

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: P856201

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856201
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-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

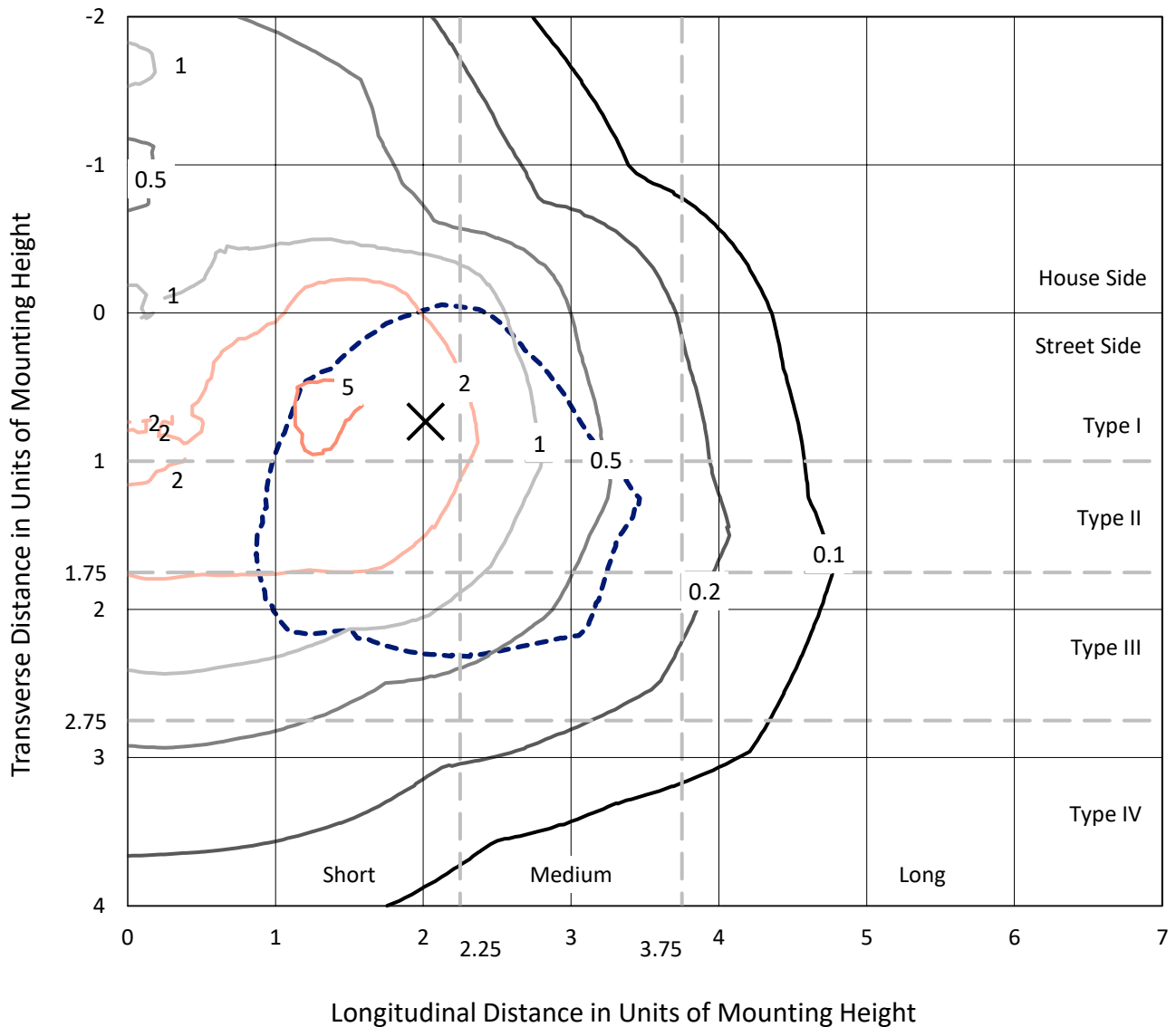
Lumens per Lamp: N/A
Luminaire Lumens: 12855.7 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

