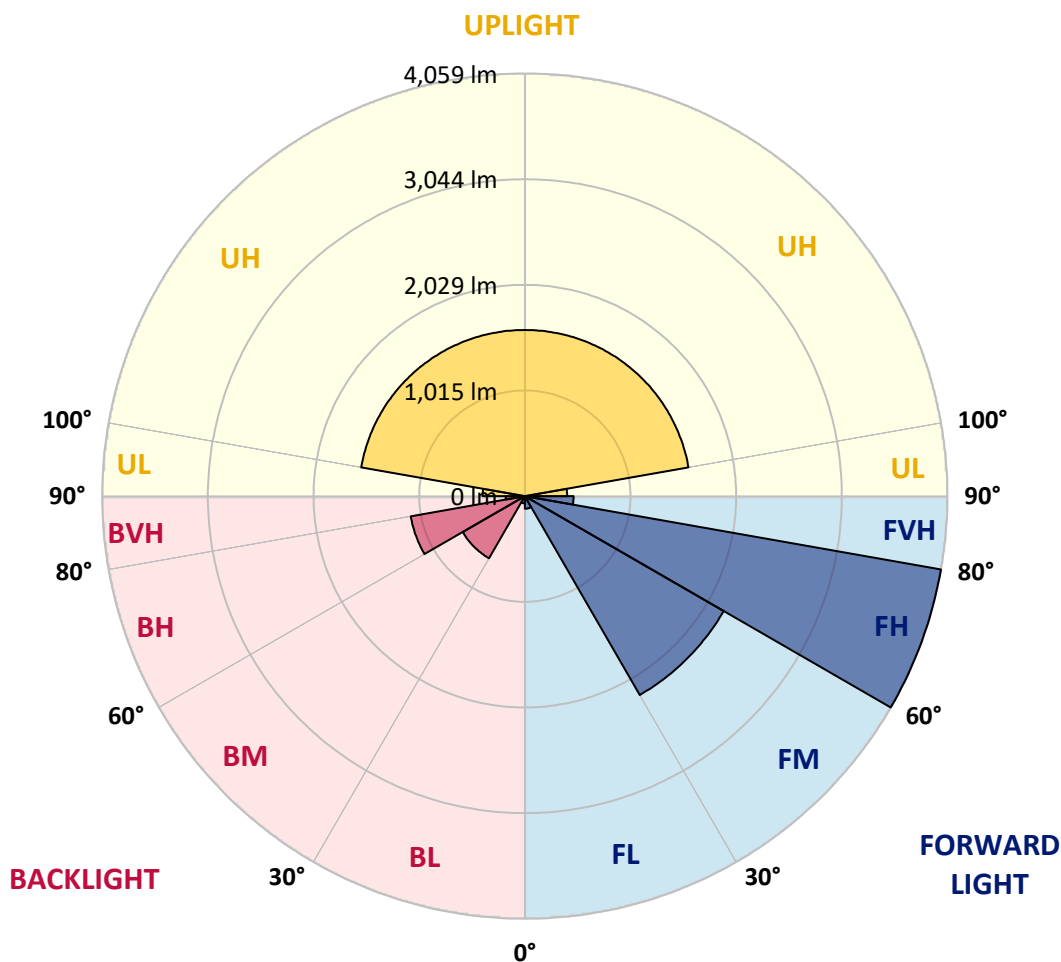


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	121.1	1.1			
FM (30°-60°)	2205.7	20.2			
FH (60°-80°)	4058.6	37.2			G2/5000
FVH (80°-90°)	468.1	4.3			G3/500
BL (0°-30°)	69.1	0.6	B0/110		
BM (30°-60°)	688.8	6.3	B1/1000		
BH (60°-80°)	1112.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	184.7	1.7			G2/225
UL (90°-100°)	406.2	3.7		U3/500	
UH (100°-180°)	1595.7	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°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	86.6	86.6	88.8	88.8	88.8	86.6	85.5	83.2	83.2	83.2	82.1
5°	112.4	111.3	112.4	115.8	116.9	113.6	111.3	107.9	107.9	106.8	106.8
7.5°	151.8	150.7	148.4	145.0	146.2	149.5	154.0	145.0	142.8	137.2	134.9
10°	190.0	187.8	190.0	184.4	178.8	170.9	175.4	173.1	168.7	163.0	158.5
12.5°	231.6	232.7	237.2	232.7	223.7	211.4	209.1	203.5	199.0	197.9	191.1
15°	274.3	275.5	280.0	278.8	269.8	253.0	246.2	240.6	238.4	231.6	217.0
17.5°	296.8	298.0	299.1	300.2	294.6	281.1	271.0	260.8	257.5	255.2	237.2
20°	308.1	305.8	308.1	312.6	317.1	305.8	295.7	290.1	286.7	278.8	255.2
22.5°	326.1	323.8	322.7	326.1	339.6	331.7	321.6	315.9	312.6	302.4	266.5
25°	345.2	342.9	346.3	344.0	360.9	357.5	347.4	341.8	337.3	324.9	283.3
27.5°	366.5	364.3	367.7	365.4	378.9	381.2	374.4	369.9	363.2	345.2	295.7
30°	384.5	382.3	385.6	384.5	398.0	405.9	402.5	401.4	391.3	369.9	317.1
32.5°	399.1	398.0	405.9	409.3	412.6	430.6	428.4	438.5	427.3	401.4	348.5
35°	432.9	436.2	457.6	480.1	483.5	519.4	523.9	561.0	549.8	516.1	452.0
37.5°	669.0	656.6	635.3	613.9	606.0	675.7	685.8	723.0	694.8	631.9	528.4
40°	712.8	692.6	667.9	651.0	653.2	778.0	756.7	897.2	817.4	723.0	645.4
42.5°	676.9	670.1	756.7	797.2	767.9	950.1	914.1	1181.7	1090.6	859.0	779.2
45°	848.9	835.4	865.7	906.2	915.2	1250.3	1225.5	1505.5	1468.4	1073.7	999.5
47.5°	971.4	959.1	999.5	1136.7	1254.8	1616.8	1751.7	2155.4	2024.9	1525.7	1353.7
50°	1339.1	1336.8	1461.6	1624.7	1831.6	2352.1	2710.8	3163.9	2953.6	2159.9	1856.3
52.5°	1702.3	1706.8	1859.7	2148.6	2363.4	3283.1	3792.4	4109.5	4137.6	2816.5	2406.1
55°	1976.6	2004.7	2189.1	2673.7	2998.6	4111.7	4772.8	5019.1	5300.2	3805.9	2978.4
57.5°	2511.8	2554.5	2729.9	3204.4	3658.6	5143.9	6036.6	6063.6	6483.0	4903.3	3592.3
60°	2979.5	3079.6	3141.4	3572.0	4191.6	6129.9	6975.4	6921.5	7315.0	5812.9	4215.2
62.5°	3124.5	3239.2	3297.7	3756.4	4613.2	6683.1	7413.9	7481.4	7752.3	6451.5	4596.3
65°	3219.0	3353.9	3441.6	3847.5	4617.7	6919.2	7746.7	7818.7	7986.2	6719.1	4786.3
67.5°	3170.6	3342.7	3455.1	3816.0	4374.8	6737.1	7680.4	7542.1	7719.7	6495.3	4573.8
70°	2768.1	2948.0	3061.6	3330.3	3657.5	5664.4	6621.3	6389.6	6545.9	5421.6	3760.9
72.5°	2255.4	2344.3	2414.0	2561.3	2756.9	4178.1	5031.4	4839.2	4932.5	4079.1	2818.7
75°	1852.9	1879.9	1966.5	2050.8	2083.4	3056.0	3985.8	3810.4	3919.5	3105.4	2243.1
77.5°	1345.8	1361.6	1485.3	1498.7	1490.9	2096.9	3141.4	2987.4	3022.2	2308.3	1674.1
80°	781.4	811.8	973.7	965.8	952.3	1291.9	2211.6	2149.7	2041.8	1567.3	1159.2
82.5°	550.9	581.3	655.5	672.4	663.4	927.6	1435.8	1395.3	1278.4	1090.6	801.7
