

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: P856121

Luminaire Tested: **FFX-CLB-80-730-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856121
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-730-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

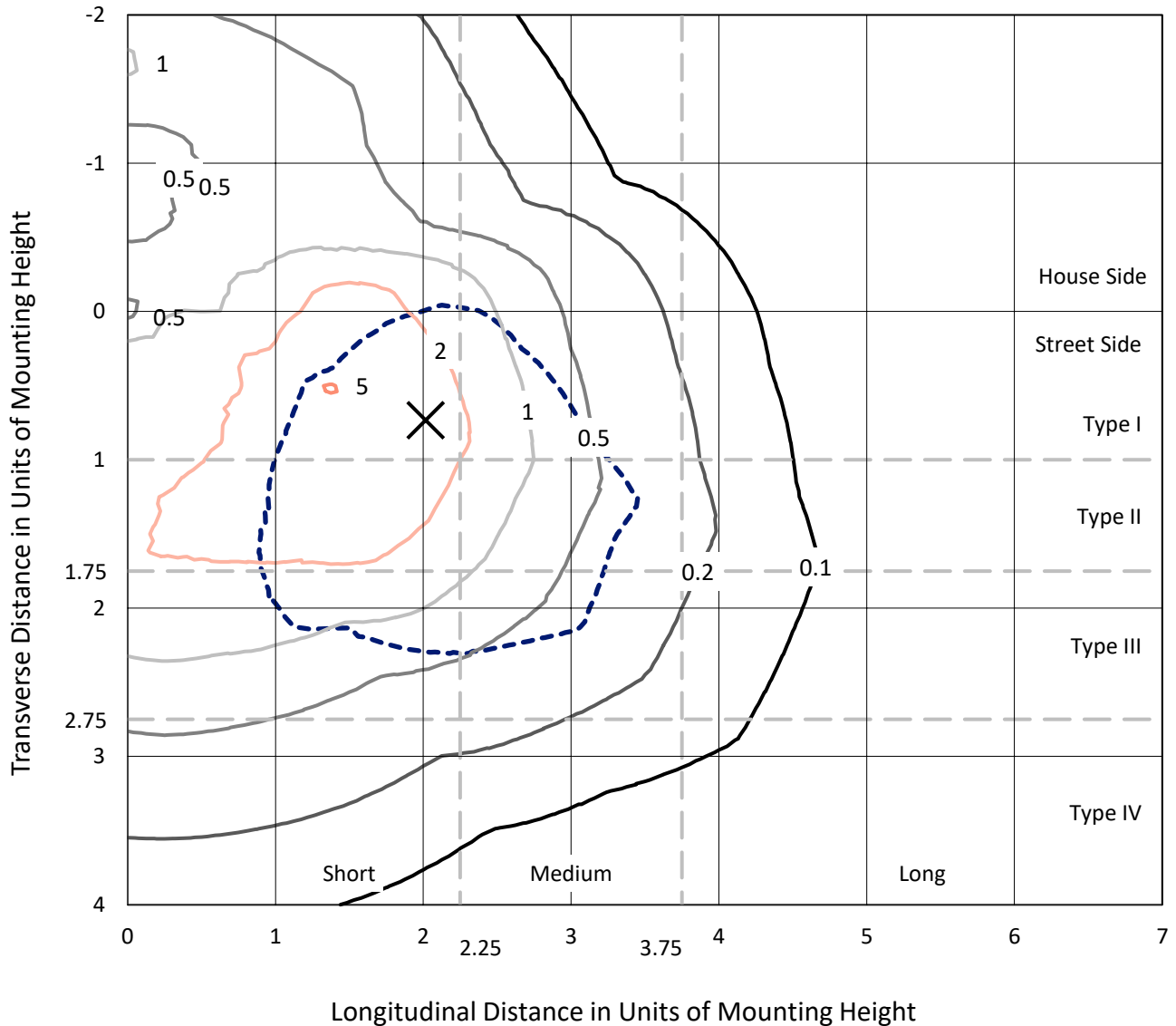
Lumens per Lamp: N/A
Luminaire Lumens: 12439.5 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.1%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P856121
 CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3

Iso-Footcandle Lines of Horizontal Illumination

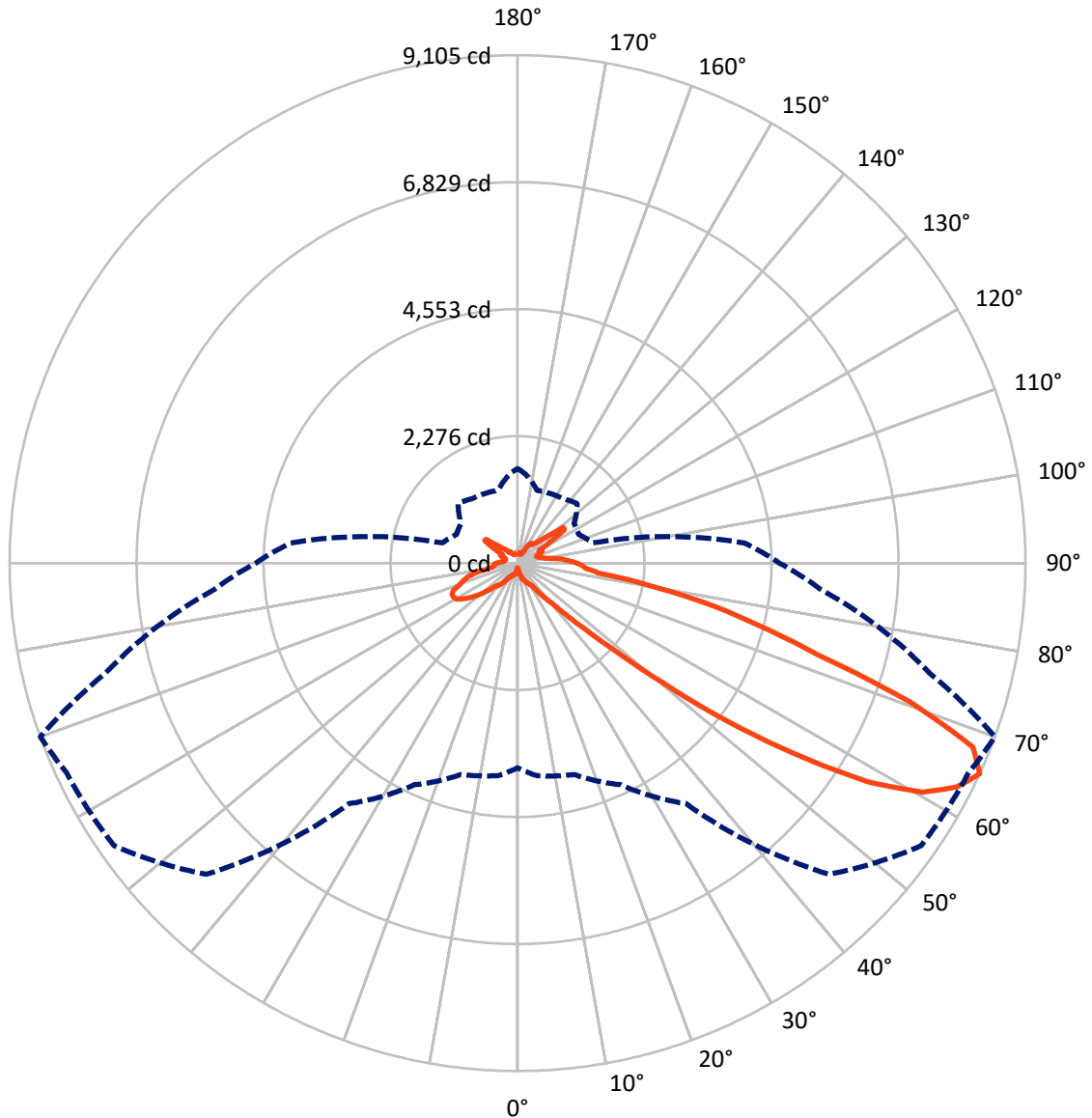
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