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

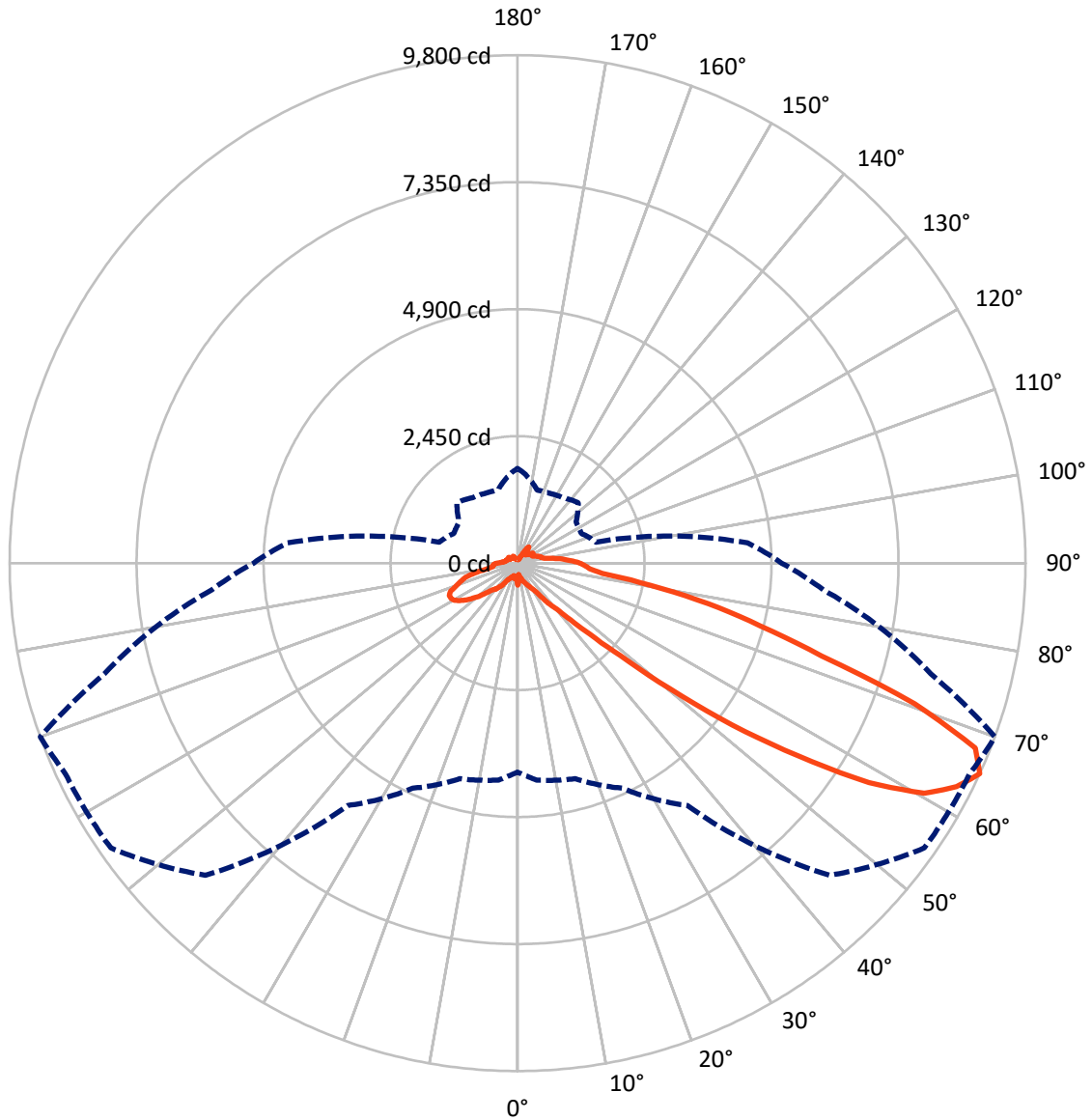
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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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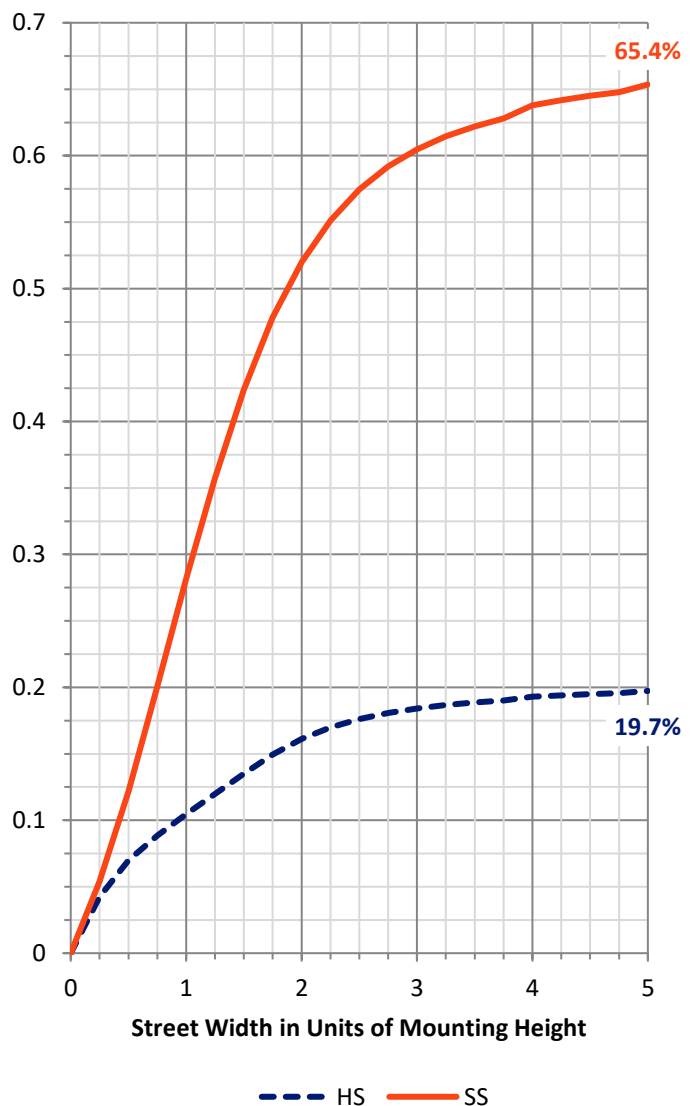
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2636.7	493.9	3130.7
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	8694.5	1030.5	9725.0
	% Fixture	67.6	8.0	75.6
Total	Lumens	11331.2	1524.4	12855.7
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	0.2
10°-20°	86.0	0.7
20°-30°	173.5	1.3
30°-40°	367.1	2.9
40°-50°	856.1	6.7
50°-60°	2551.3	19.8
60°-70°	4088.2	31.8
70°-80°	2348.6	18.3
80°-90°	832.9	6.5
90°-100°	491.3	3.8
100°-110°	296.8	2.3
110°-120°	223.1	1.7
120°-130°	189.0	1.5
130°-140°	125.4	1.0
140°-150°	117.8	0.9
150°-160°	52.2	0.4
160°-170°	21.6	0.2
170°-180°	7.1	0.1
0°-90°	11331.2	88.1
0°-180°	12855.7	100.0

