

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: P856220

Luminaire Tested: **FFX-CLB-80-740-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856220
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-740-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

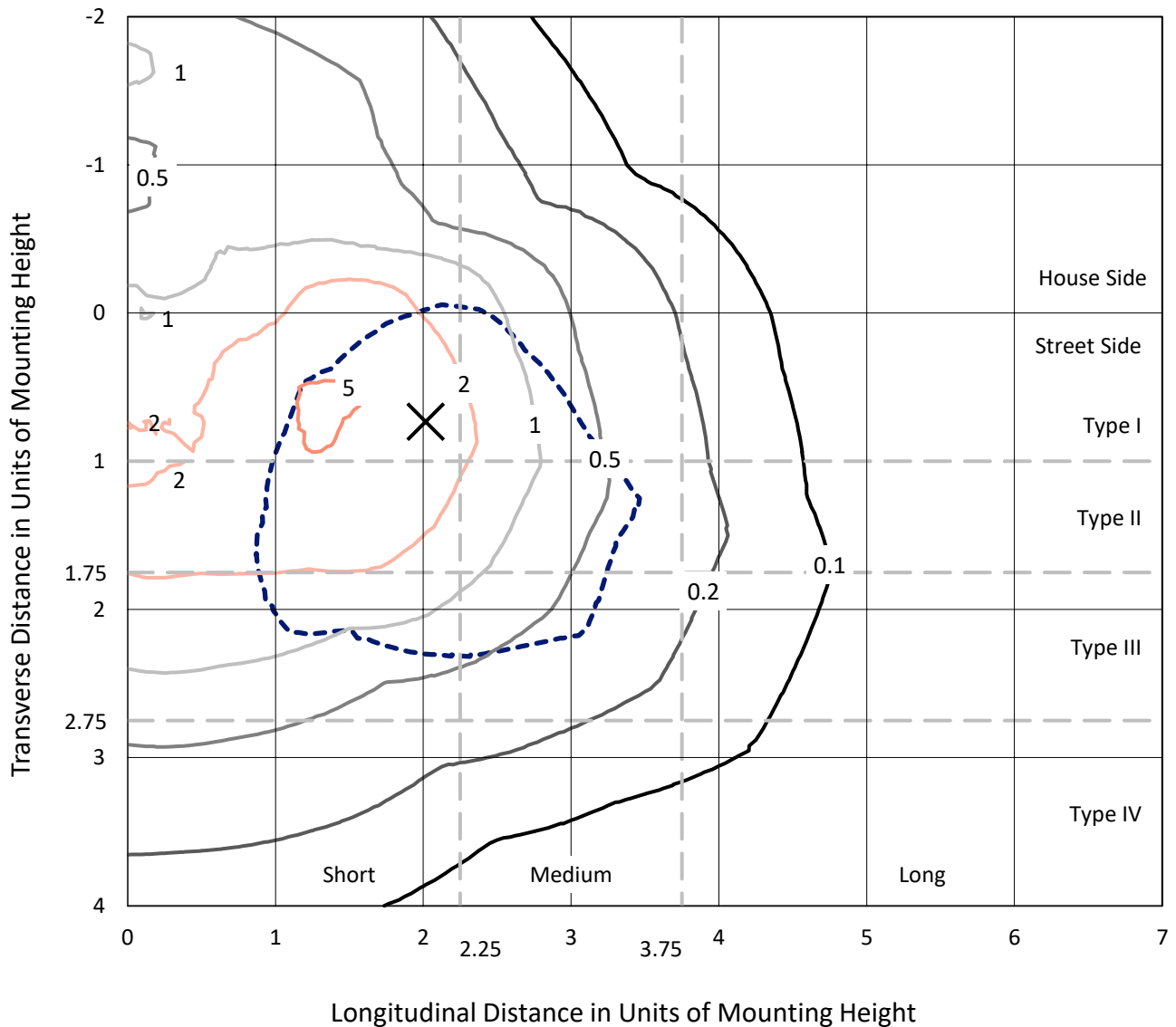
Lumens per Lamp: N/A
Luminaire Lumens: 12752.3 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