REPORT NUMBER: P856121
CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P856121
 CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3

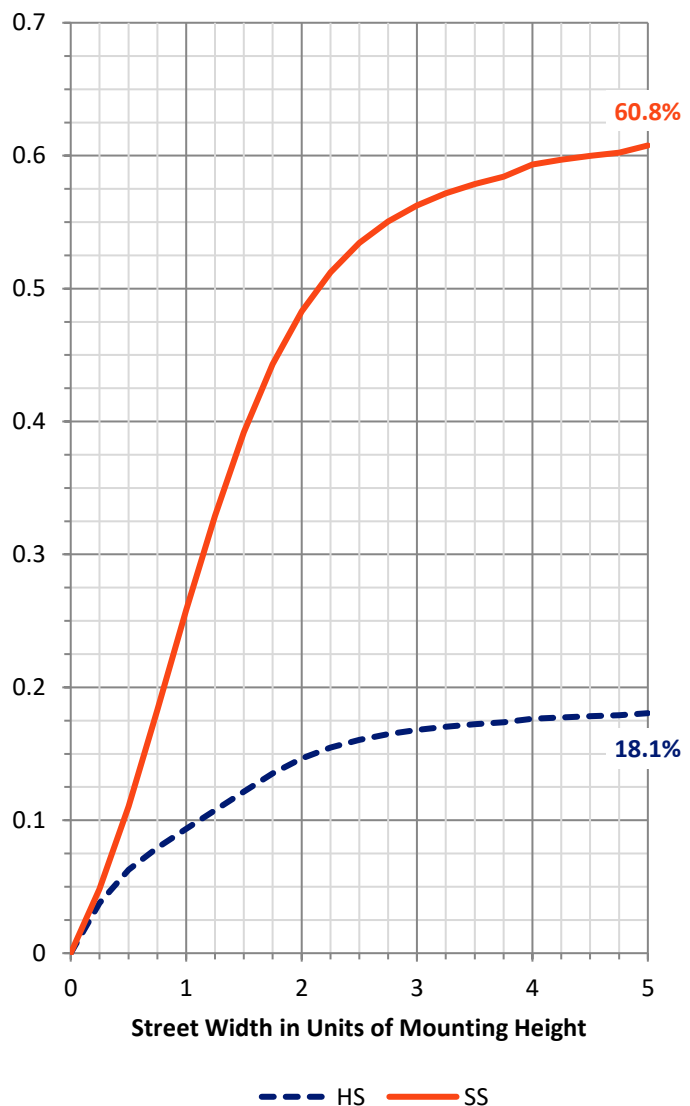
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2343.2	835.9	3179.1
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	7813.8	1446.5	9260.3
	% Fixture	62.8	11.6	74.4
Total	Lumens	10157.0	2282.5	12439.5
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.1
10°-20°	65.2	0.5
20°-30°	138.3	1.1
30°-40°	281.7	2.3
40°-50°	716.3	5.8
50°-60°	2302.1	18.5
60°-70°	3757.0	30.2
70°-80°	2138.9	17.2
80°-90°	744.2	6.0
90°-100°	463.1	3.7
100°-110°	295.0	2.4
110°-120°	324.5	2.6
120°-130°	548.8	4.4
130°-140°	323.5	2.6
140°-150°	174.1	1.4
150°-160°	88.0	0.7
160°-170°	48.2	0.4
170°-180°	17.4	0.1
0°-90°	10157.0	81.7
0°-180°	12439.5	100.0

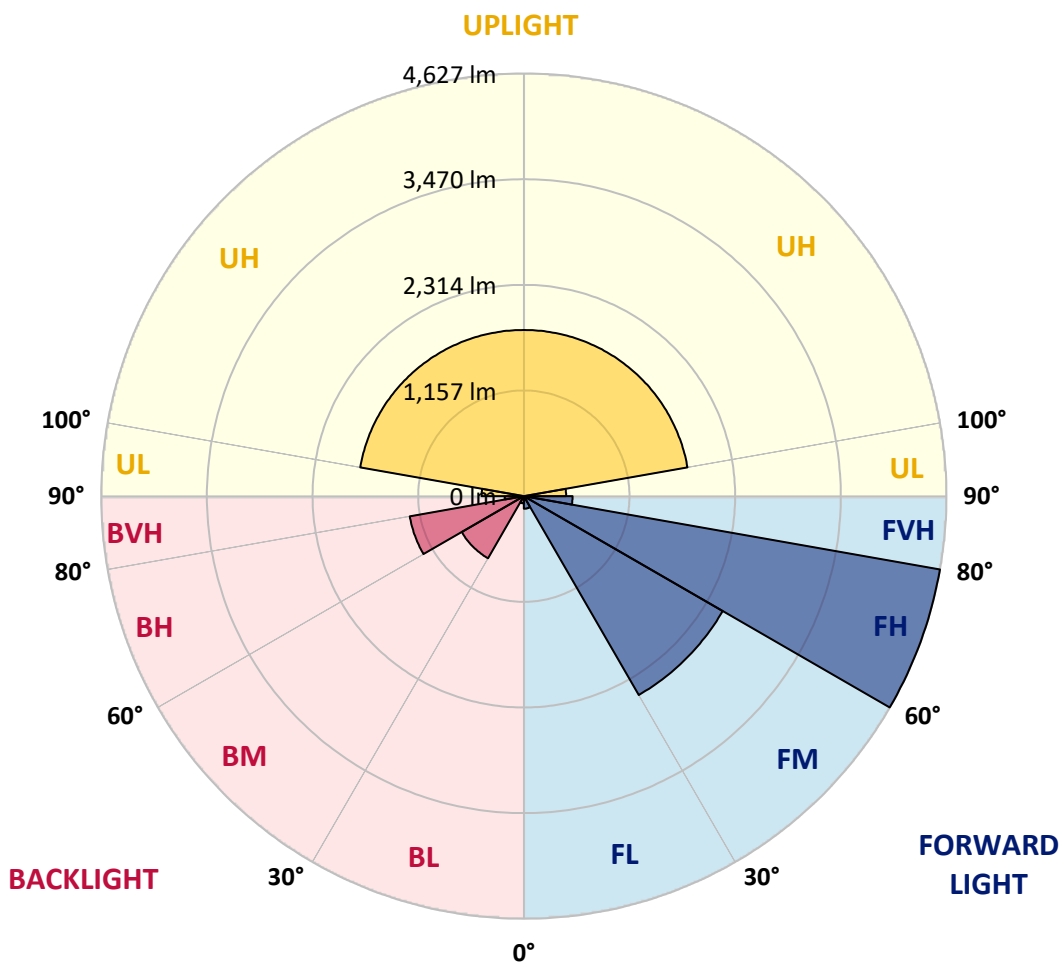


REPORT NUMBER: P856121
 CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	138.1	1.1			
FM (30°-60°)	2514.8	20.2			
FH (60°-80°)	4627.3	37.2			G2/5000
FVH (80°-90°)	533.6	4.3			G4/750
BL (0°-30°)	78.7	0.6	B0/110		
BM (30°-60°)	785.3	6.3	B1/1000		
BH (60°-80°)	1268.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	210.6	1.7			G2/225
UL (90°-100°)	463.1	3.7		U3/500	
UH (100°-180°)	1819.3	14.6		U5	