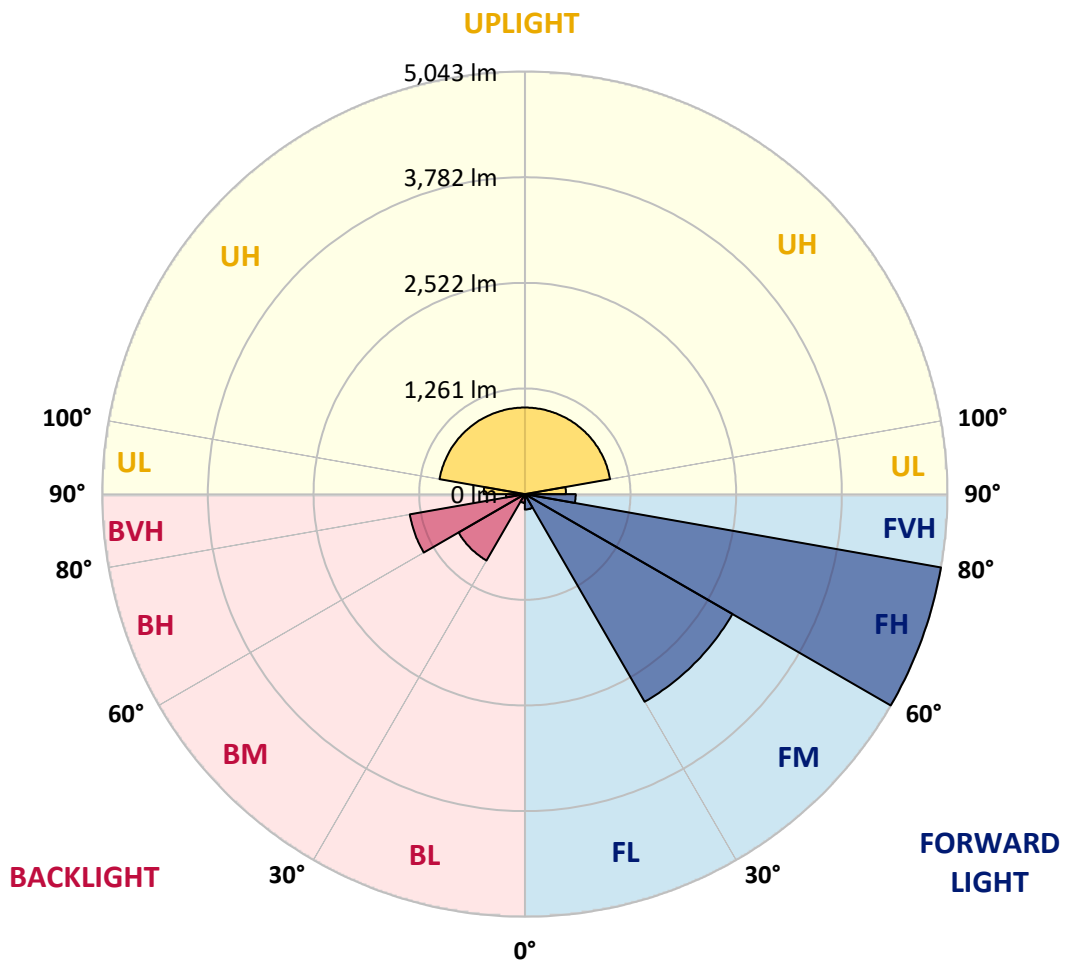


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.2	1.4			
FM (30°-60°)	2860.5	22.3			
FH (60°-80°)	5043.1	39.2			G3/7500
FVH (80°-90°)	606.8	4.7			G4/750
BL (0°-30°)	102.7	0.8	B0/110		
BM (30°-60°)	914.1	7.1	B1/1000		
BH (60°-80°)	1393.7	10.8	B3/2500		G3/2500
BVH (80°-90°)	226.2	1.8			G3/500
UL (90°-100°)	491.3	3.8		U3/500	
UH (100°-180°)	1033.2	8.0		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°	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.4
2.5°	355.6	352.9	359.7	365.1	371.9	362.4	346.1	362.4	367.9	384.2	396.5
5°	302.5	303.8	310.6	325.6	339.2	336.5	294.3	239.8	223.4	216.6	218.0
7.5°	299.7	298.4	294.3	292.9	301.1	331.1	327.0	287.5	257.5	231.6	205.7
10°	316.1	320.2	324.3	324.3	318.8	299.7	298.4	295.6	284.7	272.5	256.1
12.5°	391.0	396.5	400.6	386.9	369.2	350.1	335.2	310.6	299.7	292.9	280.7
15°	472.8	478.2	471.4	445.5	414.2	378.8	365.1	366.5	351.5	333.8	307.9
17.5°	516.4	513.6	485.0	455.1	430.5	403.3	384.2	371.9	366.5	359.7	333.8
20°	489.1	482.3	464.6	452.3	449.6	434.6	422.4	411.5	404.6	389.7	358.3
22.5°	468.7	468.7	466.0	463.2	479.6	472.8	467.3	452.3	442.8	423.7	377.4
25°	494.6	494.6	495.9	491.8	513.6	513.6	513.6	497.3	485.0	457.8	401.9
27.5°	531.3	530.0	534.1	531.3	550.4	554.5	562.7	550.4	532.7	500.0	429.2
30°	570.9	570.9	574.9	577.7	596.7	606.3	615.8	610.4	588.6	549.1	475.5
32.5°	613.1	611.7	624.0	637.6	648.5	666.2	670.3	683.9	662.1	615.8	543.6
35°	674.4	678.5	711.2	739.8	771.1	782.0	801.1	854.2	832.4	769.8	686.7
37.5°	975.5	955.1	946.9	914.2	910.1	974.1	997.3	1047.7	1004.1	919.6	792.9
40°	1034.1	1009.6	998.7	967.3	978.2	1110.4	1087.2	1268.4	1162.2	1027.3	945.5
42.5°	974.1	970.0	1098.1	1122.6	1109.0	1318.8	1273.9	1609.0	1495.9	1182.6	1091.3
45°	1175.8	1164.9	1219.4	1263.0	1297.0	1674.4	1647.2	2000.0	1951.0	1440.1	1350.2
47.5°	1327.0	1316.1	1378.8	1524.6	1723.5	2132.2	2291.6	2824.3	2658.1	1981.0	1776.6
50°	1779.3	1772.5	1941.5	2098.1	2426.5	3030.0	3467.4	4042.3	3798.4	2767.1	2391.1
52.5°	2207.1	2228.9	2426.5	2727.6	3075.0	4164.9	4788.9	5192.2	5189.5	3603.6	3069.5
55°	2513.7	2587.2	2820.2	3363.8	3846.1	5171.8	6013.8	6312.1	6562.8	4808.0	3738.5
57.5°	3109.1	3237.1	3460.6	3998.7	4621.4	6389.8	7591.4	7542.4	7993.4	6057.4	4466.0
60°	3720.8	3870.7	3945.6	4440.1	5257.6	7562.8	8675.9	8561.5	9015.2	7144.6	5231.7
62.5°	3911.5	4058.7	4132.2	4670.4	5716.7	8227.7	9175.9	9220.9	9502.9	7919.8	5685.4
65°	4031.4	4200.4	4306.6	4791.7	5707.2	8517.9	9580.6	9622.8	9799.9	8253.6	5919.7
67.5°	4009.6	4199.0	4335.2	4769.9	5391.1	8276.7	9479.8	9289.0	9526.1	8015.2	5673.1
70°	3576.4	3741.2	3877.5	4212.6	4500.1	6972.9	8201.8	7887.1	8132.3	6696.3	4684.0
72.5°	2922.4	2990.5	3109.1	3267.1	3410.2	5173.1	6256.3	5986.5	6128.2	5023.3	3509.6
75°	2400.6	2387.0	2493.2	2607.7	2562.7	3779.4	4949.7	4703.1	4835.3	3814.8	2799.8
77.5°	1779.3	1772.5	1926.5	1916.9	1848.8	2617.2	3923.8	3745.3	3763.0	2817.5	2096.8
80°	1069.5	1089.9	1239.8	1269.8	1189.4	1641.7	2801.1	2716.7	2590.0	1925.1	1470.1
82.5°	750.7	782.0	861.1	893.8	854.2	1198.9	1855.6	1797.0	1647.2	1396.5	1035.4
85°	765.7	771.1	780.7	783.4	765.7	1076.3	1440.1	1407.4	1397.9	1170.3	854.2
87.5°	765.7	777.9	786.1	784.8	753.4	1008.2	1328.4	1276.6	1288.9	1094.0	825.6
90°	686.7	708.5	707.1	711.2	685.3	911.5	1204.4	1162.2	1178.5	986.4	750.7
92.5°	561.3	576.3	591.3	619.9	581.8	775.2	1017.7	978.2	998.7	839.3	639.0
95°	521.8	535.4	545.0	560.0	521.8	689.4	900.6	852.9	861.1	712.5	540.9
97.5°	422.4	430.5	441.4	444.2	416.9	530.0	685.3	644.4	649.9	553.1	425.1
100°	354.2	361.0	370.6	370.6	352.9	438.7	542.2	520.4	517.7	452.3	359.7
102.5°	335.2	337.9	352.9	350.1	332.4	404.6	490.5	476.8	478.2	419.6	337.9
105°	329.7	329.7	344.7	337.9	322.9	385.6	459.1	455.1	453.7	399.2	324.3
107.5°	324.3	324.3	339.2	332.4	320.2	363.8	431.9	418.3	416.9	380.1	306.5
110°	302.5	306.5	322.9	314.7	305.2	343.3	396.5	386.9	386.9	358.3	292.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	268.4	271.1	286.1	279.3	272.5	305.2	351.5	339.2	340.6	321.5	273.8
115°	250.7	254.8	269.8	260.2	254.8	284.7	325.6	317.4	320.2	302.5	258.9
117.5°	252.0	253.4	264.3	265.7	254.8	279.3	301.1	303.8	307.9	297.0	262.9
120°	306.5	299.7	305.2	298.4	292.9	321.5	347.4	350.1	348.8	328.3	261.6
122.5°	309.3	295.6	310.6	301.1	295.6	327.0	355.6	362.4	355.6	337.9	267.0
125°	246.6	250.7	252.0	254.8	260.2	294.3	309.3	310.6	312.0	306.5	258.9
127.5°	216.6	215.3	208.5	209.8	222.1	252.0	262.9	271.1	265.7	262.9	233.0
130°	207.1	209.8	208.5	208.5	215.3	238.4	246.6	258.9	254.8	249.3	212.5
132.5°	190.7	193.5	205.7	220.7	218.0	226.2	228.9	241.1	242.5	242.5	213.9
135°	181.2	183.9	193.5	212.5	207.1	211.2	209.8	220.7	222.1	223.4	201.6
137.5°	185.3	186.7	181.2	183.9	188.0	205.7	211.2	222.1	222.1	216.6	188.0
140°	194.8	194.8	182.6	178.5	186.7	213.9	224.8	242.5	239.8	230.3	194.8
142.5°	179.8	182.6	189.4	197.6	215.3	290.2	290.2	324.3	335.2	337.9	235.7
145°	234.3	235.7	238.4	242.5	276.6	380.1	346.1	370.6	380.1	389.7	283.4
147.5°	269.8	272.5	269.8	258.9	290.2	325.6	309.3	320.2	331.1	333.8	284.7
150°	211.2	208.5	207.1	205.7	239.8	250.7	237.1	235.7	243.9	250.7	220.7
152.5°	154.0	152.6	151.2	149.9	179.8	173.0	163.5	163.5	166.2	167.6	155.3
155°	136.2	134.9	132.2	133.5	152.6	145.8	137.6	134.9	137.6	136.2	129.4
157.5°	111.7	109.0	109.0	114.4	124.0	115.8	110.4	106.3	107.6	106.3	107.6
160°	92.6	91.3	92.6	99.5	104.9	98.1	92.6	89.9	89.9	92.6	98.1
162.5°	83.1	81.7	83.1	85.8	88.6	81.7	77.7	77.7	79.0	84.5	95.4
165°	72.2	72.2	73.6	74.9	76.3	72.2	70.8	70.8	73.6	81.7	94.0
167.5°	69.5	69.5	69.5	69.5	69.5	68.1	66.8	70.8	73.6	77.7	85.8
170°	68.1	66.8	68.1	68.1	68.1	68.1	68.1	72.2	72.2	73.6	77.7
172.5°	69.5	69.5	69.5	70.8	73.6	74.9	73.6	76.3	74.9	74.9	74.9
175°	70.8	70.8	72.2	73.6	74.9	76.3	77.7	77.7	77.7	79.0	79.0
177.5°	70.8	70.8	72.2	73.6	74.9	72.2	69.5	68.1	66.8	66.8	66.8
180°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.4
2.5°	385.6	351.5	303.8	324.3	386.9	374.7	312.0	273.8	276.6	303.8	306.5
5°	224.8	231.6	262.9	328.3	340.6	282.0	227.5	219.4	264.3	327.0	339.2
7.5°	203.0	203.0	228.9	318.8	358.3	294.3	222.1	200.3	234.3	286.1	294.3
10°	245.2	237.1	239.8	272.5	287.5	235.7	198.9	189.4	208.5	215.3	212.5
12.5°	276.6	282.0	307.9	301.1	235.7	192.1	179.8	178.5	189.4	196.2	194.8
15°	297.0	287.5	268.4	246.6	224.8	200.3	182.6	171.7	159.4	154.0	154.0
17.5°	316.1	297.0	262.9	242.5	220.7	203.0	186.7	170.3	164.9	166.2	166.2
20°	339.2	316.1	284.7	261.6	235.7	211.2	190.7	173.0	168.9	170.3	168.9
22.5°	357.0	336.5	303.8	273.8	246.6	219.4	198.9	181.2	175.8	174.4	174.4
25°	378.8	361.0	327.0	290.2	257.5	231.6	213.9	193.5	183.9	181.2	181.2
27.5°	407.4	392.4	354.2	314.7	276.6	246.6	227.5	205.7	192.1	186.7	185.3
30°	451.0	430.5	388.3	339.2	299.7	268.4	245.2	218.0	201.6	192.1	190.7
32.5°	516.4	490.5	434.6	373.3	325.6	292.9	264.3	230.3	209.8	198.9	197.6
35°	655.3	626.7	555.9	470.0	400.6	333.8	288.8	243.9	218.0	204.4	203.0
37.5°	742.5	690.8	604.9	527.3	442.8	403.3	346.1	286.1	228.9	211.2	208.5
40°	869.2	802.5	694.8	589.9	441.4	440.1	401.9	348.8	269.8	223.4	219.4
42.5°	963.2	877.4	742.5	625.4	445.5	457.8	425.1	378.8	320.2	260.2	253.4
45°	1155.3	1046.3	832.4	656.7	451.0	478.2	445.5	396.5	344.7	302.5	298.4
47.5°	1515.0	1363.8	1006.8	716.6	512.3	546.3	487.7	430.5	380.1	337.9	328.3
50°	2017.8	1836.6	1218.0	769.8	617.2	694.8	599.5	512.3	452.3	419.6	410.1
52.5°	2607.7	2404.7	1350.2	852.9	743.9	877.4	772.5	670.3	591.3	596.7	591.3
55°	3265.7	3026.0	1466.0	978.2	906.0	1080.4	966.0	877.4	835.2	953.7	960.5
57.5°	3900.6	3644.5	1538.2	1110.4	1087.2	1314.7	1181.2	1118.6	1134.9	1482.3	1564.1
60°	4506.9	4102.3	1594.0	1234.4	1239.8	1498.7	1396.5	1384.2	1434.6	1880.1	2004.1
62.5°	4857.1	4336.6	1591.3	1314.7	1335.2	1611.8	1521.8	1528.6	1566.8	1945.5	2049.1
65°	5095.5	4455.1	1564.1	1355.6	1376.1	1652.6	1536.8	1483.7	1459.2	1718.0	1828.4
67.5°	4952.4	4226.2	1498.7	1320.2	1347.4	1587.2	1442.8	1309.3	1267.1	1407.4	1472.8
70°	4186.7	3531.4	1335.2	1200.3	1218.0	1339.3	1216.6	1070.9	1028.6	1102.2	1132.2
72.5°	3163.6	2711.2	1197.6	1109.0	1066.8	1107.7	987.8	835.2	825.6	865.1	870.6
75°	2527.3	2128.1	1091.3	1000.0	886.9	929.2	784.8	621.3	609.0	611.7	598.1
77.5°	1904.7	1583.1	918.3	787.5	671.7	741.2	583.1	429.2	408.7	400.6	385.6
80°	1303.8	1099.5	624.0	527.3	476.8	543.6	415.5	314.7	313.4	310.6	294.3
82.5°	925.1	848.8	509.5	448.2	404.6	427.8	361.0	294.3	287.5	288.8	271.1
85°	809.3	768.4	491.8	453.7	411.5	410.1	344.7	275.2	272.5	273.8	257.5
87.5°	773.9	728.9	480.9	433.3	392.4	371.9	303.8	242.5	249.3	253.4	238.4
90°	693.5	647.2	436.0	386.9	347.4	312.0	257.5	219.4	230.3	233.0	219.4
92.5°	584.5	536.8	339.2	310.6	291.6	286.1	241.1	208.5	216.6	218.0	207.1
95°	494.6	451.0	295.6	273.8	260.2	258.9	218.0	189.4	193.5	192.1	182.6
97.5°	397.8	366.5	258.9	238.4	223.4	215.3	186.7	164.9	170.3	173.0	166.2
100°	339.2	321.5	241.1	223.4	205.7	194.8	170.3	152.6	158.0	163.5	158.0
102.5°	318.8	305.2	237.1	218.0	198.9	185.3	162.1	143.1	145.8	152.6	148.5
105°	302.5	290.2	230.3	209.8	192.1	177.1	158.0	134.9	133.5	140.3	139.0
107.5°	284.7	273.8	226.2	201.6	182.6	168.9	151.2	129.4	124.0	128.1	126.7
110°	275.2	264.3	218.0	192.1	171.7	159.4	143.1	125.3	118.5	119.9	119.9