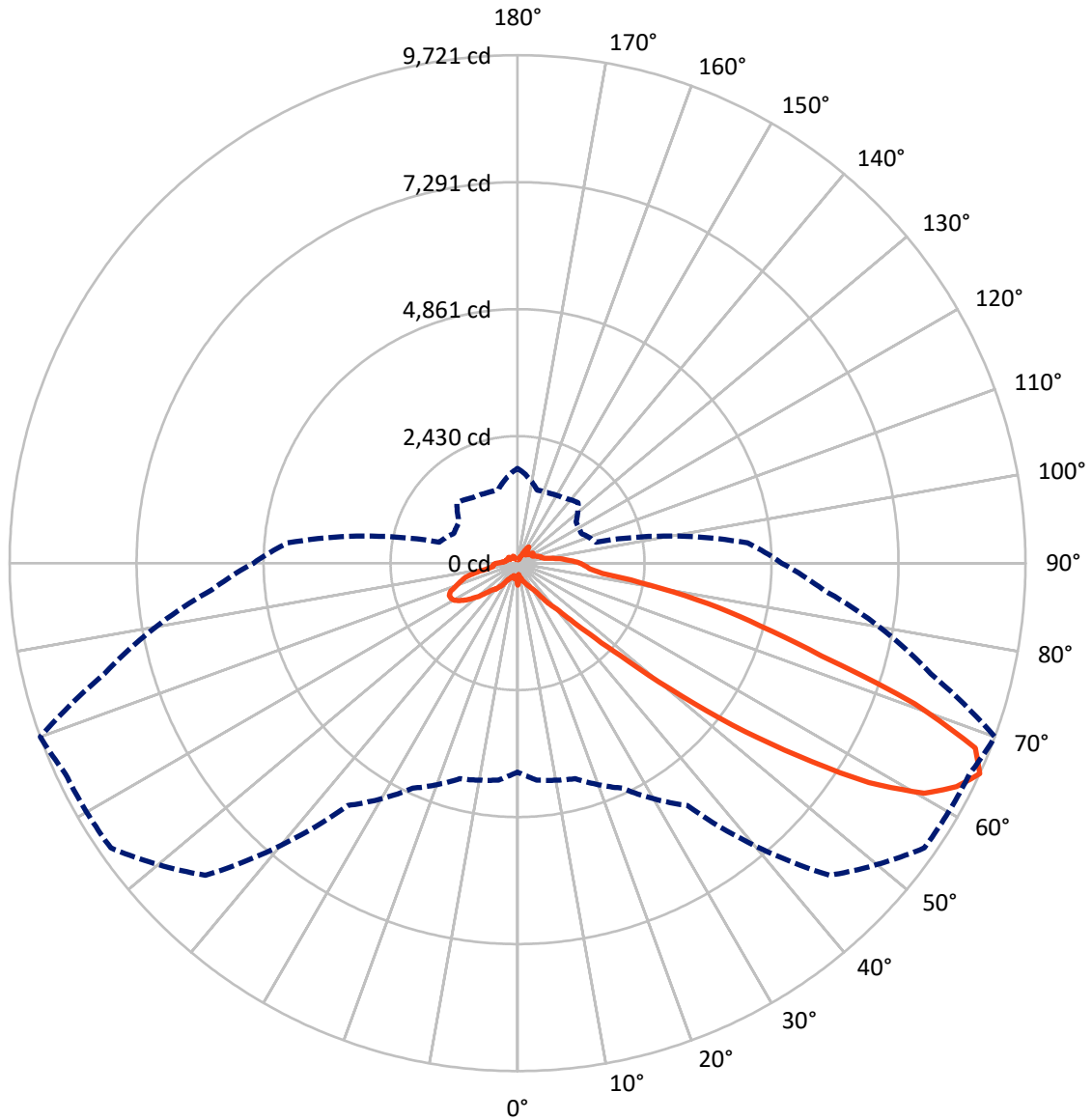
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

REPORT NUMBER: P856220
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T3-UPLR

Luminous Intensity Polar Plot



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

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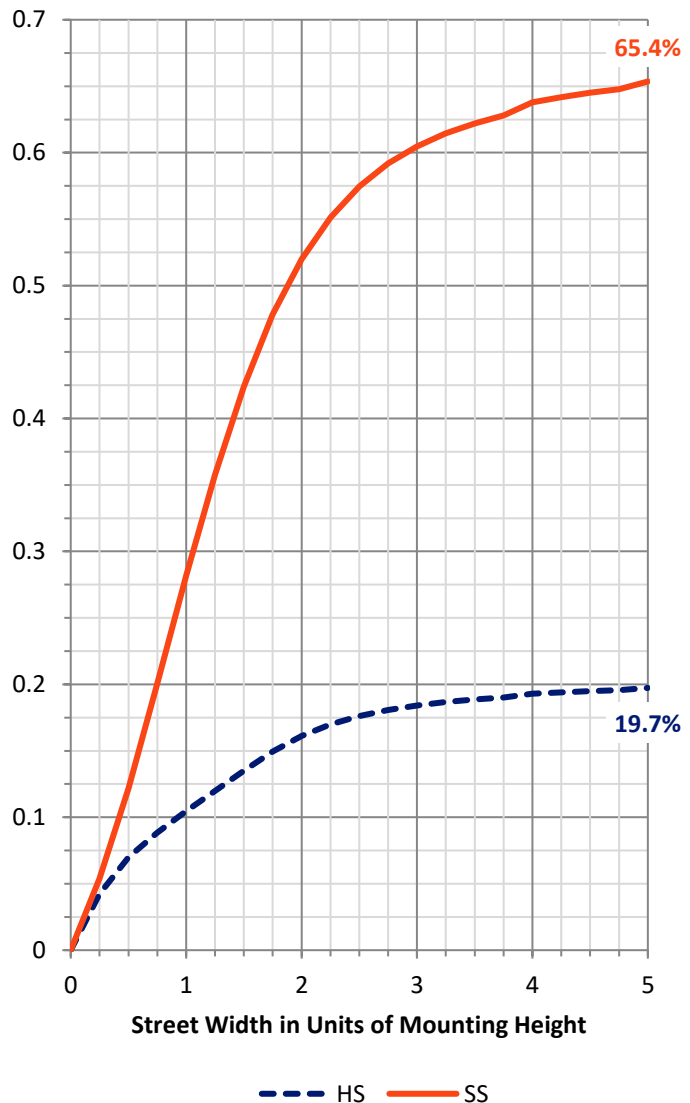
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2615.5	490.0	3105.5
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	8624.6	1022.2	9646.8
	% Fixture	67.6	8.0	75.6
Total	Lumens	11240.1	1512.2	12752.3
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	0.2
10°-20°	85.3	0.7
20°-30°	172.1	1.3
30°-40°	364.2	2.9
40°-50°	849.2	6.7
50°-60°	2530.8	19.8
60°-70°	4055.4	31.8
70°-80°	2329.7	18.3
80°-90°	826.2	6.5
90°-100°	487.3	3.8
100°-110°	294.4	2.3
110°-120°	221.3	1.7
120°-130°	187.5	1.5
130°-140°	124.4	1.0
140°-150°	116.9	0.9
150°-160°	51.8	0.4
160°-170°	21.4	0.2
170°-180°	7.1	0.1
0°-90°	11240.1	88.1
0°-180°	12752.3	100.0