BUG Rating: B3-U5-G4
 Type III Short





REPORT NUMBER: P856121

CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
2.5°	98.7	98.7	101.3	101.3	101.3	98.7	97.4	94.9	94.9	94.9	93.6
5°	128.2	126.9	128.2	132.0	133.3	129.5	126.9	123.1	123.1	121.8	121.8
7.5°	173.1	171.8	169.2	165.4	166.6	170.5	175.6	165.4	162.8	156.4	153.8
10°	216.6	214.1	216.6	210.2	203.8	194.8	200.0	197.4	192.3	185.9	180.7
12.5°	264.1	265.3	270.5	265.3	255.1	241.0	238.4	232.0	226.9	225.6	217.9
15°	312.8	314.1	319.2	317.9	307.7	288.4	280.7	274.3	271.8	264.1	247.4
17.5°	338.4	339.7	341.0	342.3	335.9	320.5	308.9	297.4	293.6	291.0	270.5
20°	351.2	348.7	351.2	356.4	361.5	348.7	337.1	330.7	326.9	317.9	291.0
22.5°	371.7	369.2	367.9	371.7	387.1	378.2	366.6	360.2	356.4	344.8	303.8
25°	393.5	391.0	394.8	392.3	411.5	407.6	396.1	389.7	384.6	370.5	323.0
27.5°	417.9	415.3	419.2	416.6	432.0	434.6	426.9	421.7	414.0	393.5	337.1
30°	438.4	435.8	439.7	438.4	453.8	462.8	458.9	457.6	446.1	421.7	361.5
32.5°	455.1	453.8	462.8	466.6	470.5	491.0	488.4	499.9	487.1	457.6	397.4
35°	493.5	497.4	521.7	547.4	551.2	592.2	597.4	639.7	626.8	588.4	515.3
37.5°	762.7	748.6	724.3	699.9	690.9	770.4	781.9	824.3	792.2	720.4	602.5
40°	812.7	789.6	761.4	742.2	744.8	887.1	862.7	1022.9	931.9	824.3	735.8
42.5°	771.7	764.0	862.7	908.9	875.5	1083.2	1042.2	1347.3	1243.4	979.4	888.3
45°	967.8	952.4	987.1	1033.2	1043.5	1425.5	1397.3	1716.4	1674.1	1224.2	1139.6
47.5°	1107.5	1093.4	1139.6	1296.0	1430.6	1843.3	1997.2	2457.4	2308.7	1739.5	1543.4
50°	1526.7	1524.2	1666.4	1852.3	2088.2	2681.7	3090.6	3607.2	3367.5	2462.5	2116.4
52.5°	1940.8	1945.9	2120.2	2449.7	2694.5	3743.1	4323.8	4685.3	4717.3	3211.1	2743.2
55°	2253.6	2285.6	2495.8	3048.3	3418.8	4687.8	5441.6	5722.3	6042.8	4339.2	3395.7
57.5°	2863.7	2912.4	3112.4	3653.4	4171.3	5864.6	6882.4	6913.2	7391.3	5590.3	4095.6
60°	3397.0	3511.1	3581.6	4072.5	4778.9	6988.8	7952.8	7891.3	8339.9	6627.3	4805.8
62.5°	3562.4	3693.1	3759.8	4282.8	5259.6	7619.5	8452.7	8529.7	8838.6	7355.5	5240.3
65°	3670.0	3823.9	3923.8	4386.6	5264.7	7888.7	8832.2	8914.2	9105.2	7660.5	5457.0
67.5°	3614.9	3811.0	3939.2	4350.7	4987.8	7681.0	8756.5	8598.9	8801.4	7405.4	5214.7
70°	3156.0	3361.1	3490.6	3796.9	4170.0	6458.1	7549.0	7284.9	7463.1	6181.2	4287.9
72.5°	2571.5	2672.7	2752.2	2920.1	3143.2	4763.5	5736.4	5517.2	5623.6	4650.7	3213.7
75°	2112.5	2143.3	2242.0	2338.2	2375.3	3484.2	4544.3	4344.3	4468.6	3540.6	2557.4
77.5°	1534.4	1552.4	1693.4	1708.8	1699.8	2390.7	3581.6	3406.0	3445.7	2631.7	1908.7
80°	890.9	925.5	1110.1	1101.1	1085.8	1472.9	2521.5	2451.0	2327.9	1786.9	1321.6
82.5°	628.1	662.7	747.3	766.6	756.3	1057.6	1637.0	1590.8	1457.5	1243.4	914.0
85°	661.5	665.3	669.1	678.1	661.5	943.5	1253.7	1230.6	1231.9	1028.1	753.7
87.5°	652.5	667.9	674.3	678.1	661.5	896.0	1165.2	1135.7	1149.8	976.8	732.0
90°	573.0	601.2	603.8	610.2	601.2	799.9	1046.0	1017.8	1035.8	880.7	666.6
92.5°	467.9	483.3	501.2	525.6	515.3	684.5	889.6	869.1	890.9	762.7	585.8
95°	443.5	460.2	471.7	488.4	473.0	624.3	803.7	762.7	780.7	667.9	505.1
97.5°	366.6	380.7	391.0	397.4	385.8	492.2	616.6	588.4	587.1	516.6	403.8
100°	312.8	321.8	330.7	337.1	326.9	407.6	488.4	478.1	480.7	426.9	347.4
102.5°	297.4	302.5	316.6	317.9	306.4	371.7	439.7	435.8	441.0	394.8	325.6
105°	291.0	294.8	306.4	302.5	292.3	347.4	405.1	407.6	407.6	367.9	305.1
107.5°	271.8	278.2	291.0	284.6	279.5	320.5	373.0	364.1	366.6	342.3	289.7
110°	269.2	274.3	287.1	282.0	278.2	312.8	358.9	356.4	360.2	338.4	297.4



REPORT NUMBER: P856121
 CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	334.6	329.4	339.7	329.4	335.9	365.3	414.0	408.9	420.5	412.8	371.7
115°	412.8	415.3	425.6	405.1	411.5	441.0	467.9	476.9	487.1	475.6	433.3
117.5°	382.0	403.8	391.0	388.4	383.3	406.4	402.5	425.6	435.8	426.9	410.2
120°	408.9	435.8	398.7	379.4	371.7	429.4	457.6	456.4	448.7	430.7	396.1
122.5°	611.5	615.3	617.9	675.6	655.0	711.4	728.1	706.3	706.3	729.4	658.9
125°	953.7	957.6	955.0	980.6	966.5	1020.4	1042.2	1040.9	1028.1	1016.5	947.3
127.5°	964.0	964.0	955.0	940.9	953.7	1006.3	1007.6	1056.3	1039.6	1008.8	944.7
130°	673.0	678.1	710.2	720.4	738.4	749.9	737.1	779.4	787.1	781.9	738.4
132.5°	557.6	566.6	601.2	614.0	625.6	626.8	621.7	655.0	662.7	662.7	643.5
135°	482.0	492.2	496.1	489.7	506.3	519.2	529.4	556.3	553.8	548.6	532.0
137.5°	420.5	424.3	412.8	398.7	407.6	444.8	465.3	493.5	492.2	483.3	455.1
140°	355.1	356.4	350.0	343.5	352.5	384.6	403.8	434.6	430.7	424.3	391.0
142.5°	269.2	273.0	289.7	302.5	324.3	391.0	380.7	407.6	426.9	442.2	365.3
145°	283.3	278.2	275.6	289.7	317.9	414.0	384.6	419.2	428.1	438.4	350.0
147.5°	326.9	329.4	325.6	316.6	355.1	385.8	369.2	399.9	405.1	402.5	366.6
150°	256.4	260.2	261.5	257.7	305.1	303.8	287.1	310.2	312.8	312.8	288.4
152.5°	208.9	210.2	207.7	205.1	235.9	230.7	223.0	230.7	229.5	228.2	223.0
155°	198.7	198.7	196.1	197.4	217.9	212.8	207.7	212.8	210.2	206.4	201.3
157.5°	183.3	184.6	184.6	188.4	201.3	192.3	187.2	189.7	187.2	184.6	184.6
160°	173.1	173.1	174.3	179.5	187.2	178.2	174.3	175.6	174.3	171.8	173.1
162.5°	169.2	169.2	170.5	173.1	174.3	169.2	165.4	165.4	165.4	165.4	169.2
165°	166.6	166.6	166.6	167.9	167.9	164.1	162.8	164.1	165.4	166.6	171.8
167.5°	171.8	171.8	171.8	171.8	170.5	167.9	166.6	167.9	169.2	170.5	174.3
170°	179.5	178.2	178.2	176.9	175.6	173.1	171.8	170.5	170.5	171.8	173.1
172.5°	184.6	184.6	183.3	183.3	182.0	179.5	176.9	175.6	175.6	175.6	175.6
175°	191.0	191.0	191.0	191.0	189.7	187.2	185.9	183.3	183.3	183.3	183.3
177.5°	198.7	198.7	198.7	198.7	196.1	193.6	191.0	188.4	188.4	188.4	187.2
180°	189.7	189.7	189.7	189.7	189.7	189.7	189.7	189.7	189.7	189.7	189.7