REPORT NUMBER: P856201
 CATALOG NUMBER: FFX-CLB-90-727-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	256.1	243.9	200.3	175.8	159.4	148.5	132.2	119.9	111.7	114.4	115.8
115°	243.9	227.5	183.9	166.2	148.5	139.0	129.4	118.5	109.0	109.0	110.4
117.5°	252.0	220.7	171.7	158.0	148.5	145.8	143.1	126.7	107.6	106.3	106.3
120°	241.1	222.1	186.7	182.6	173.0	164.9	147.1	125.3	104.9	102.2	102.2
122.5°	235.7	231.6	211.2	197.6	179.8	163.5	137.6	114.4	100.8	98.1	98.1
125°	233.0	228.9	204.4	178.5	155.3	139.0	122.6	107.6	99.5	95.4	95.4
127.5°	213.9	194.8	164.9	149.9	134.9	128.1	114.4	104.9	95.4	89.9	89.9
130°	197.6	179.8	154.0	137.6	125.3	119.9	110.4	100.8	91.3	85.8	84.5
132.5°	194.8	177.1	149.9	129.4	118.5	113.1	107.6	96.7	85.8	80.4	79.0
135°	181.2	160.8	133.5	122.6	115.8	111.7	107.6	94.0	83.1	77.7	77.7
137.5°	167.6	147.1	126.7	121.3	115.8	111.7	99.5	85.8	77.7	73.6	73.6
140°	168.9	145.8	129.4	125.3	117.2	104.9	94.0	84.5	77.7	72.2	70.8
142.5°	179.8	151.2	130.8	118.5	113.1	106.3	102.2	91.3	77.7	68.1	65.4
145°	197.6	163.5	147.1	141.7	132.2	119.9	104.9	84.5	70.8	62.7	61.3
147.5°	218.0	183.9	164.9	149.9	130.8	110.4	89.9	73.6	62.7	59.9	58.6
150°	189.4	156.7	141.7	121.3	104.9	88.6	73.6	65.4	59.9	58.6	58.6
152.5°	143.1	117.2	104.9	95.4	85.8	77.7	69.5	64.0	59.9	57.2	57.2
155°	124.0	110.4	98.1	88.6	79.0	70.8	64.0	61.3	57.2	57.2	55.9
157.5°	109.0	102.2	85.8	77.7	70.8	66.8	64.0	59.9	58.6	57.2	57.2
160°	99.5	95.4	79.0	72.2	68.1	65.4	65.4	62.7	58.6	57.2	57.2
162.5°	96.7	92.6	76.3	69.5	65.4	66.8	69.5	68.1	62.7	59.9	59.9
165°	95.4	92.6	77.7	68.1	65.4	66.8	73.6	74.9	68.1	64.0	62.7
167.5°	87.2	85.8	81.7	74.9	70.8	70.8	74.9	76.3	73.6	73.6	72.2
170°	79.0	79.0	80.4	81.7	79.0	74.9	72.2	72.2	76.3	80.4	81.7
172.5°	76.3	77.7	80.4	84.5	84.5	79.0	74.9	73.6	77.7	83.1	84.5
175°	80.4	81.7	83.1	83.1	80.4	79.0	77.7	76.3	79.0	84.5	85.8
177.5°	66.8	66.8	68.1	68.1	66.8	68.1	66.8	64.0	64.0	64.0	64.0
180°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7