REPORT NUMBER: P856220

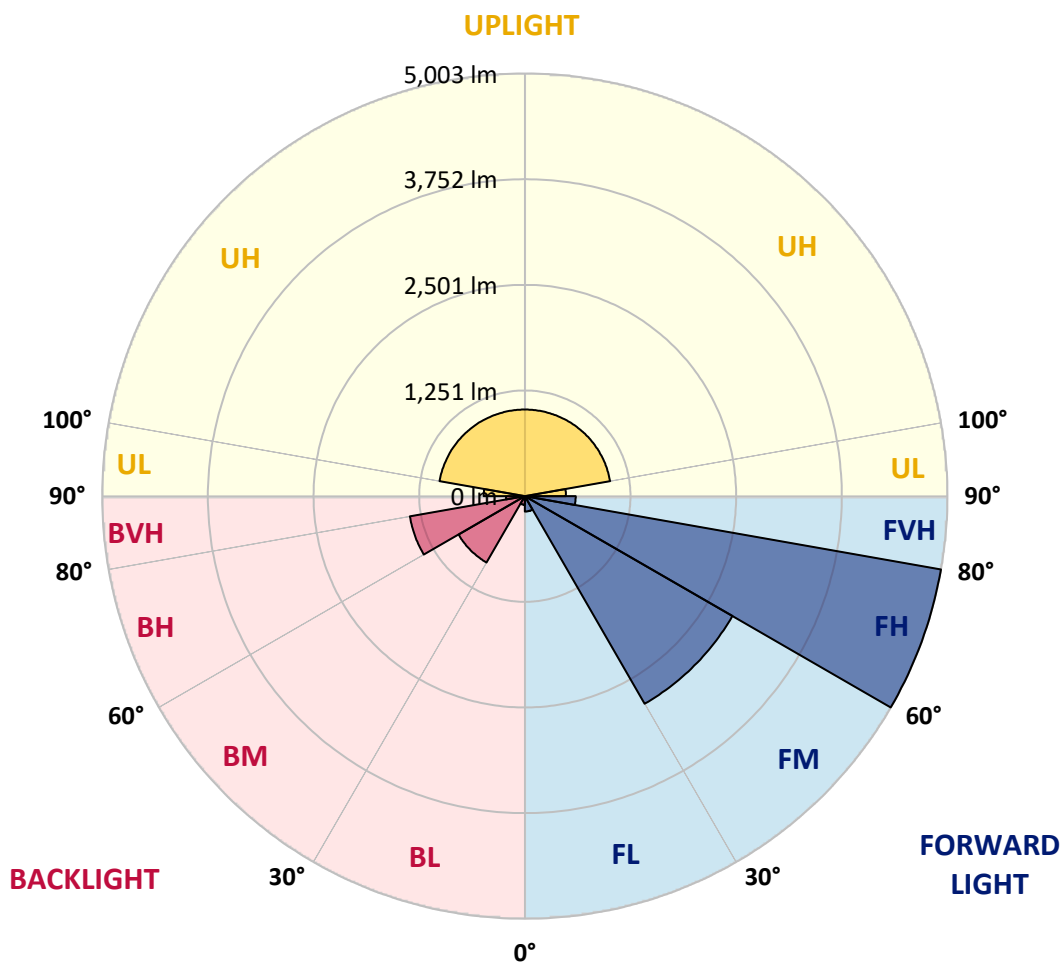
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.7	1.4			
FM (30°-60°)	2837.5	22.3			
FH (60°-80°)	5002.6	39.2			G3/7500
FVH (80°-90°)	601.9	4.7			G4/750
BL (0°-30°)	101.9	0.8	B0/110		
BM (30°-60°)	906.8	7.1	B1/1000		
BH (60°-80°)	1382.5	10.8	B3/2500		G3/2500
BVH (80°-90°)	224.4	1.8			G2/225
UL (90°-100°)	487.3	3.8		U3/500	
UH (100°-180°)	1024.9	8.0		U5	