REPORT NUMBER: P856121

CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
2.5°	92.3	91.0	87.2	85.9	84.6	82.0	79.5	78.2	76.9	76.9	78.2
5°	123.1	121.8	121.8	117.9	114.1	107.7	105.1	105.1	106.4	107.7	110.2
7.5°	155.1	157.7	160.2	153.8	142.3	126.9	117.9	120.5	126.9	132.0	132.0
10°	179.5	179.5	188.4	180.7	161.5	142.3	129.5	126.9	128.2	129.5	130.8
12.5°	214.1	214.1	208.9	188.4	169.2	150.0	139.7	137.2	137.2	132.0	130.8
15°	239.7	232.0	214.1	194.8	178.2	159.0	147.4	143.6	139.7	135.9	134.6
17.5°	255.1	241.0	216.6	198.7	182.0	166.6	155.1	147.4	143.6	144.9	144.9
20°	273.0	257.7	235.9	216.6	196.1	175.6	161.5	150.0	146.1	147.4	146.1
22.5°	287.1	271.8	250.0	228.2	206.4	184.6	167.9	153.8	148.7	150.0	150.0
25°	303.8	291.0	267.9	242.3	215.4	194.8	178.2	161.5	153.8	152.5	152.5
27.5°	320.5	311.5	287.1	256.4	228.2	203.8	187.2	167.9	159.0	155.1	155.1
30°	342.3	332.0	307.7	270.5	239.7	216.6	198.7	178.2	165.4	159.0	157.7
32.5°	376.9	365.3	335.9	296.1	252.5	229.5	210.2	187.2	170.5	162.8	161.5
35°	489.7	471.7	425.6	379.4	308.9	256.4	224.3	194.8	175.6	165.4	164.1
37.5°	560.2	516.6	455.1	424.3	347.4	314.1	270.5	223.0	183.3	170.5	167.9
40°	674.3	614.0	537.1	476.9	338.4	343.5	316.6	278.2	217.9	179.5	175.6
42.5°	770.4	694.8	578.1	499.9	339.7	358.9	338.4	306.4	261.5	212.8	205.1
45°	949.9	852.5	671.7	537.1	348.7	382.0	356.4	323.0	283.3	250.0	246.1
47.5°	1283.2	1151.1	839.6	598.6	407.6	443.5	397.4	353.8	317.9	279.5	273.0
50°	1756.2	1598.5	1033.2	647.4	508.9	584.5	501.2	428.1	387.1	358.9	355.1
52.5°	2301.0	2135.6	1175.5	737.1	632.0	758.9	662.7	578.1	524.3	524.3	532.0
55°	2934.2	2768.9	1289.6	861.4	783.2	951.2	847.3	778.1	752.5	861.4	890.9
57.5°	3562.4	3352.1	1366.5	988.3	960.1	1176.8	1052.4	993.5	1040.9	1363.9	1463.9
60°	4135.4	3788.0	1426.7	1108.8	1111.4	1356.2	1263.9	1260.1	1333.2	1745.9	1872.8
62.5°	4466.1	3993.1	1422.9	1178.1	1199.8	1467.8	1390.8	1411.4	1452.4	1810.0	1906.2
65°	4693.0	4090.5	1393.4	1208.8	1237.0	1507.5	1411.4	1376.7	1349.8	1602.4	1694.7
67.5°	4536.6	3862.3	1326.7	1164.0	1213.9	1449.8	1322.9	1224.2	1171.6	1299.8	1362.6
70°	3799.5	3221.4	1174.2	1047.3	1093.4	1221.6	1099.9	1002.4	947.3	1016.5	1046.0
72.5°	2877.8	2451.0	1058.8	979.4	958.8	1010.1	894.8	785.8	752.5	797.3	803.7
75°	2292.0	1917.7	974.2	885.8	805.0	855.0	714.0	582.0	562.7	562.7	552.5
77.5°	1719.0	1421.6	830.7	689.7	593.5	675.6	532.0	405.1	379.4	374.3	360.2
80°	1152.4	967.8	558.9	457.6	426.9	501.2	378.2	297.4	298.7	297.4	280.7
82.5°	805.0	747.3	453.8	398.7	365.3	394.8	342.3	285.9	283.3	285.9	267.9
85°	714.0	684.5	439.7	411.5	376.9	380.7	328.2	270.5	271.8	276.9	261.5
87.5°	685.8	652.5	441.0	397.4	367.9	352.5	297.4	250.0	257.7	262.8	250.0
90°	617.9	584.5	405.1	358.9	328.2	306.4	262.8	237.1	247.4	252.5	241.0
92.5°	535.8	501.2	337.1	316.6	308.9	308.9	275.6	252.5	258.9	261.5	251.2
95°	461.5	428.1	300.0	278.2	271.8	273.0	246.1	226.9	230.7	229.5	221.8
97.5°	373.0	352.5	261.5	247.4	241.0	238.4	220.5	206.4	214.1	219.2	212.8
100°	329.4	319.2	252.5	242.3	233.3	232.0	216.6	207.7	214.1	221.8	216.6
102.5°	307.7	300.0	241.0	226.9	220.5	217.9	207.7	197.4	203.8	211.5	207.7
105°	289.7	278.2	230.7	217.9	208.9	207.7	197.4	184.6	188.4	198.7	196.1
107.5°	274.3	266.6	229.5	215.4	203.8	203.8	192.3	182.0	183.3	187.2	187.2
110°	287.1	278.2	238.4	228.2	212.8	207.7	205.1	197.4	191.0	188.4	188.4