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.

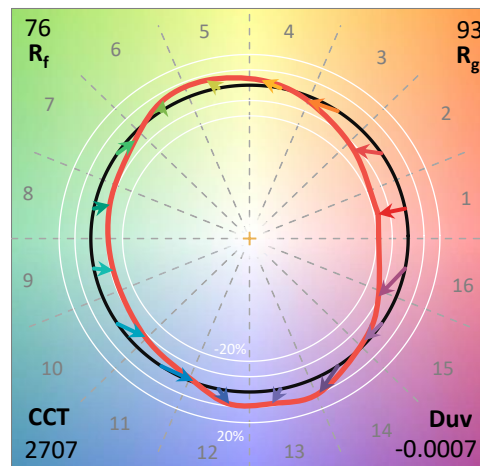
Test Information

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

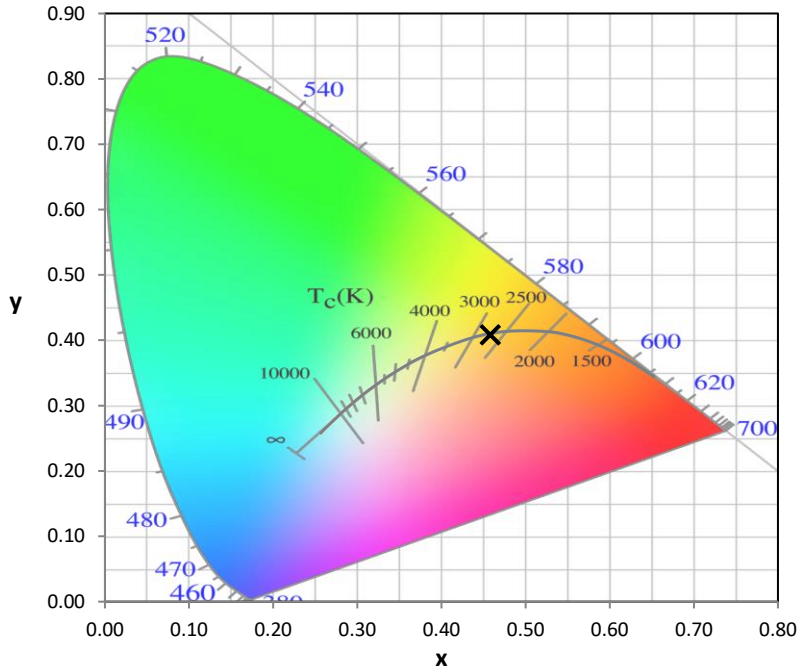
Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

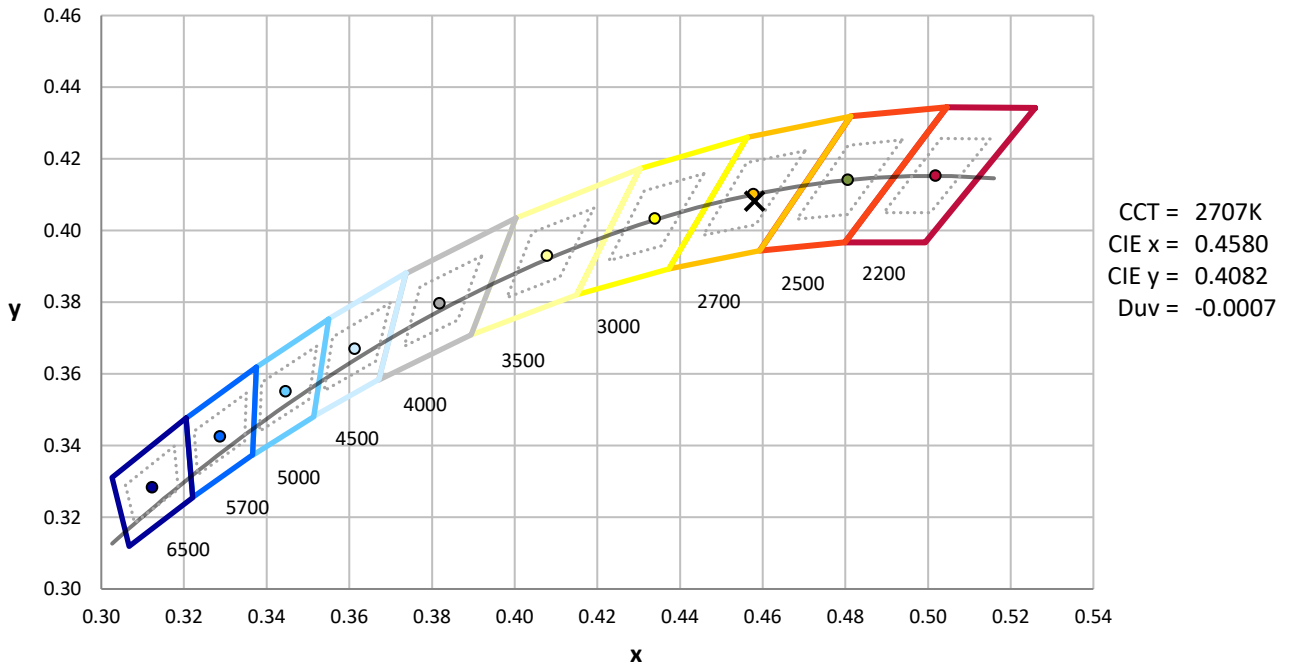
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-3