BUG Rating: B3-U5-G4

Type III Short





REPORT NUMBER: P856220

CATALOG NUMBER: FFX-CLB-80-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0
2.5°	352.7	350.0	356.8	362.2	369.0	359.5	343.3	359.5	364.9	381.1	393.3
5°	300.0	301.4	308.1	323.0	336.5	333.8	291.9	237.9	221.6	214.9	216.2
7.5°	297.3	296.0	291.9	290.6	298.7	328.4	324.4	285.2	255.4	229.8	204.1
10°	313.5	317.6	321.7	321.7	316.2	297.3	296.0	293.3	282.5	270.3	254.1
12.5°	387.9	393.3	397.3	383.8	366.2	347.3	332.5	308.1	297.3	290.6	278.4
15°	469.0	474.4	467.6	441.9	410.8	375.7	362.2	363.5	348.7	331.1	305.4
17.5°	512.2	509.5	481.1	451.4	427.1	400.0	381.1	369.0	363.5	356.8	331.1
20°	485.2	478.4	460.9	448.7	446.0	431.1	419.0	408.1	401.4	386.5	355.4
22.5°	464.9	464.9	462.2	459.5	475.7	469.0	463.6	448.7	439.2	420.3	374.4
25°	490.6	490.6	491.9	487.9	509.5	509.5	509.5	493.3	481.1	454.1	398.7
27.5°	527.1	525.7	529.8	527.1	546.0	550.0	558.2	546.0	528.4	496.0	425.7
30°	566.3	566.3	570.3	573.0	591.9	601.4	610.9	605.5	583.8	544.6	471.7
32.5°	608.2	606.8	619.0	632.5	643.3	660.9	664.9	678.4	656.8	610.9	539.2
35°	669.0	673.0	705.5	733.9	764.9	775.7	794.7	847.4	825.8	763.6	681.1
37.5°	967.7	947.4	939.3	906.8	902.8	966.3	989.3	1039.3	996.0	912.2	786.6
40°	1025.8	1001.4	990.6	959.5	970.4	1101.5	1078.5	1258.2	1152.8	1019.0	937.9
42.5°	966.3	962.2	1089.3	1113.6	1100.1	1308.2	1263.6	1596.1	1483.9	1173.1	1082.5
45°	1166.3	1155.5	1209.6	1252.8	1286.6	1661.0	1633.9	1984.0	1935.3	1428.5	1339.3
47.5°	1316.3	1305.5	1367.7	1512.3	1709.6	2115.1	2273.2	2801.6	2636.7	1965.0	1762.3
50°	1765.0	1758.3	1925.9	2081.3	2407.0	3005.7	3439.5	4009.8	3767.9	2744.8	2371.8
52.5°	2189.4	2211.0	2407.0	2705.7	3050.3	4131.5	4750.4	5150.5	5147.8	3574.6	3044.9
55°	2493.5	2566.4	2797.6	3336.8	3815.2	5130.2	5965.4	6261.4	6510.0	4769.4	3708.4
57.5°	3084.1	3211.1	3432.7	3966.6	4584.2	6338.4	7530.4	7481.8	7929.1	6008.7	4430.1
60°	3690.9	3839.5	3913.9	4404.5	5215.3	7502.0	8606.2	8492.7	8942.7	7087.1	5189.7
62.5°	3880.1	4026.0	4099.0	4632.9	5670.8	8161.5	9102.2	9146.8	9426.5	7856.1	5639.7
65°	3999.0	4166.6	4272.0	4753.1	5661.3	8449.4	9503.6	9545.5	9721.2	8187.2	5872.2
67.5°	3977.4	4165.2	4300.4	4731.5	5347.8	8210.2	9403.6	9214.3	9449.5	7950.7	5627.5
70°	3547.6	3711.1	3846.3	4178.8	4463.9	6916.8	8135.9	7823.7	8066.9	6642.5	4646.4
72.5°	2898.9	2966.5	3084.1	3240.8	3382.7	5131.5	6206.0	5938.4	6078.9	4982.9	3481.4
75°	2381.3	2367.8	2473.2	2586.7	2542.1	3749.0	4909.9	4665.3	4796.4	3784.1	2777.3
77.5°	1765.0	1758.3	1911.0	1901.5	1833.9	2596.2	3892.2	3715.2	3732.8	2794.8	2079.9
80°	1060.9	1081.2	1229.8	1259.6	1179.8	1628.5	2778.6	2694.8	2569.2	1909.6	1458.2
82.5°	744.7	775.7	854.1	886.6	847.4	1189.3	1840.7	1782.6	1633.9	1385.3	1027.1
85°	759.5	764.9	774.4	777.1	759.5	1067.7	1428.5	1396.1	1386.6	1160.9	847.4
87.5°	759.5	771.7	779.8	778.4	747.4	1000.1	1317.7	1266.3	1278.5	1085.2	819.0
90°	681.1	702.8	701.4	705.5	679.8	904.1	1194.7	1152.8	1169.0	978.5	744.7
92.5°	556.8	571.7	586.5	614.9	577.1	769.0	1009.6	970.4	990.6	832.5	633.8
95°	517.6	531.1	540.6	555.5	517.6	683.8	893.3	846.0	854.1	706.8	536.5
97.5°	419.0	427.1	437.9	440.6	413.6	525.7	679.8	639.2	644.7	548.7	421.7
100°	351.4	358.1	367.6	367.6	350.0	435.2	537.9	516.3	513.6	448.7	356.8
102.5°	332.5	335.2	350.0	347.3	329.8	401.4	486.5	473.0	474.4	416.3	335.2
105°	327.1	327.1	341.9	335.2	320.3	382.5	455.4	451.4	450.0	396.0	321.7
107.5°	321.7	321.7	336.5	329.8	317.6	360.8	428.4	414.9	413.6	377.1	304.1
110°	300.0	304.1	320.3	312.2	302.7	340.6	393.3	383.8	383.8	355.4	290.6