REPORT NUMBER: P856121
 CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	355.1	338.4	298.7	287.1	261.5	243.6	226.9	211.5	201.3	197.4	194.8
115°	419.2	399.9	352.5	323.0	288.4	261.5	238.4	221.8	206.4	201.3	206.4
117.5°	432.0	380.7	307.7	283.3	262.8	246.1	233.3	220.5	208.9	212.8	208.9
120°	428.1	365.3	310.2	344.8	310.2	271.8	241.0	241.0	237.1	217.9	221.8
122.5°	658.9	615.3	548.6	528.1	430.7	393.5	335.9	287.1	239.7	212.8	200.0
125°	902.4	860.1	757.6	679.4	582.0	479.4	367.9	283.3	221.8	196.1	200.0
127.5°	907.6	869.1	771.7	639.7	511.5	410.2	306.4	251.2	216.6	200.0	197.4
130°	707.6	670.4	587.1	485.8	405.1	338.4	275.6	226.9	196.1	183.3	179.5
132.5°	612.7	579.4	502.5	410.2	351.2	298.7	246.1	197.4	176.9	167.9	169.2
135°	515.3	475.6	402.5	352.5	315.3	267.9	220.5	180.7	170.5	167.9	166.6
137.5°	437.1	408.9	357.6	319.2	283.3	241.0	193.6	169.2	165.4	167.9	165.4
140°	371.7	348.7	320.5	287.1	243.6	203.8	173.1	161.5	167.9	169.2	167.9
142.5°	320.5	297.4	267.9	223.0	202.5	184.6	176.9	167.9	167.9	166.6	165.4
145°	267.9	237.1	223.0	229.5	216.6	198.7	184.6	166.6	160.2	160.2	161.5
147.5°	307.7	275.6	257.7	243.6	219.2	193.6	171.8	155.1	152.5	157.7	156.4
150°	265.3	235.9	223.0	203.8	188.4	169.2	155.1	148.7	150.0	156.4	156.4
152.5°	211.5	191.0	183.3	178.2	170.5	159.0	151.3	148.7	151.3	153.8	153.8
155°	198.7	187.2	178.2	174.3	165.4	156.4	150.0	148.7	151.3	153.8	156.4
157.5°	185.9	182.0	170.5	166.6	159.0	155.1	151.3	151.3	152.5	155.1	157.7
160°	176.9	175.6	165.4	164.1	159.0	156.4	156.4	157.7	159.0	159.0	159.0
162.5°	171.8	171.8	167.9	165.4	164.1	162.8	166.6	167.9	166.6	166.6	166.6
165°	173.1	174.3	170.5	167.9	166.6	169.2	175.6	175.6	173.1	171.8	170.5
167.5°	174.3	175.6	173.1	171.8	171.8	174.3	176.9	175.6	174.3	173.1	171.8
170°	173.1	174.3	174.3	175.6	175.6	175.6	178.2	178.2	175.6	174.3	174.3
172.5°	175.6	176.9	178.2	179.5	180.7	179.5	180.7	180.7	180.7	180.7	182.0
175°	183.3	183.3	184.6	184.6	183.3	184.6	184.6	184.6	185.9	188.4	188.4
177.5°	187.2	187.2	185.9	185.9	184.6	185.9	185.9	185.9	185.9	187.2	185.9
180°	189.7	189.7	189.7	189.7	189.7	189.7	189.7	189.7	189.7	189.7	189.7

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

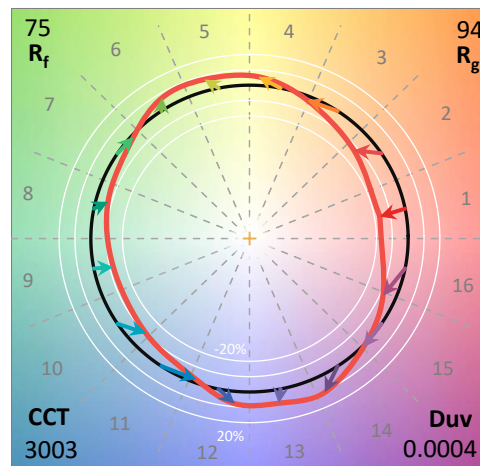
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-4
 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-100-730-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3003
 CIE u': 0.2503
 CIE v': 0.5219
 Duv: 0.0004
 CIE x: 0.4373
 CIE y: 0.4053
 CIE z: 0.1573
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 52.93545
 Rf: 75.2
 Rg: 93.8

CRI (Ra): 71.9
 R1: 68.2
 R2: 82.2
 R3: 93.9
 R4: 67.6
 R5: 67.2
 R6: 75.3
 R7: 77.6
 R8: 43.1
 R9: -33.7
 R10: 59.0
 R11: 62.4
 R12: 48.5
 R13: 70.8
 R14: 96.6
 R15: 60.0



Test Conditions

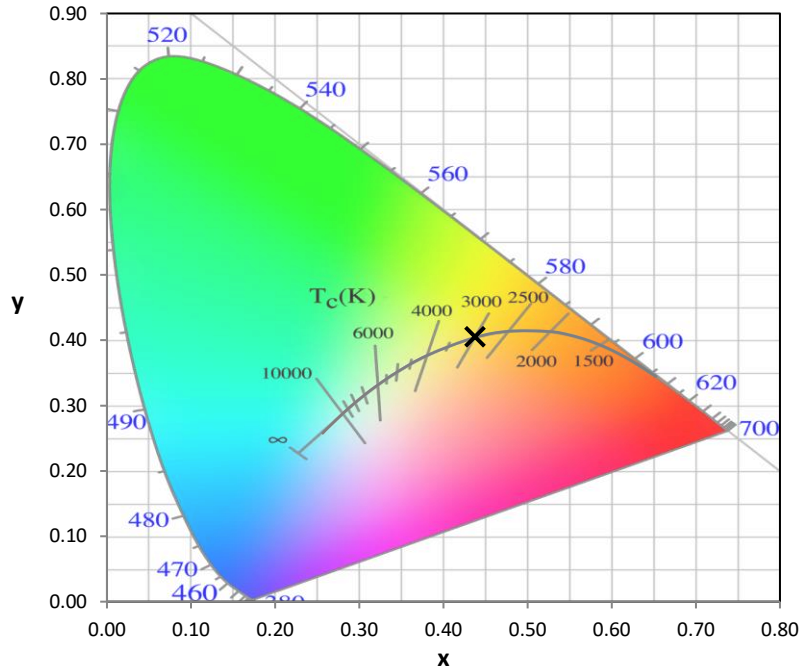
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

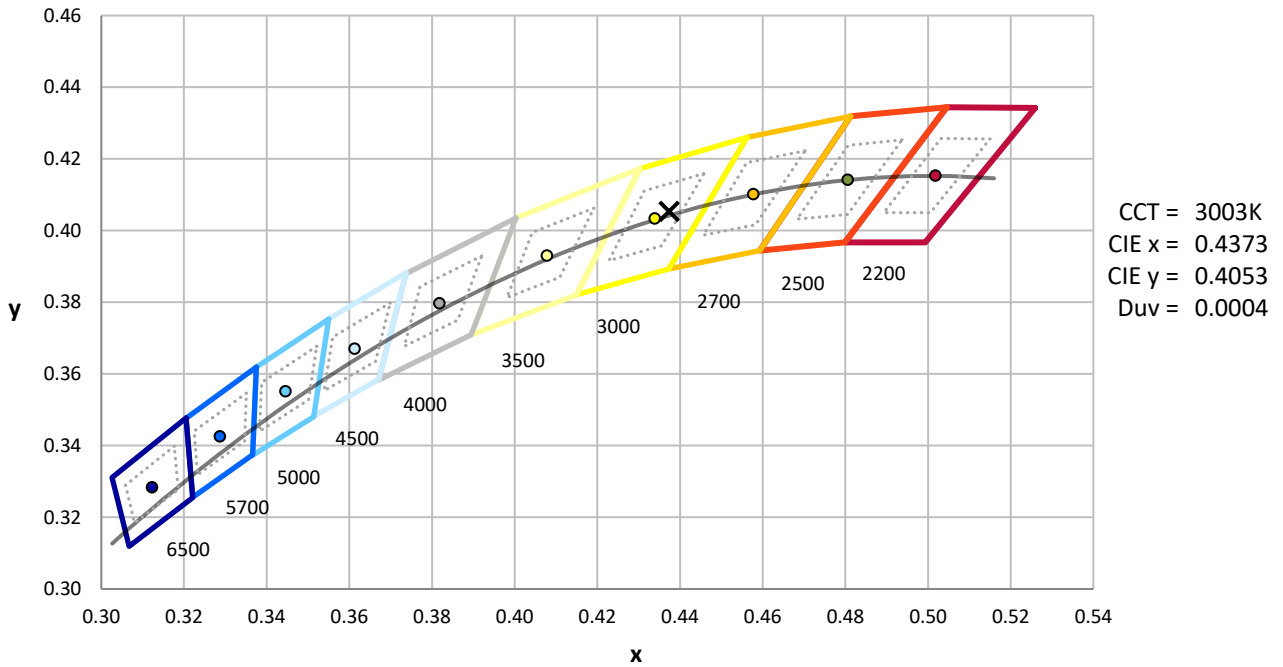
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-4