CIE 1931 Chromaticity Diagram



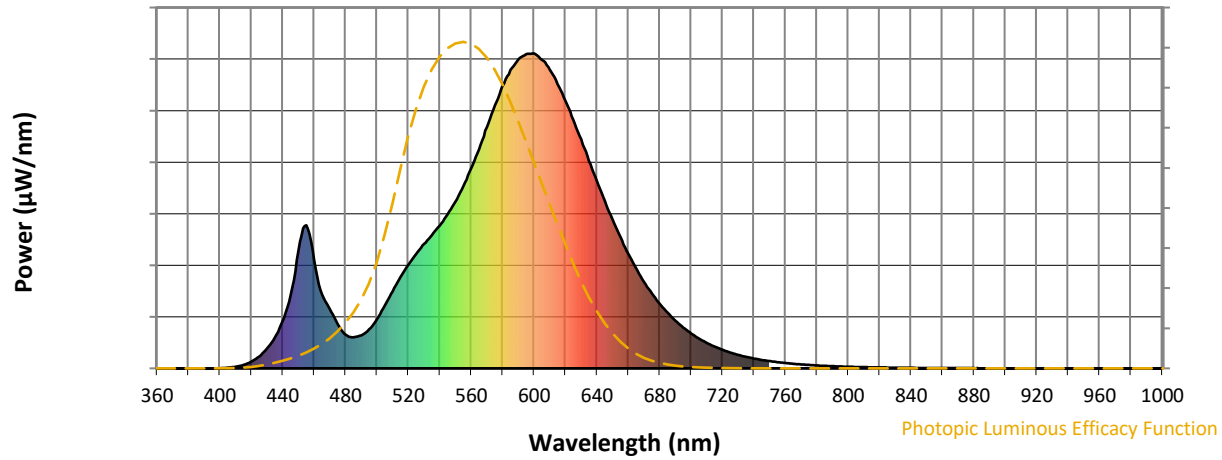
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

Photopic Flux vs. Wavelength

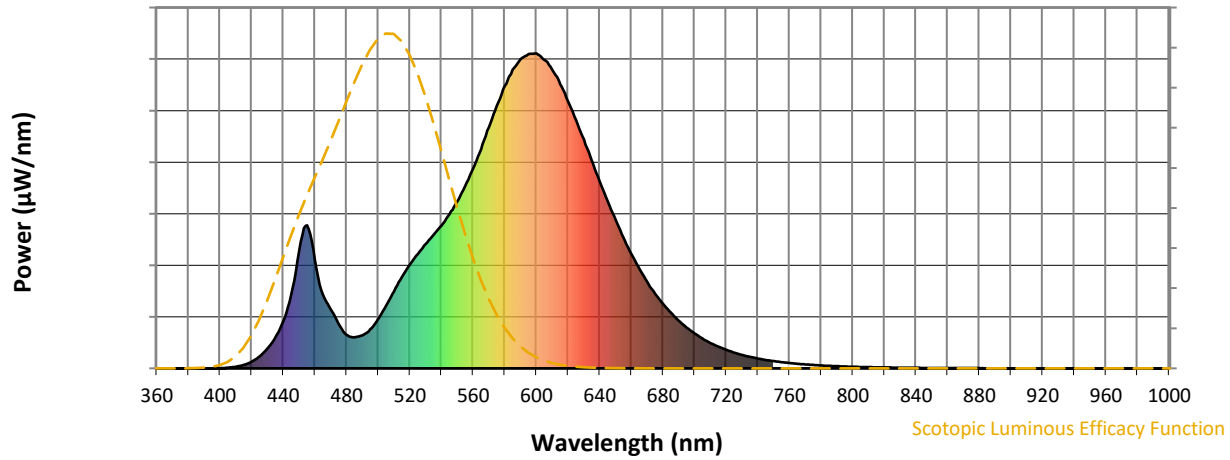


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength



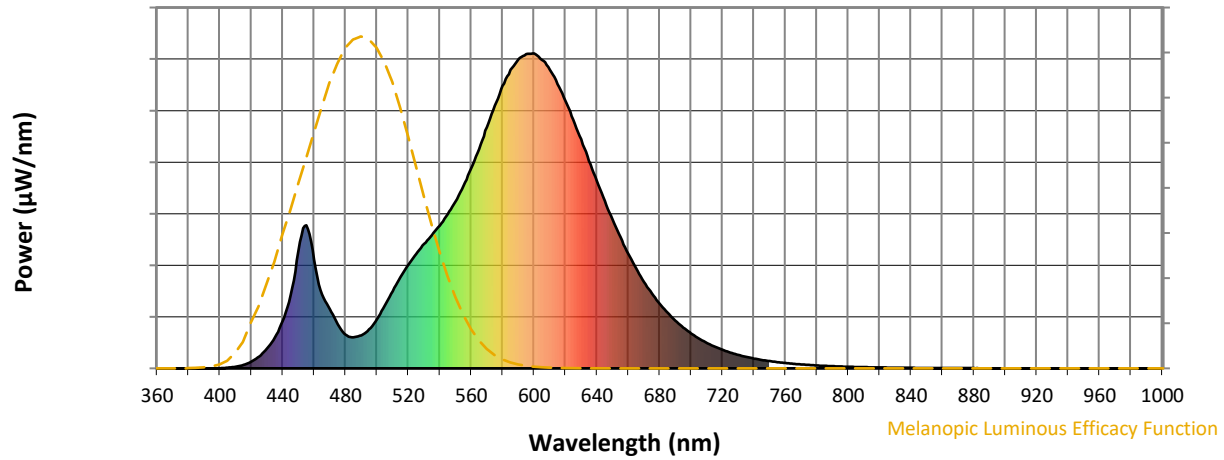
Scotopic Lumens: NR

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

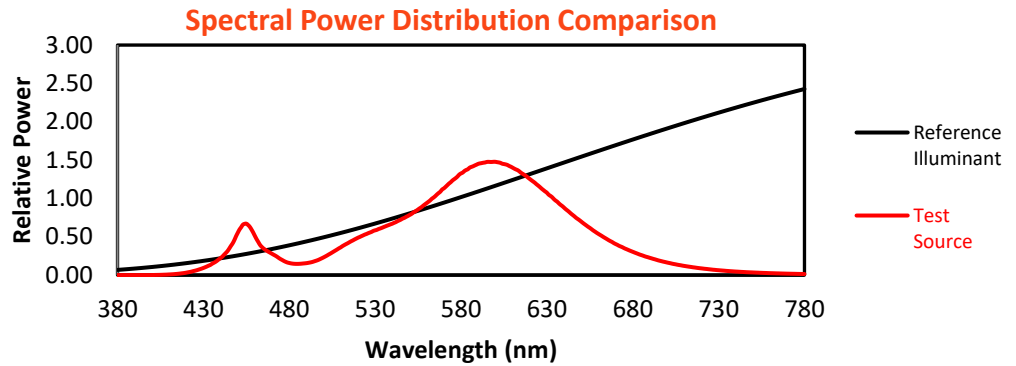
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	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			