85°	580.2	583.5	586.9	594.8	580.2	827.5	1099.6	1079.4	1080.5	901.7	661.1
87.5°	572.3	585.8	591.4	594.8	580.2	785.9	1022.0	996.2	1008.5	856.7	642.0
90°	502.6	527.3	529.6	535.2	527.3	701.6	917.5	892.7	908.5	772.4	584.7
92.5°	410.4	423.9	439.6	461.0	452.0	600.4	780.3	762.3	781.4	669.0	513.8
95°	389.0	403.6	413.8	428.4	414.9	547.6	705.0	669.0	684.7	585.8	443.0
97.5°	321.6	333.9	342.9	348.5	338.4	431.7	540.8	516.1	514.9	453.1	354.2
100°	274.3	282.2	290.1	295.7	286.7	357.5	428.4	419.4	421.6	374.4	304.7
102.5°	260.8	265.3	277.7	278.8	268.7	326.1	385.6	382.3	386.8	346.3	285.6
105°	255.2	258.6	268.7	265.3	256.4	304.7	355.3	357.5	357.5	322.7	267.6
107.5°	238.4	244.0	255.2	249.6	245.1	281.1	327.2	319.3	321.6	300.2	254.1
110°	236.1	240.6	251.9	247.4	244.0	274.3	314.8	312.6	315.9	296.8	260.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	293.5	289.0	298.0	289.0	294.6	320.4	363.2	358.7	368.8	362.0	326.1
115°	362.0	364.3	373.3	355.3	360.9	386.8	410.4	418.3	427.3	417.1	380.0
117.5°	335.1	354.2	342.9	340.7	336.2	356.4	353.0	373.3	382.3	374.4	359.8
120°	358.7	382.3	349.7	332.8	326.1	376.7	401.4	400.3	393.5	377.8	347.4
122.5°	536.3	539.7	541.9	592.5	574.5	624.0	638.6	619.5	619.5	639.8	577.9
125°	836.5	839.9	837.6	860.1	847.8	895.0	914.1	913.0	901.7	891.6	830.9
127.5°	845.5	845.5	837.6	825.3	836.5	882.6	883.7	926.5	911.8	884.9	828.6
130°	590.3	594.8	622.9	631.9	647.6	657.7	646.5	683.6	690.3	685.8	647.6
132.5°	489.1	497.0	527.3	538.6	548.7	549.8	545.3	574.5	581.3	581.3	564.4
135°	422.8	431.7	435.1	429.5	444.1	455.4	464.4	488.0	485.7	481.2	466.6
137.5°	368.8	372.2	362.0	349.7	357.5	390.1	408.1	432.9	431.7	423.9	399.1
140°	311.4	312.6	306.9	301.3	309.2	337.3	354.2	381.2	377.8	372.2	342.9
142.5°	236.1	239.5	254.1	265.3	284.5	342.9	333.9	357.5	374.4	387.9	320.4
145°	248.5	244.0	241.7	254.1	278.8	363.2	337.3	367.7	375.5	384.5	306.9
147.5°	286.7	289.0	285.6	277.7	311.4	338.4	323.8	350.8	355.3	353.0	321.6
150°	224.9	228.2	229.4	226.0	267.6	266.5	251.9	272.1	274.3	274.3	253.0
152.5°	183.3	184.4	182.1	179.9	206.9	202.4	195.6	202.4	201.3	200.1	195.6
155°	174.3	174.3	172.0	173.1	191.1	186.6	182.1	186.6	184.4	181.0	176.5
157.5°	160.8	161.9	161.9	165.3	176.5	168.7	164.2	166.4	164.2	161.9	161.9
160°	151.8	151.8	152.9	157.4	164.2	156.3	152.9	154.0	152.9	150.7	151.8
162.5°	148.4	148.4	149.5	151.8	152.9	148.4	145.0	145.0	145.0	145.0	148.4
165°	146.2	146.2	146.2	147.3	147.3	143.9	142.8	143.9	145.0	146.2	150.7
167.5°	150.7	150.7	150.7	150.7	149.5	147.3	146.2	147.3	148.4	149.5	152.9
170°	157.4	156.3	156.3	155.2	154.0	151.8	150.7	149.5	149.5	150.7	151.8
172.5°	161.9	161.9	160.8	160.8	159.7	157.4	155.2	154.0	154.0	154.0	154.0
175°	167.5	167.5	167.5	167.5	166.4	164.2	163.0	160.8	160.8	160.8	160.8
177.5°	174.3	174.3	174.3	174.3	172.0	169.8	167.5	165.3	165.3	165.3	164.2
180°	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	81.0	79.8	76.5	75.3	74.2	72.0	69.7	68.6	67.5	67.5	68.6
5°	107.9	106.8	106.8	103.4	100.1	94.4	92.2	92.2	93.3	94.4	96.7
7.5°	136.0	138.3	140.5	134.9	124.8	111.3	103.4	105.7	111.3	115.8	115.8