REPORT NUMBER: P856220
 CATALOG NUMBER: FFX-CLB-80-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	266.2	268.9	283.8	277.1	270.3	302.7	348.7	336.5	337.9	318.9	271.6
115°	248.7	252.7	267.6	258.1	252.7	282.5	323.0	314.9	317.6	300.0	256.8
117.5°	250.0	251.4	262.2	263.5	252.7	277.1	298.7	301.4	305.4	294.6	260.8
120°	304.1	297.3	302.7	296.0	290.6	318.9	344.6	347.3	346.0	325.7	259.5
122.5°	306.8	293.3	308.1	298.7	293.3	324.4	352.7	359.5	352.7	335.2	264.9
125°	244.6	248.7	250.0	252.7	258.1	291.9	306.8	308.1	309.5	304.1	256.8
127.5°	214.9	213.5	206.8	208.1	220.3	250.0	260.8	268.9	263.5	260.8	231.1
130°	205.4	208.1	206.8	206.8	213.5	236.5	244.6	256.8	252.7	247.3	210.8
132.5°	189.2	191.9	204.1	218.9	216.2	224.3	227.0	239.2	240.6	240.6	212.2
135°	179.7	182.4	191.9	210.8	205.4	209.5	208.1	218.9	220.3	221.6	200.0
137.5°	183.8	185.2	179.7	182.4	186.5	204.1	209.5	220.3	220.3	214.9	186.5
140°	193.3	193.3	181.1	177.0	185.2	212.2	223.0	240.6	237.9	228.4	193.3
142.5°	178.4	181.1	187.9	196.0	213.5	287.9	287.9	321.7	332.5	335.2	233.8
145°	232.5	233.8	236.5	240.6	274.3	377.1	343.3	367.6	377.1	386.5	281.1
147.5°	267.6	270.3	267.6	256.8	287.9	323.0	306.8	317.6	328.4	331.1	282.5
150°	209.5	206.8	205.4	204.1	237.9	248.7	235.2	233.8	241.9	248.7	218.9
152.5°	152.7	151.4	150.0	148.7	178.4	171.6	162.2	162.2	164.9	166.2	154.1
155°	135.1	133.8	131.1	132.4	151.4	144.6	136.5	133.8	136.5	135.1	128.4
157.5°	110.8	108.1	108.1	113.5	123.0	114.9	109.5	105.4	106.8	105.4	106.8
160°	91.9	90.5	91.9	98.7	104.1	97.3	91.9	89.2	89.2	91.9	97.3
162.5°	82.4	81.1	82.4	85.1	87.8	81.1	77.0	77.0	78.4	83.8	94.6
165°	71.6	71.6	73.0	74.3	75.7	71.6	70.3	70.3	73.0	81.1	93.3
167.5°	68.9	68.9	68.9	68.9	68.9	67.6	66.2	70.3	73.0	77.0	85.1
170°	67.6	66.2	67.6	67.6	67.6	67.6	67.6	71.6	71.6	73.0	77.0
172.5°	68.9	68.9	68.9	70.3	73.0	74.3	73.0	75.7	74.3	74.3	74.3
175°	70.3	70.3	71.6	73.0	74.3	75.7	77.0	77.0	77.0	78.4	78.4
177.5°	70.3	70.3	71.6	73.0	74.3	71.6	68.9	67.6	66.2	66.2	66.2
180°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2