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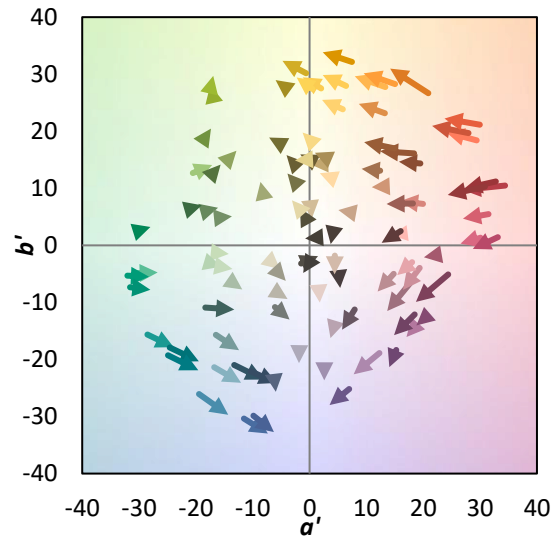
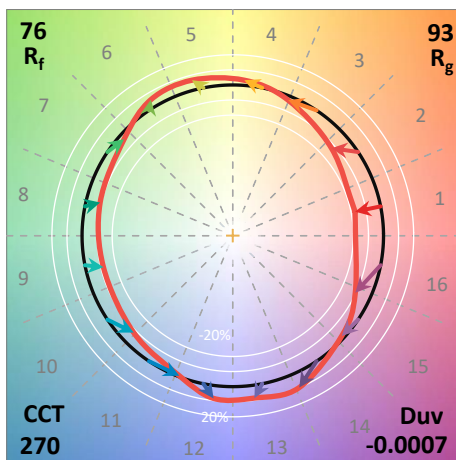
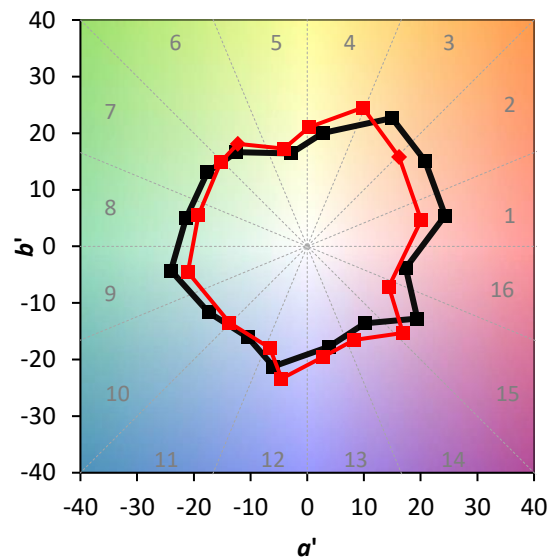
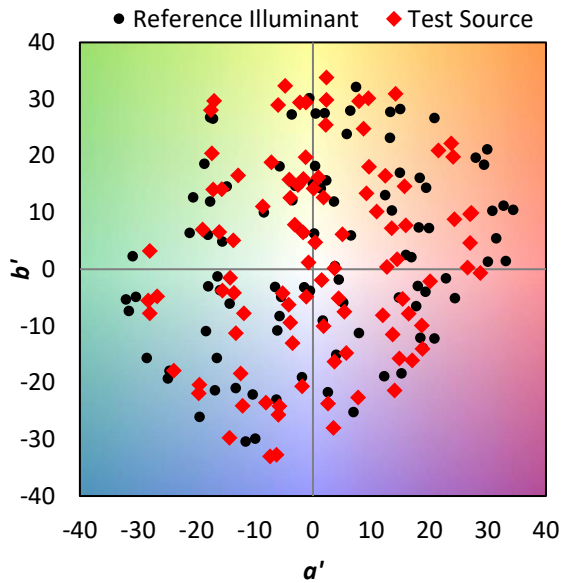
TM-30-18