10°	157.4	157.4	165.3	158.5	141.7	124.8	113.6	111.3	112.4	113.6	114.7
12.5°	187.8	187.8	183.3	165.3	148.4	131.5	122.6	120.3	120.3	115.8	114.7
15°	210.3	203.5	187.8	170.9	156.3	139.4	129.3	125.9	122.6	119.2	118.1
17.5°	223.7	211.4	190.0	174.3	159.7	146.2	136.0	129.3	125.9	127.1	127.1
20°	239.5	226.0	206.9	190.0	172.0	154.0	141.7	131.5	128.2	129.3	128.2
22.5°	251.9	238.4	219.2	200.1	181.0	161.9	147.3	134.9	130.4	131.5	131.5
25°	266.5	255.2	235.0	212.5	188.9	170.9	156.3	141.7	134.9	133.8	133.8
27.5°	281.1	273.2	251.9	224.9	200.1	178.8	164.2	147.3	139.4	136.0	136.0
30°	300.2	291.2	269.8	237.2	210.3	190.0	174.3	156.3	145.0	139.4	138.3
32.5°	330.6	320.4	294.6	259.7	221.5	201.3	184.4	164.2	149.5	142.8	141.7
35°	429.5	413.8	373.3	332.8	271.0	224.9	196.8	170.9	154.0	145.0	143.9
37.5°	491.3	453.1	399.1	372.2	304.7	275.5	237.2	195.6	160.8	149.5	147.3
40°	591.4	538.6	471.1	418.3	296.8	301.3	277.7	244.0	191.1	157.4	154.0
42.5°	675.7	609.4	507.1	438.5	298.0	314.8	296.8	268.7	229.4	186.6	179.9
45°	833.1	747.7	589.2	471.1	305.8	335.1	312.6	283.3	248.5	219.2	215.9
47.5°	1125.5	1009.7	736.4	525.1	357.5	389.0	348.5	310.3	278.8	245.1	239.5
50°	1540.3	1402.1	906.2	567.8	446.4	512.7	439.6	375.5	339.6	314.8	311.4
52.5°	2018.2	1873.2	1031.0	646.5	554.3	665.6	581.3	507.1	459.9	459.9	466.6
55°	2573.6	2428.6	1131.1	755.6	687.0	834.3	743.2	682.5	660.0	755.6	781.4
57.5°	3124.5	2940.2	1198.5	866.9	842.1	1032.1	923.1	871.4	913.0	1196.3	1284.0
60°	3627.1	3322.4	1251.4	972.6	974.8	1189.6	1108.6	1105.2	1169.3	1531.4	1642.7
62.5°	3917.2	3502.3	1248.0	1033.3	1052.4	1287.4	1219.9	1237.9	1273.9	1587.6	1671.9
65°	4116.2	3587.8	1222.2	1060.3	1085.0	1322.2	1237.9	1207.5	1183.9	1405.4	1486.4
67.5°	3979.0	3387.6	1163.7	1020.9	1064.8	1271.6	1160.3	1073.7	1027.6	1140.1	1195.2
70°	3332.6	2825.5	1029.9	918.6	959.1	1071.5	964.7	879.2	830.9	891.6	917.5
72.5°	2524.1	2149.7	928.7	859.0	841.0	886.0	784.8	689.2	660.0	699.3	705.0
75°	2010.3	1682.0	854.5	776.9	706.1	749.9	626.3	510.5	493.6	493.6	484.6
77.5°	1507.7	1246.9	728.6	604.9	520.6	592.5	466.6	355.3	332.8	328.3	315.9
80°	1010.8	848.9	490.2	401.4	374.4	439.6	331.7	260.8	262.0	260.8	246.2
82.5°	706.1	655.5	398.0	349.7	320.4	346.3	300.2	250.7	248.5	250.7	235.0
85°	626.3	600.4	385.6	360.9	330.6	333.9	287.8	237.2	238.4	242.9	229.4
87.5°	601.5	572.3	386.8	348.5	322.7	309.2	260.8	219.2	226.0	230.5	219.2
90°	541.9	512.7	355.3	314.8	287.8	268.7	230.5	208.0	217.0	221.5	211.4
92.5°	470.0	439.6	295.7	277.7	271.0	271.0	241.7	221.5	227.1	229.4	220.4
95°	404.8	375.5	263.1	244.0	238.4	239.5	215.9	199.0	202.4	201.3	194.5
97.5°	327.2	309.2	229.4	217.0	211.4	209.1	193.4	181.0	187.8	192.3	186.6
100°	289.0	280.0	221.5	212.5	204.6	203.5	190.0	182.1	187.8	194.5	190.0
102.5°	269.8	263.1	211.4	199.0	193.4	191.1	182.1	173.1	178.8	185.5	182.1
105°	254.1	244.0	202.4	191.1	183.3	182.1	173.1	161.9	165.3	174.3	172.0
107.5°	240.6	233.9	201.3	188.9	178.8	178.8	168.7	159.7	160.8	164.2	164.2
110°	251.9	244.0	209.1	200.1	186.6	182.1	179.9	173.1	167.5	165.3	165.3