CIE 1931 Chromaticity Diagram



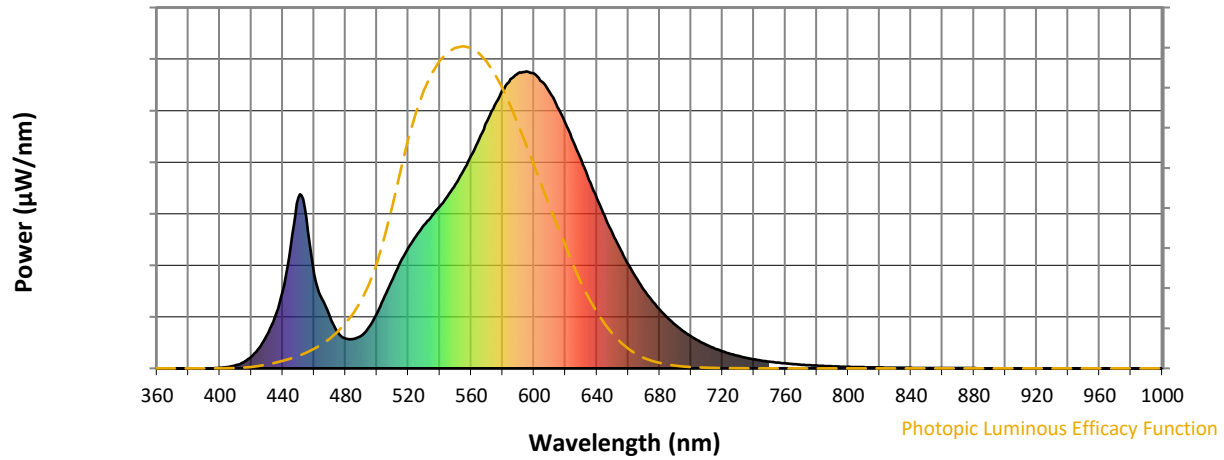
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

Photopic Flux vs. Wavelength

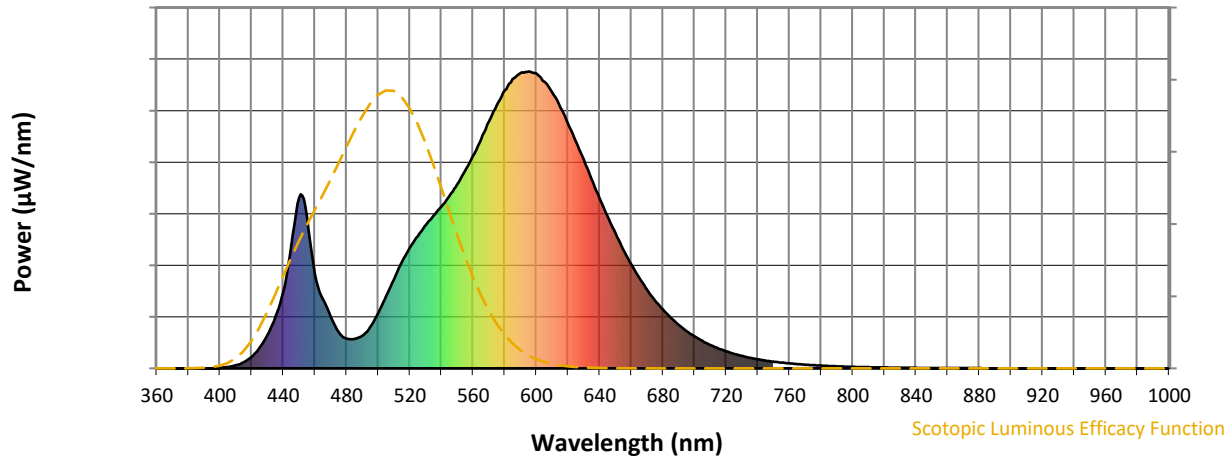


Photopic Lumens: NR

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-4

Scotopic Flux vs. Wavelength



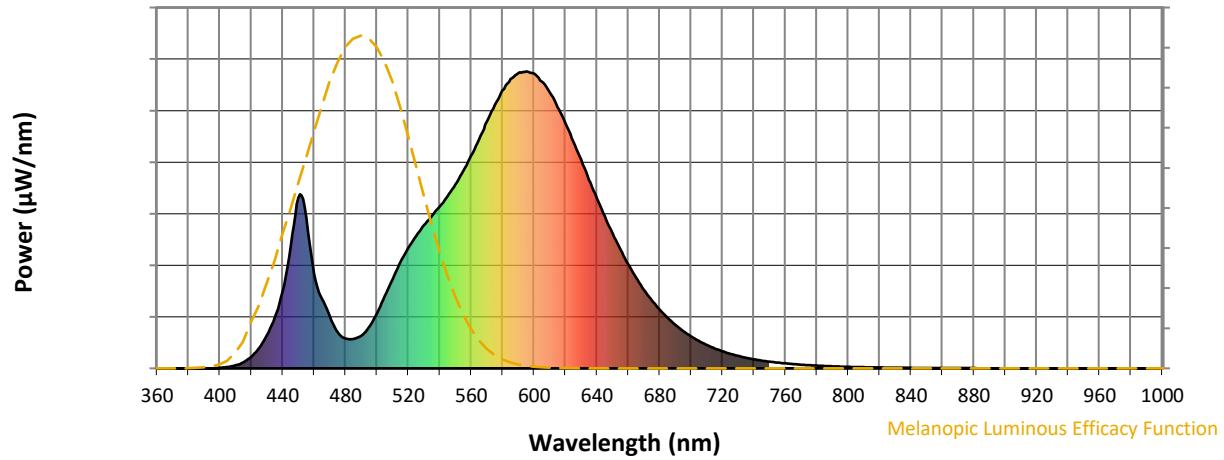
Scotopic Lumens: NR

S/P: 1.21

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

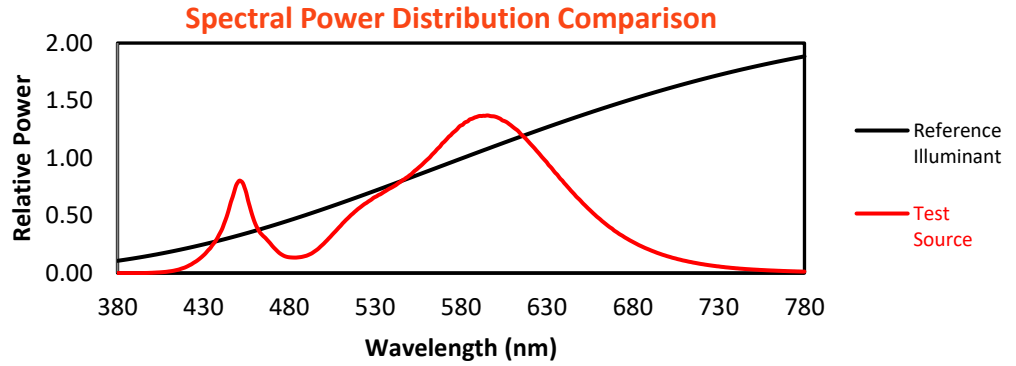
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-4