REPORT NUMBER: P856220

CATALOG NUMBER: FFX-CLB-80-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0
2.5°	382.5	348.7	301.4	321.7	383.8	371.7	309.5	271.6	274.3	301.4	304.1
5°	223.0	229.8	260.8	325.7	337.9	279.8	225.7	217.6	262.2	324.4	336.5
7.5°	201.4	201.4	227.0	316.2	355.4	291.9	220.3	198.7	232.5	283.8	291.9
10°	243.3	235.2	237.9	270.3	285.2	233.8	197.3	187.9	206.8	213.5	210.8
12.5°	274.3	279.8	305.4	298.7	233.8	190.6	178.4	177.0	187.9	194.6	193.3
15°	294.6	285.2	266.2	244.6	223.0	198.7	181.1	170.3	158.1	152.7	152.7
17.5°	313.5	294.6	260.8	240.6	218.9	201.4	185.2	168.9	163.5	164.9	164.9
20°	336.5	313.5	282.5	259.5	233.8	209.5	189.2	171.6	167.6	168.9	167.6
22.5°	354.1	333.8	301.4	271.6	244.6	217.6	197.3	179.7	174.3	173.0	173.0
25°	375.7	358.1	324.4	287.9	255.4	229.8	212.2	191.9	182.4	179.7	179.7
27.5°	404.1	389.2	351.4	312.2	274.3	244.6	225.7	204.1	190.6	185.2	183.8
30°	447.3	427.1	385.2	336.5	297.3	266.2	243.3	216.2	200.0	190.6	189.2
32.5°	512.2	486.5	431.1	370.3	323.0	290.6	262.2	228.4	208.1	197.3	196.0
35°	650.1	621.7	551.4	466.3	397.3	331.1	286.5	241.9	216.2	202.7	201.4
37.5°	736.6	685.2	600.1	523.0	439.2	400.0	343.3	283.8	227.0	209.5	206.8
40°	862.2	796.0	689.3	585.2	437.9	436.5	398.7	346.0	267.6	221.6	217.6
42.5°	955.5	870.3	736.6	620.3	441.9	454.1	421.7	375.7	317.6	258.1	251.4
45°	1146.0	1037.9	825.8	651.4	447.3	474.4	441.9	393.3	341.9	300.0	296.0
47.5°	1502.8	1352.8	998.7	710.9	508.2	541.9	483.8	427.1	377.1	335.2	325.7
50°	2001.5	1821.8	1208.2	763.6	612.2	689.3	594.6	508.2	448.7	416.3	406.8
52.5°	2586.7	2385.4	1339.3	846.0	737.9	870.3	766.3	664.9	586.5	591.9	586.5
55°	3239.5	3001.6	1454.2	970.4	898.7	1071.7	958.2	870.3	828.5	946.0	952.8
57.5°	3869.3	3615.2	1525.8	1101.5	1078.5	1304.2	1171.7	1109.6	1125.8	1470.4	1551.5
60°	4470.7	4069.3	1581.2	1224.4	1229.8	1486.6	1385.3	1373.1	1423.1	1865.0	1988.0
62.5°	4818.0	4301.7	1578.5	1304.2	1324.4	1598.8	1509.6	1516.4	1554.2	1929.9	2032.6
65°	5054.5	4419.3	1551.5	1344.7	1365.0	1639.3	1524.5	1471.8	1447.4	1704.2	1813.7
67.5°	4912.6	4192.3	1486.6	1309.6	1336.6	1574.5	1431.2	1298.8	1256.9	1396.1	1460.9
70°	4153.1	3503.0	1324.4	1190.6	1208.2	1328.5	1206.9	1062.3	1020.4	1093.3	1123.1
72.5°	3138.1	2689.4	1187.9	1100.1	1058.2	1098.7	979.8	828.5	819.0	858.2	863.6
75°	2507.0	2111.0	1082.5	992.0	879.8	921.7	778.4	616.3	604.1	606.8	593.3
77.5°	1889.4	1570.4	910.9	781.2	666.3	735.2	578.4	425.7	405.4	397.3	382.5
80°	1293.4	1090.6	619.0	523.0	473.0	539.2	412.2	312.2	310.8	308.1	291.9
82.5°	917.7	842.0	505.5	444.6	401.4	424.4	358.1	291.9	285.2	286.5	268.9
85°	802.8	762.2	487.9	450.0	408.1	406.8	341.9	273.0	270.3	271.6	255.4
87.5°	767.6	723.0	477.1	429.8	389.2	369.0	301.4	240.6	247.3	251.4	236.5
90°	687.9	642.0	432.5	383.8	344.6	309.5	255.4	217.6	228.4	231.1	217.6
92.5°	579.8	532.5	336.5	308.1	289.2	283.8	239.2	206.8	214.9	216.2	205.4
95°	490.6	447.3	293.3	271.6	258.1	256.8	216.2	187.9	191.9	190.6	181.1
97.5°	394.6	363.5	256.8	236.5	221.6	213.5	185.2	163.5	168.9	171.6	164.9
100°	336.5	318.9	239.2	221.6	204.1	193.3	168.9	151.4	156.8	162.2	156.8
102.5°	316.2	302.7	235.2	216.2	197.3	183.8	160.8	141.9	144.6	151.4	147.3
105°	300.0	287.9	228.4	208.1	190.6	175.7	156.8	133.8	132.4	139.2	137.9
107.5°	282.5	271.6	224.3	200.0	181.1	167.6	150.0	128.4	123.0	127.0	125.7
110°	273.0	262.2	216.2	190.6	170.3	158.1	141.9	124.3	117.6	118.9	118.9