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 CATALOG NUMBER: FFX-CLB-70-750-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	311.4	296.8	262.0	251.9	229.4	213.6	199.0	185.5	176.5	173.1	170.9
115°	367.7	350.8	309.2	283.3	253.0	229.4	209.1	194.5	181.0	176.5	181.0
117.5°	378.9	333.9	269.8	248.5	230.5	215.9	204.6	193.4	183.3	186.6	183.3
120°	375.5	320.4	272.1	302.4	272.1	238.4	211.4	211.4	208.0	191.1	194.5
122.5°	577.9	539.7	481.2	463.2	377.8	345.2	294.6	251.9	210.3	186.6	175.4
125°	791.5	754.4	664.5	595.9	510.5	420.5	322.7	248.5	194.5	172.0	175.4
127.5°	796.0	762.3	676.9	561.0	448.6	359.8	268.7	220.4	190.0	175.4	173.1
130°	620.6	588.0	514.9	426.1	355.3	296.8	241.7	199.0	172.0	160.8	157.4
132.5°	537.4	508.2	440.7	359.8	308.1	262.0	215.9	173.1	155.2	147.3	148.4
135°	452.0	417.1	353.0	309.2	276.6	235.0	193.4	158.5	149.5	147.3	146.2
137.5°	383.4	358.7	313.7	280.0	248.5	211.4	169.8	148.4	145.0	147.3	145.0
140°	326.1	305.8	281.1	251.9	213.6	178.8	151.8	141.7	147.3	148.4	147.3
142.5°	281.1	260.8	235.0	195.6	177.6	161.9	155.2	147.3	147.3	146.2	145.0
145°	235.0	208.0	195.6	201.3	190.0	174.3	161.9	146.2	140.5	140.5	141.7
147.5°	269.8	241.7	226.0	213.6	192.3	169.8	150.7	136.0	133.8	138.3	137.2
150°	232.7	206.9	195.6	178.8	165.3	148.4	136.0	130.4	131.5	137.2	137.2
152.5°	185.5	167.5	160.8	156.3	149.5	139.4	132.7	130.4	132.7	134.9	134.9
155°	174.3	164.2	156.3	152.9	145.0	137.2	131.5	130.4	132.7	134.9	137.2
157.5°	163.0	159.7	149.5	146.2	139.4	136.0	132.7	132.7	133.8	136.0	138.3
160°	155.2	154.0	145.0	143.9	139.4	137.2	137.2	138.3	139.4	139.4	139.4
162.5°	150.7	150.7	147.3	145.0	143.9	142.8	146.2	147.3	146.2	146.2	146.2
165°	151.8	152.9	149.5	147.3	146.2	148.4	154.0	154.0	151.8	150.7	149.5
167.5°	152.9	154.0	151.8	150.7	150.7	152.9	155.2	154.0	152.9	151.8	150.7
170°	151.8	152.9	152.9	154.0	154.0	154.0	156.3	156.3	154.0	152.9	152.9
172.5°	154.0	155.2	156.3	157.4	158.5	157.4	158.5	158.5	158.5	158.5	159.7
175°	160.8	160.8	161.9	161.9	160.8	161.9	161.9	161.9	163.0	165.3	165.3
177.5°	164.2	164.2	163.0	163.0	161.9	163.0	163.0	163.0	163.0	164.2	163.0
180°	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