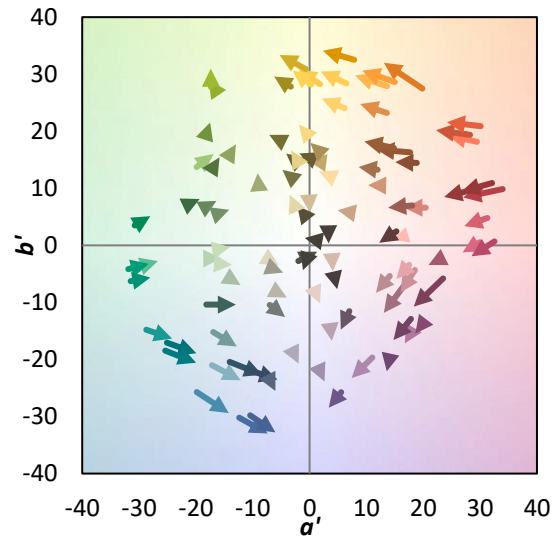
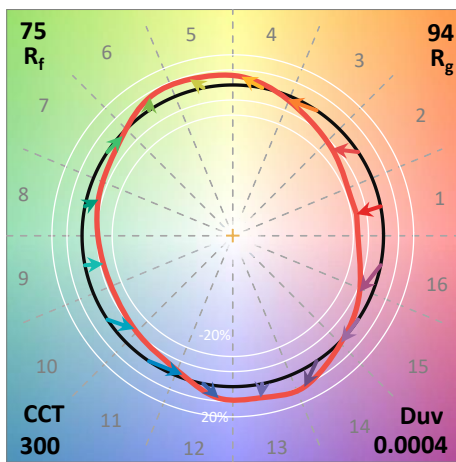
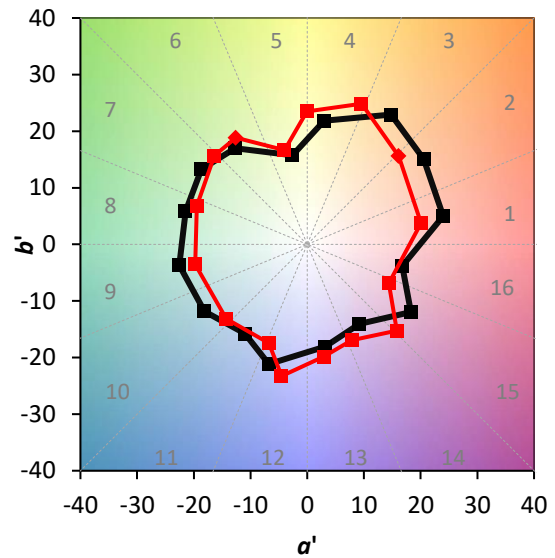
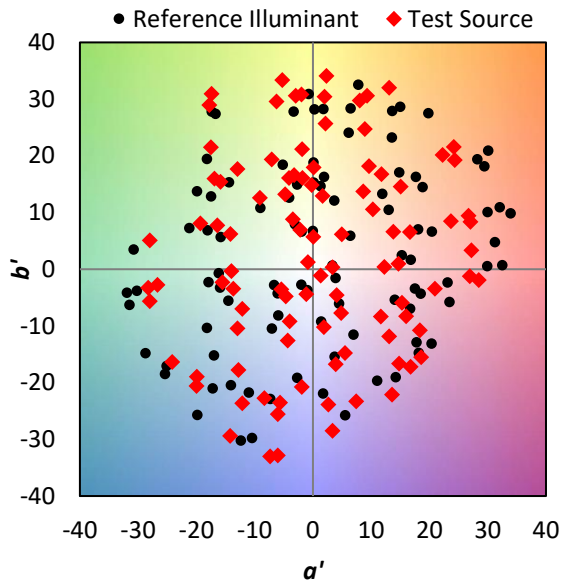
TM-30-18