REPORT NUMBER: P856220
 CATALOG NUMBER: FFX-CLB-80-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	254.1	241.9	198.7	174.3	158.1	147.3	131.1	118.9	110.8	113.5	114.9
115°	241.9	225.7	182.4	164.9	147.3	137.9	128.4	117.6	108.1	108.1	109.5
117.5°	250.0	218.9	170.3	156.8	147.3	144.6	141.9	125.7	106.8	105.4	105.4
120°	239.2	220.3	185.2	181.1	171.6	163.5	146.0	124.3	104.1	101.4	101.4
122.5°	233.8	229.8	209.5	196.0	178.4	162.2	136.5	113.5	100.0	97.3	97.3
125°	231.1	227.0	202.7	177.0	154.1	137.9	121.6	106.8	98.7	94.6	94.6
127.5°	212.2	193.3	163.5	148.7	133.8	127.0	113.5	104.1	94.6	89.2	89.2
130°	196.0	178.4	152.7	136.5	124.3	118.9	109.5	100.0	90.5	85.1	83.8
132.5°	193.3	175.7	148.7	128.4	117.6	112.2	106.8	96.0	85.1	79.7	78.4
135°	179.7	159.5	132.4	121.6	114.9	110.8	106.8	93.3	82.4	77.0	77.0
137.5°	166.2	146.0	125.7	120.3	114.9	110.8	98.7	85.1	77.0	73.0	73.0
140°	167.6	144.6	128.4	124.3	116.2	104.1	93.3	83.8	77.0	71.6	70.3
142.5°	178.4	150.0	129.7	117.6	112.2	105.4	101.4	90.5	77.0	67.6	64.9
145°	196.0	162.2	146.0	140.6	131.1	118.9	104.1	83.8	70.3	62.2	60.8
147.5°	216.2	182.4	163.5	148.7	129.7	109.5	89.2	73.0	62.2	59.5	58.1
150°	187.9	155.4	140.6	120.3	104.1	87.8	73.0	64.9	59.5	58.1	58.1
152.5°	141.9	116.2	104.1	94.6	85.1	77.0	68.9	63.5	59.5	56.8	56.8
155°	123.0	109.5	97.3	87.8	78.4	70.3	63.5	60.8	56.8	56.8	55.4
157.5°	108.1	101.4	85.1	77.0	70.3	66.2	63.5	59.5	58.1	56.8	56.8
160°	98.7	94.6	78.4	71.6	67.6	64.9	64.9	62.2	58.1	56.8	56.8
162.5°	96.0	91.9	75.7	68.9	64.9	66.2	68.9	67.6	62.2	59.5	59.5
165°	94.6	91.9	77.0	67.6	64.9	66.2	73.0	74.3	67.6	63.5	62.2
167.5°	86.5	85.1	81.1	74.3	70.3	70.3	74.3	75.7	73.0	73.0	71.6
170°	78.4	78.4	79.7	81.1	78.4	74.3	71.6	71.6	75.7	79.7	81.1
172.5°	75.7	77.0	79.7	83.8	83.8	78.4	74.3	73.0	77.0	82.4	83.8
175°	79.7	81.1	82.4	82.4	79.7	78.4	77.0	75.7	78.4	83.8	85.1
177.5°	66.2	66.2	67.6	67.6	66.2	67.6	66.2	63.5	63.5	63.5	63.5
180°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-1

Test Date: 07/11/2024

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

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

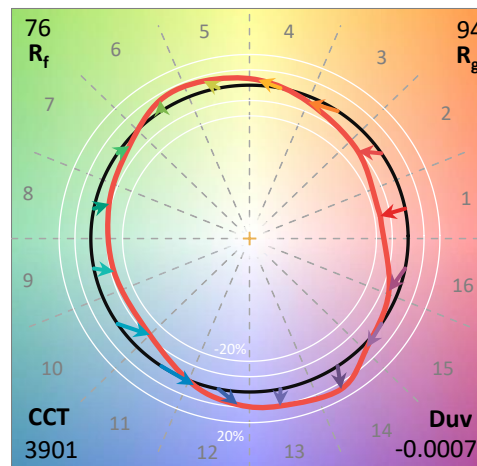
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-740-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