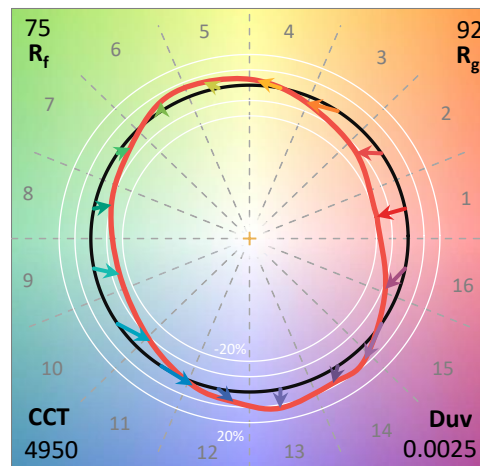
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-5
 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-100-750-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 4950
 CIE u': 0.2102
 CIE v': 0.4882
 Duv: 0.0025
 CIE x: 0.3471
 CIE y: 0.3583
 CIE z: 0.2946
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 571
 Purity: 11.64963
 Rf: 74.8
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



Test Conditions

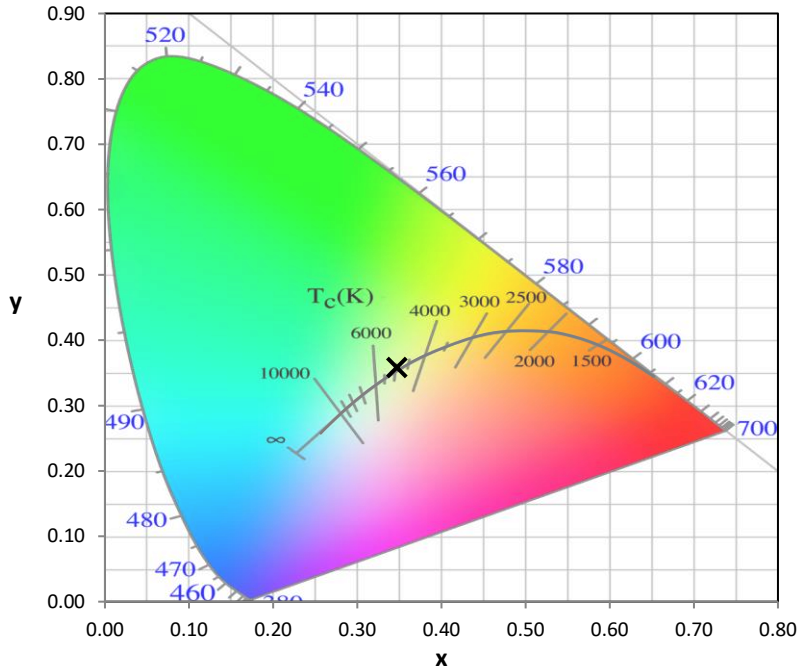
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