Summary

$R_f = 75.2$
 $R_g = 93.8$
 CIE $R_a = 71.9$
 $R_9 = -33.7$



Color Vector Graphics

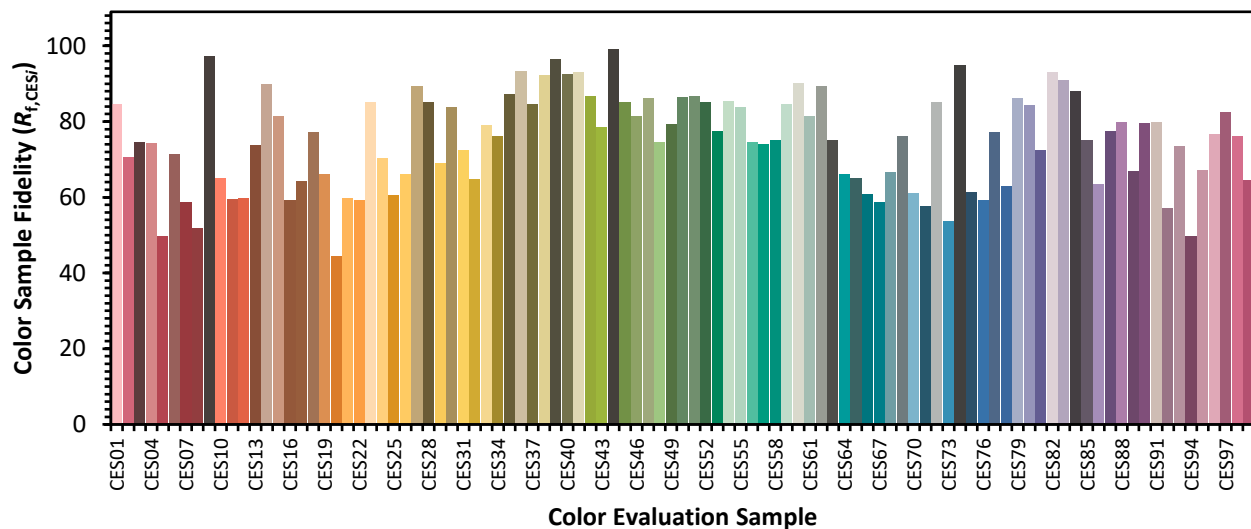


REPORT NUMBER: SP1-2406-133-4

TM-30-18

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

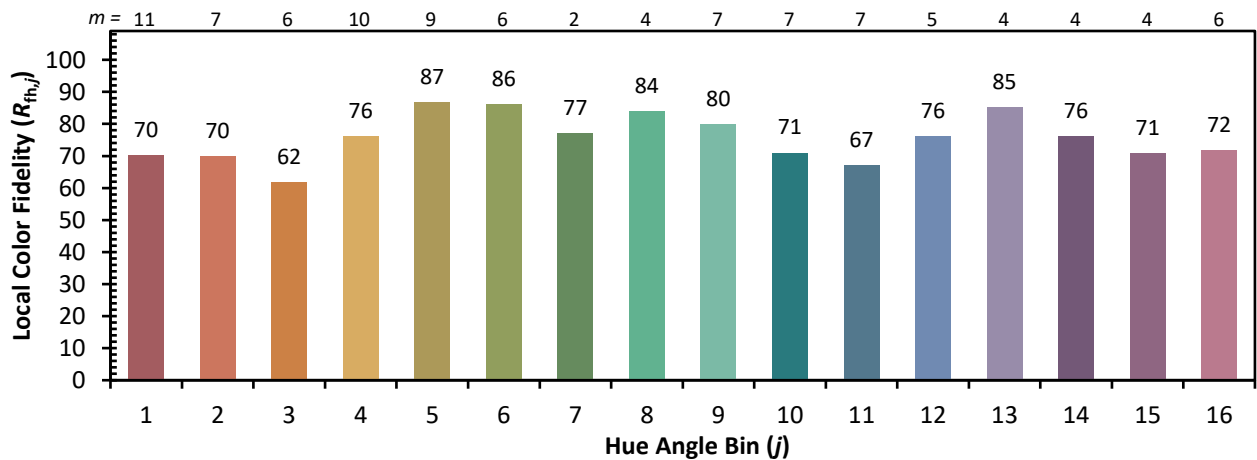
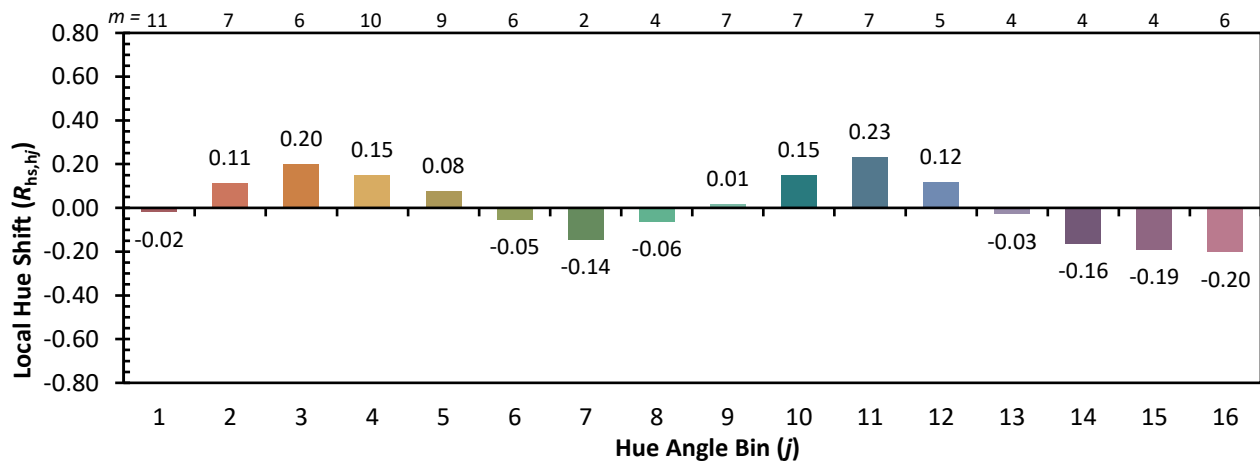
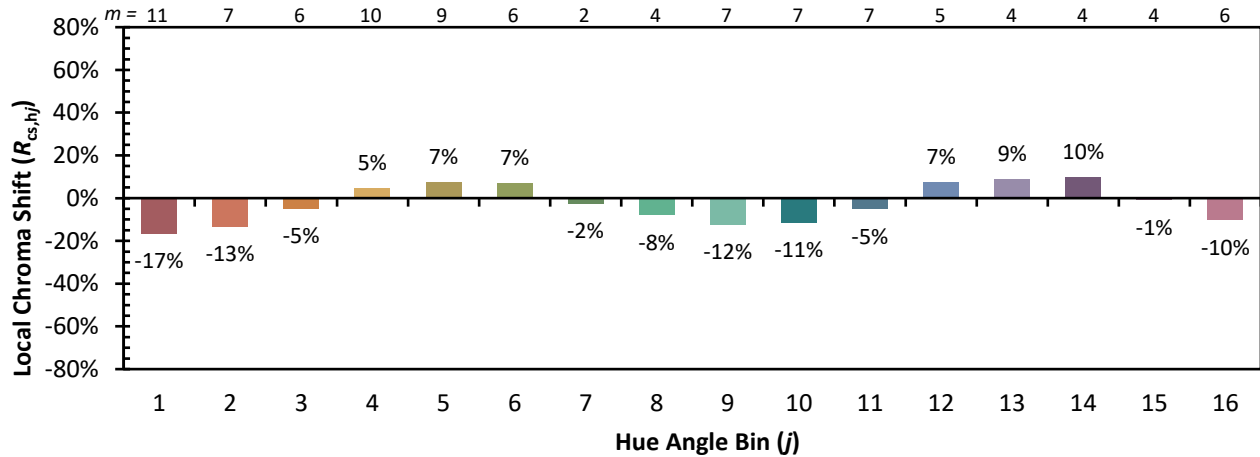
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



REPORT NUMBER: SP1-2406-133-4

TM-30-18

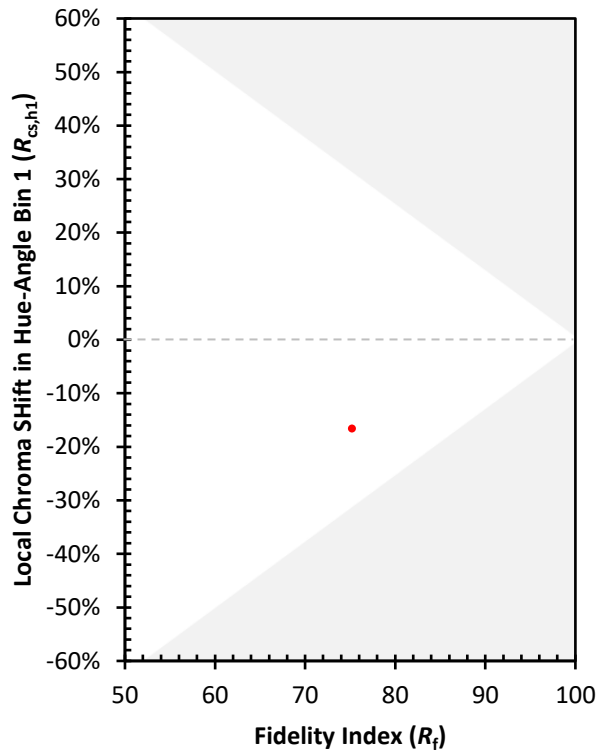
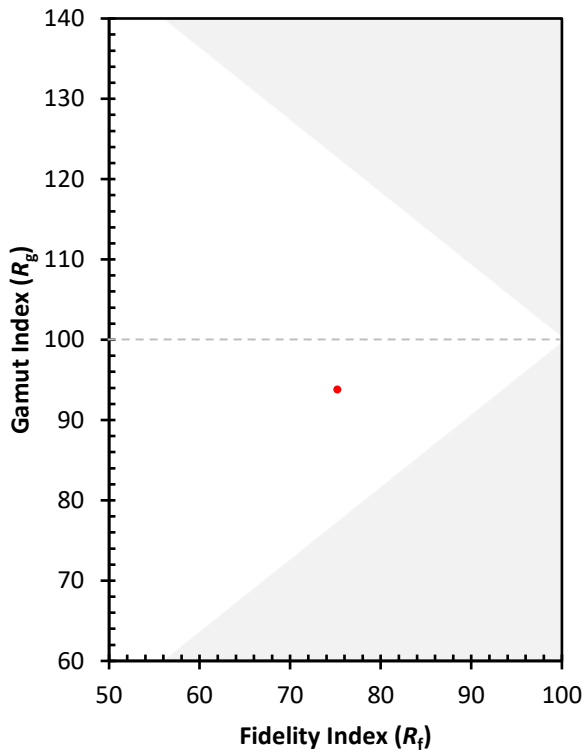
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)