Summary

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



Color Vector Graphics

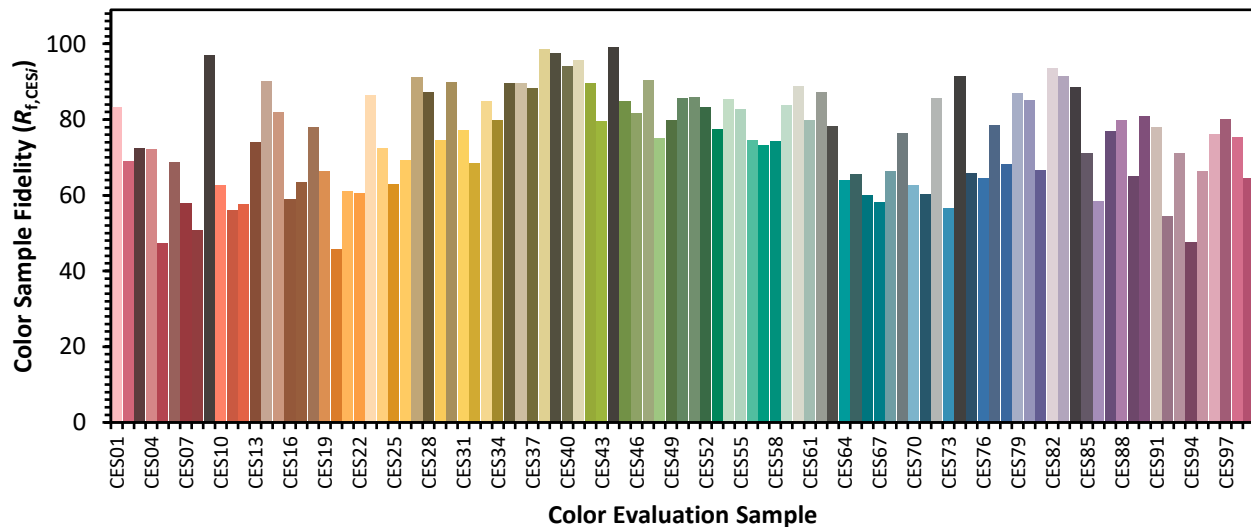


REPORT NUMBER: SP1-2406-133-3

TM-30-18

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

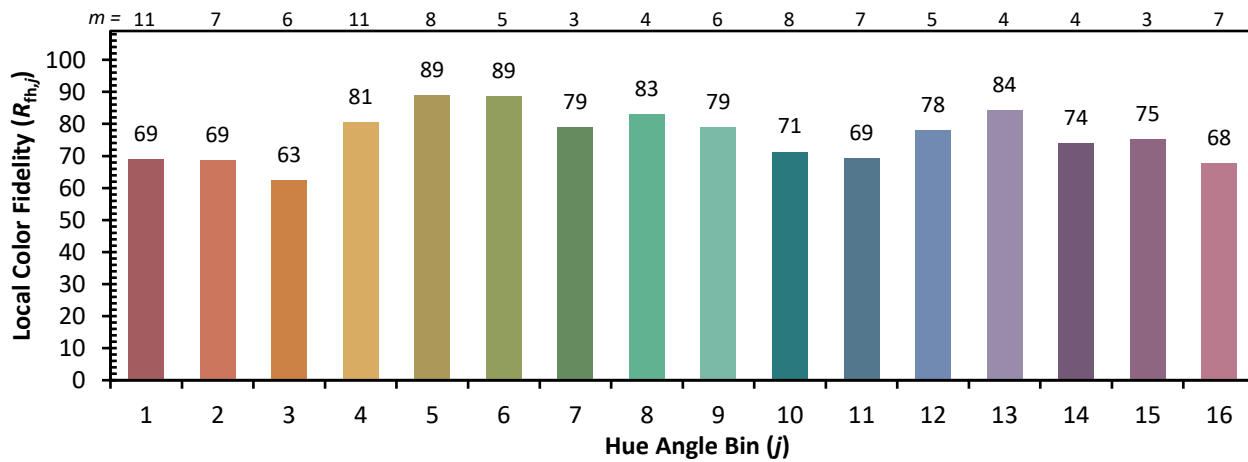
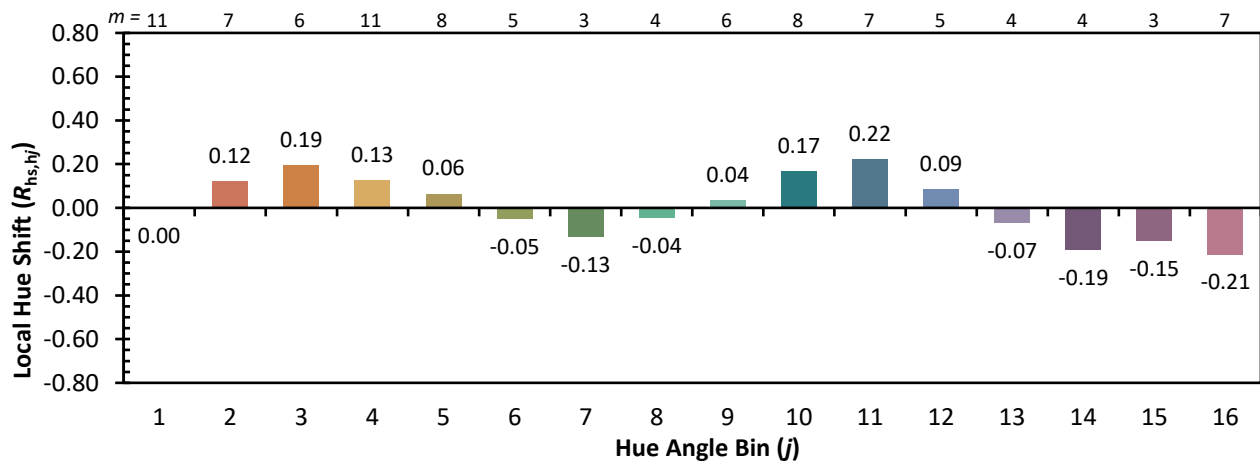
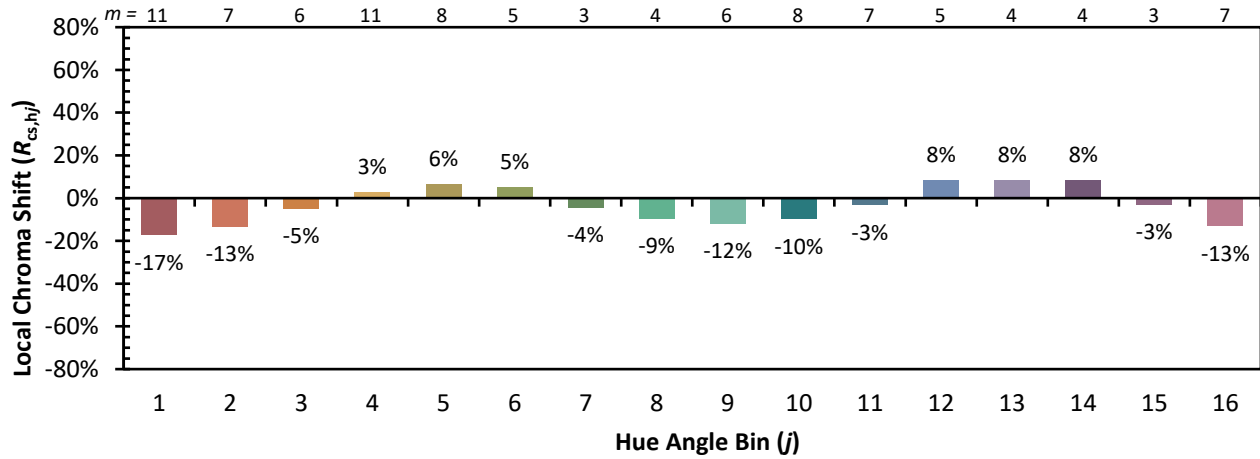
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CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 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	



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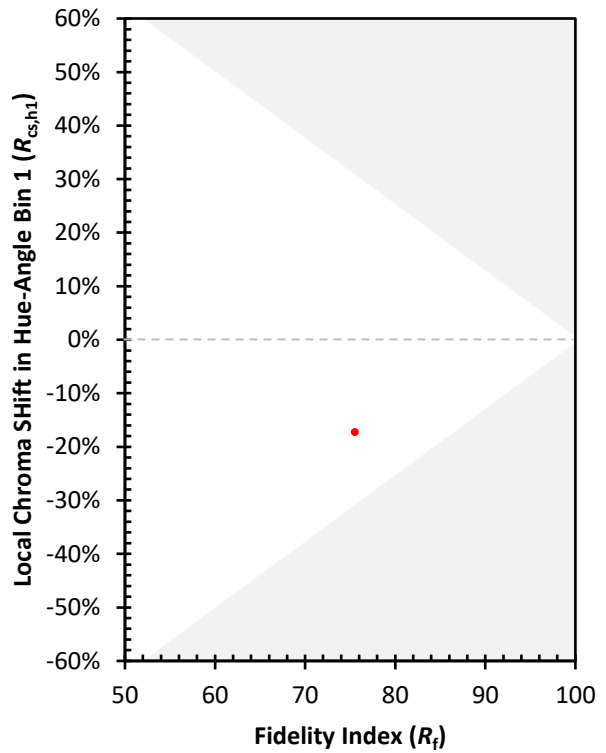
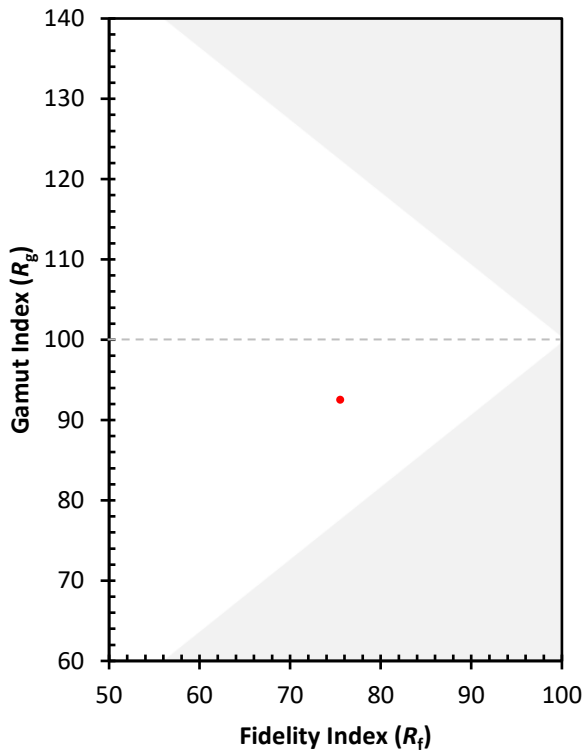
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)