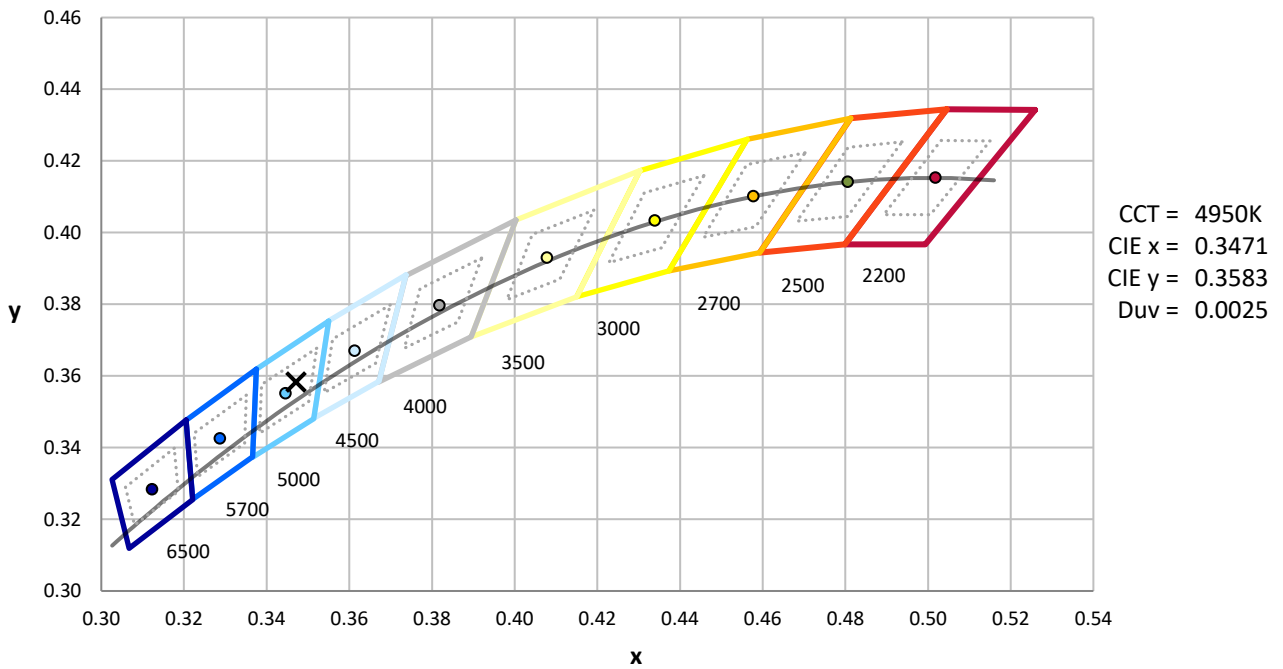
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



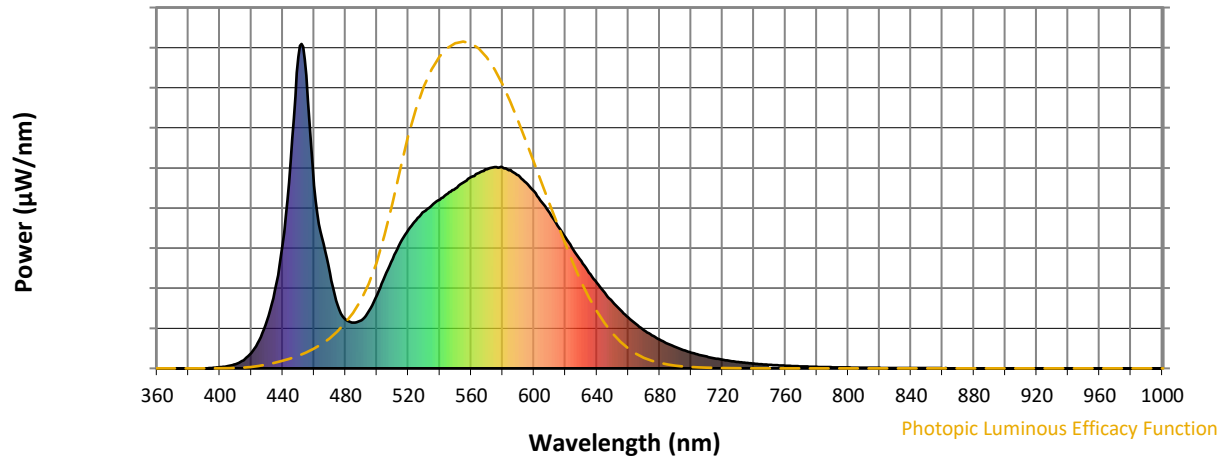
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

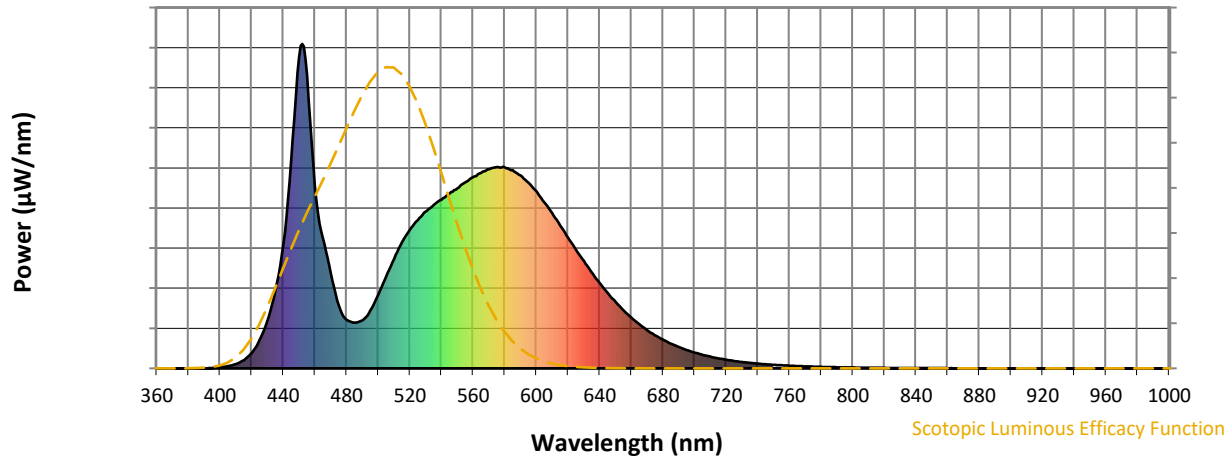


Photopic Lumens: NR

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



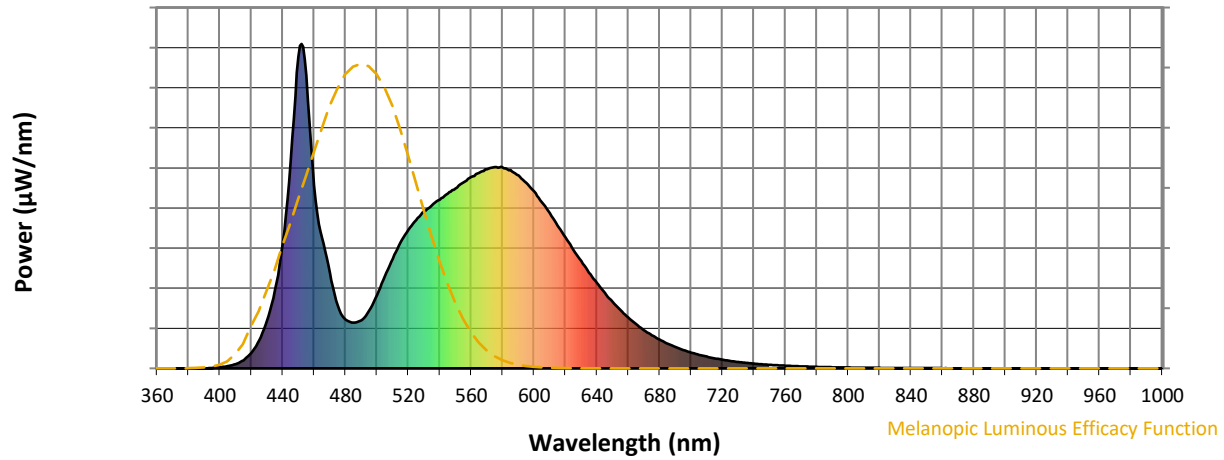
Scotopic Lumens: NR

S/P: 1.8

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

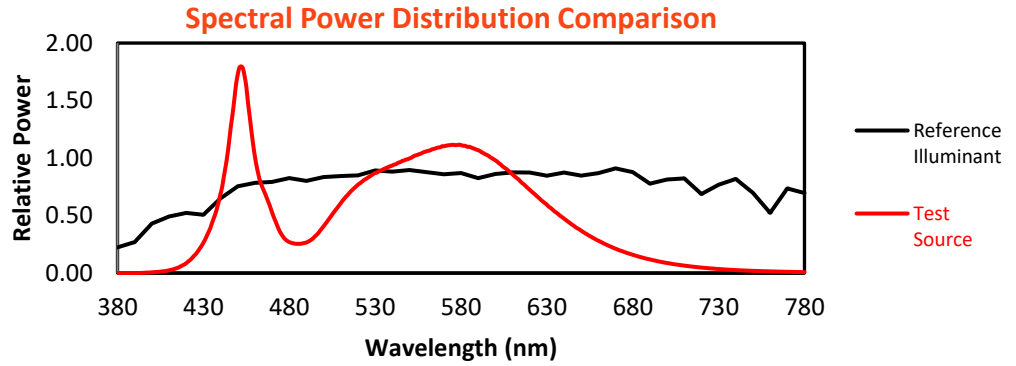
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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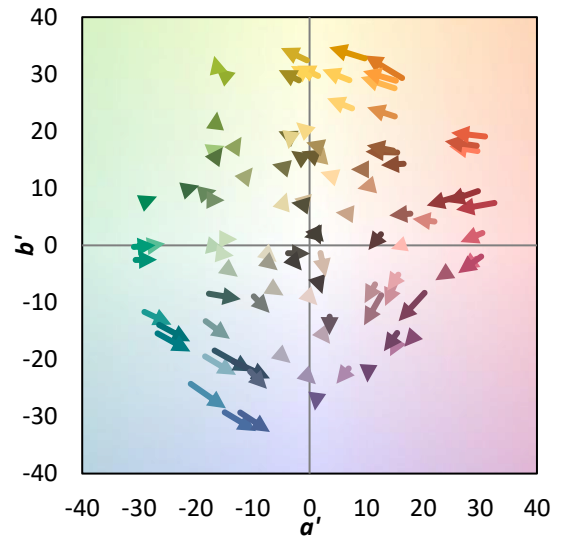
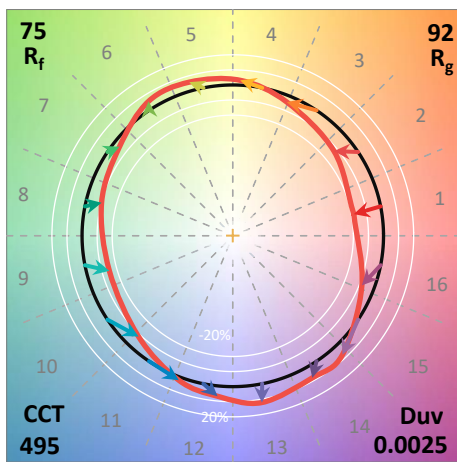
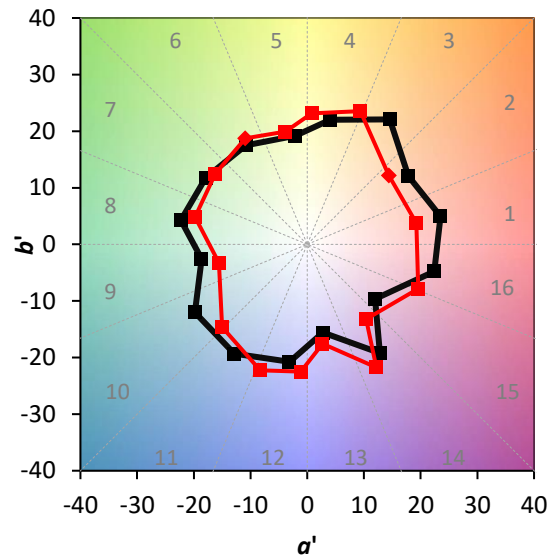
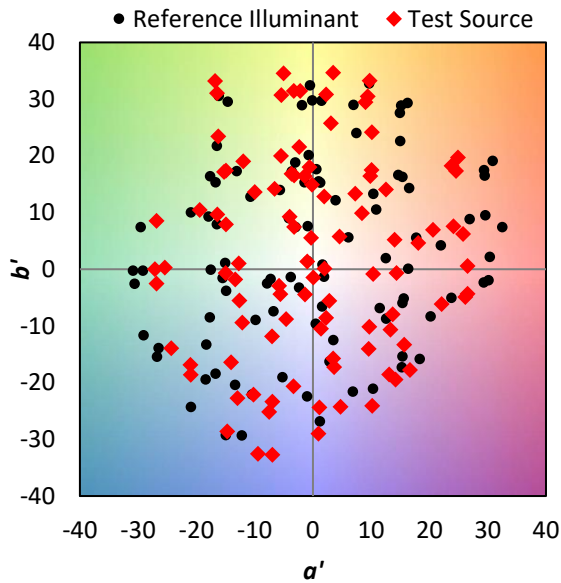
TM-30-18

Summary

$R_f = 74.8$
 $R_g = 92.4$
 CIE $R_a = 73.0$
 $R_g = -35.4$



Color Vector Graphics

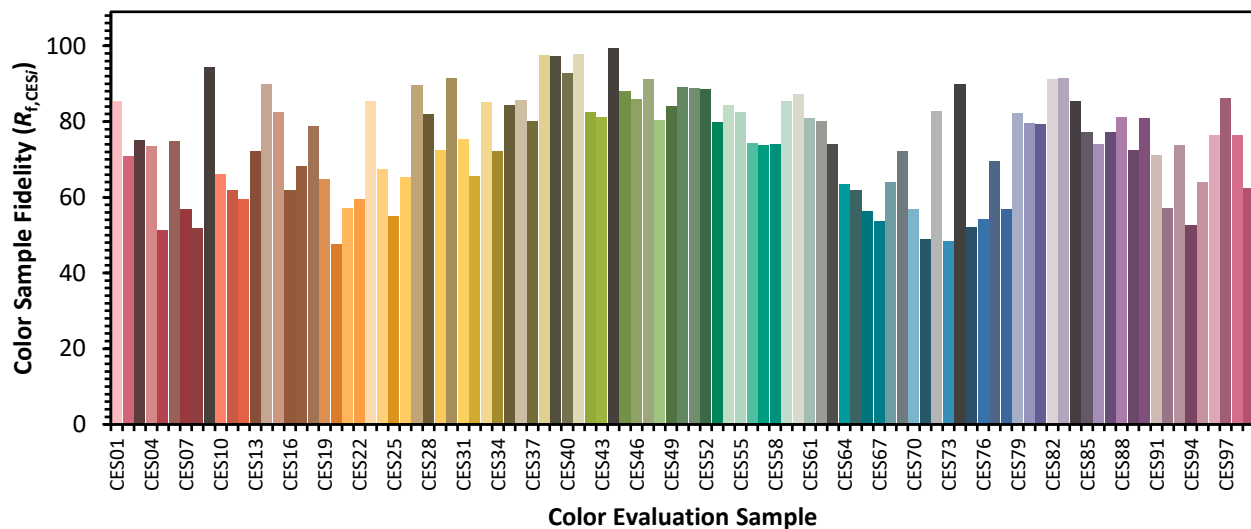


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TM-30-18

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

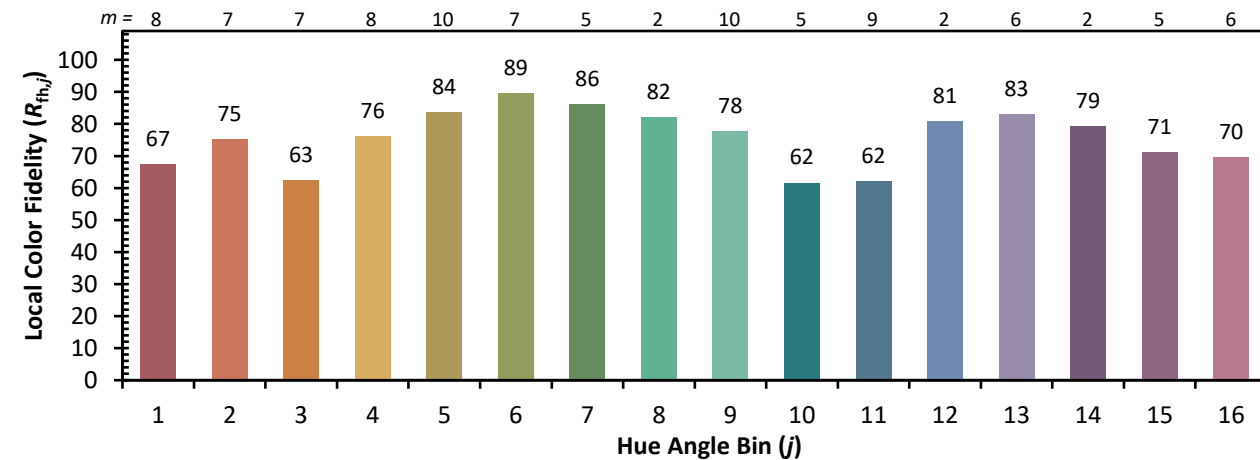
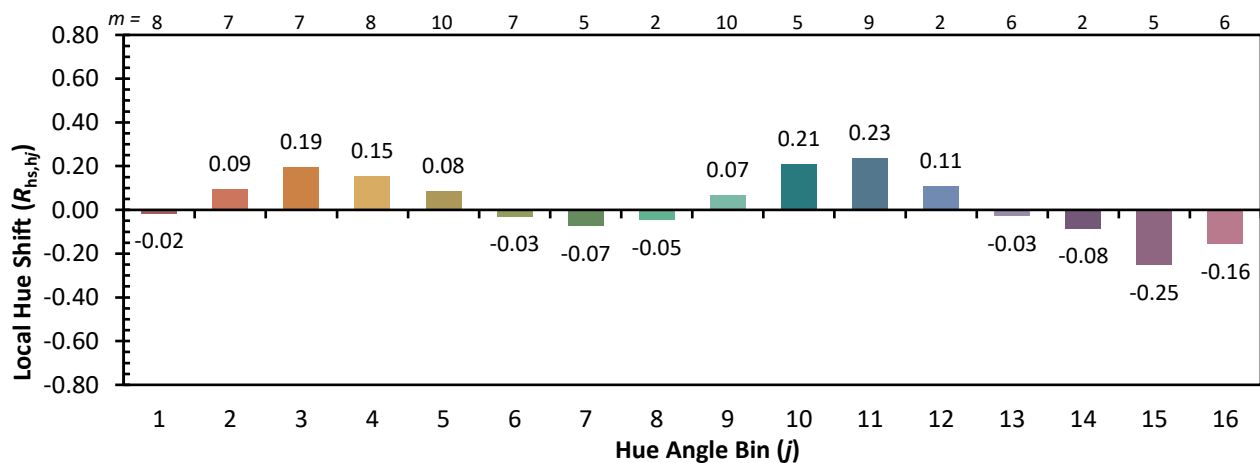
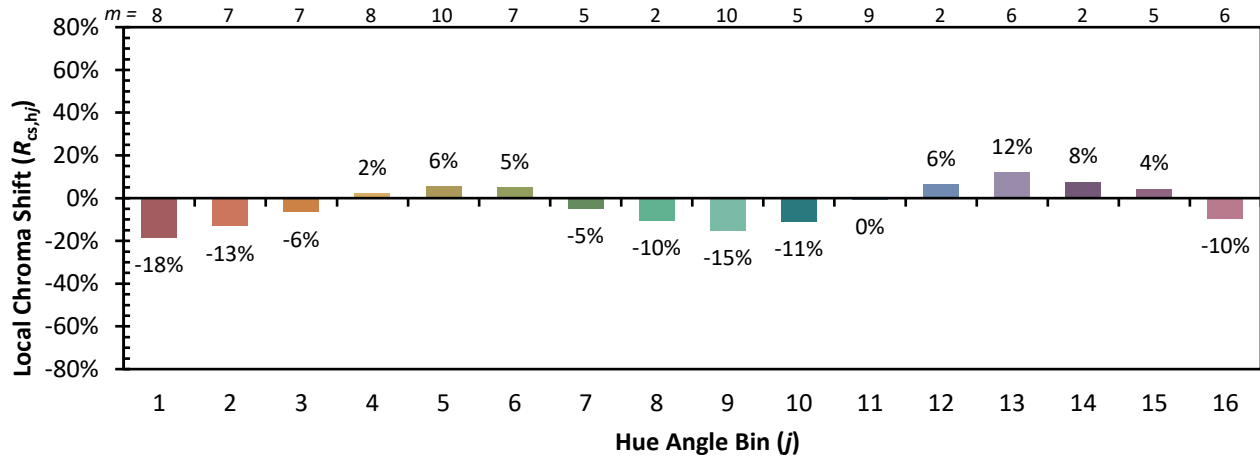
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



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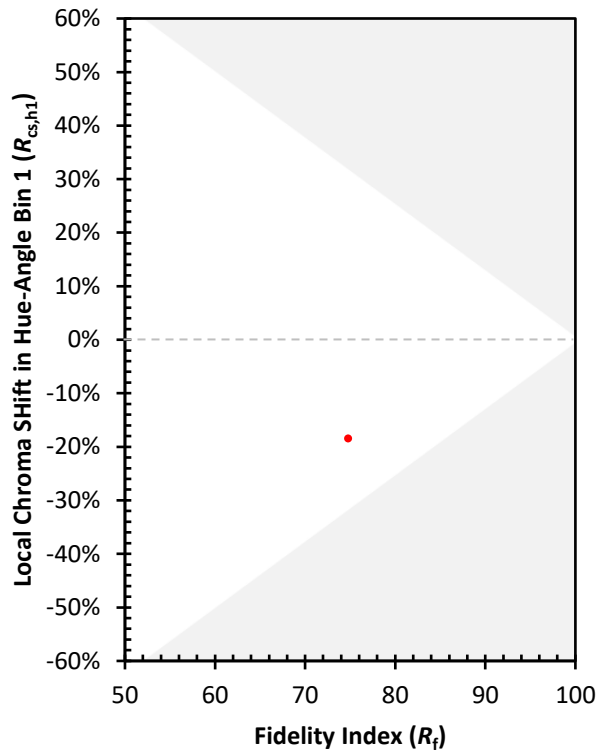
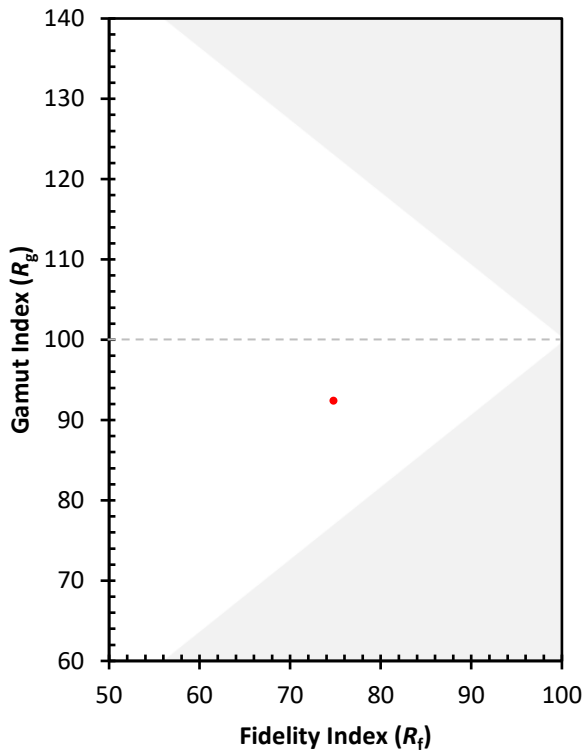
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)