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

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



Test Conditions

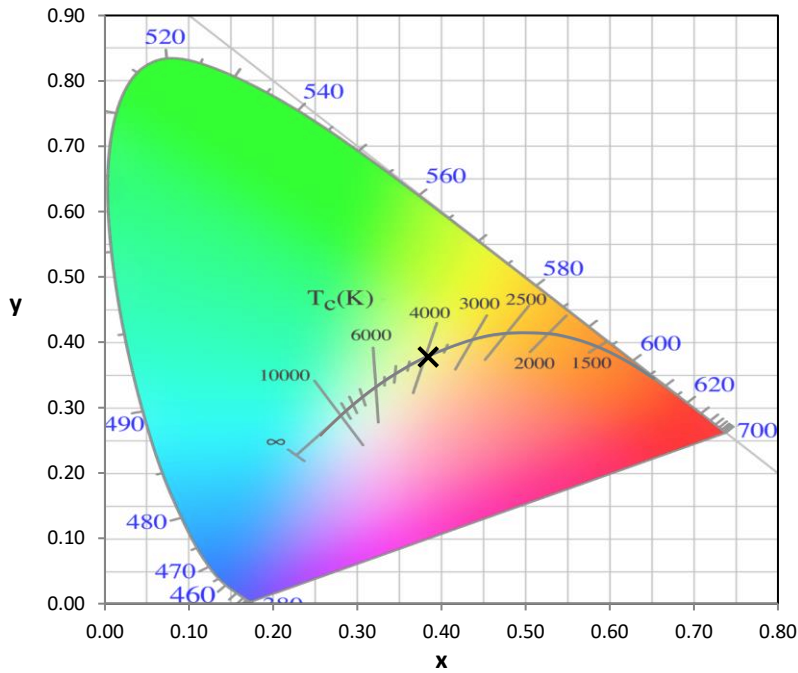
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

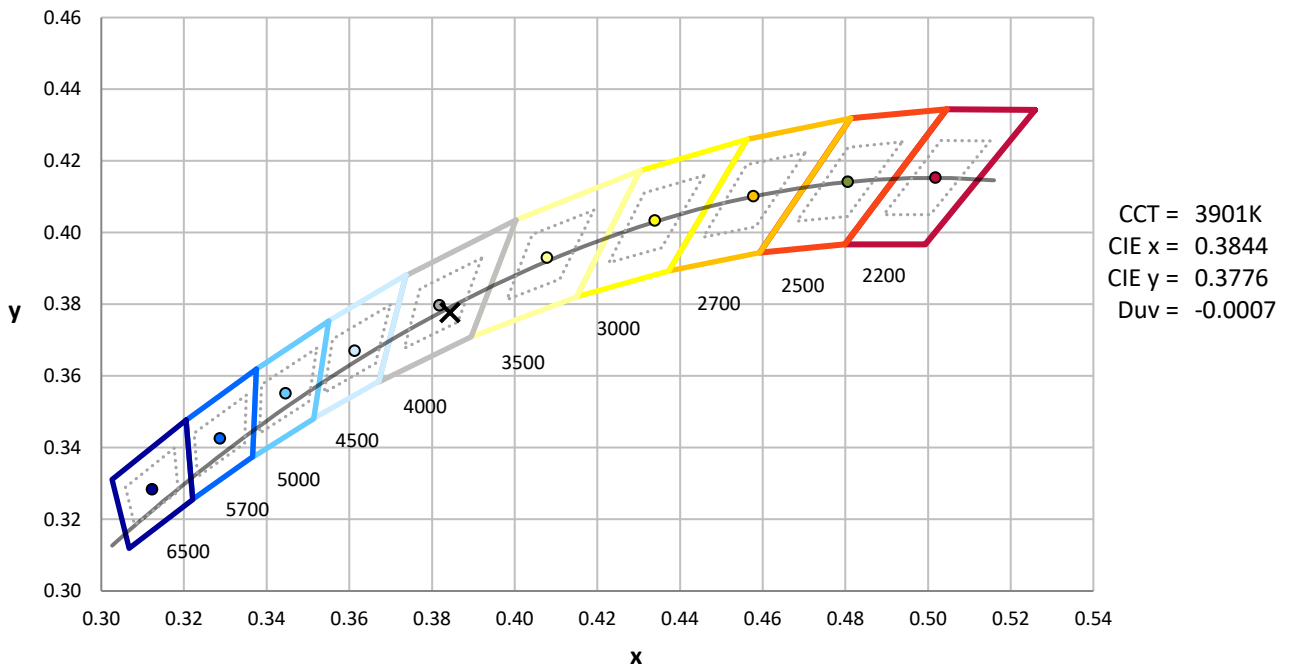
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-1

CIE 1931 Chromaticity Diagram



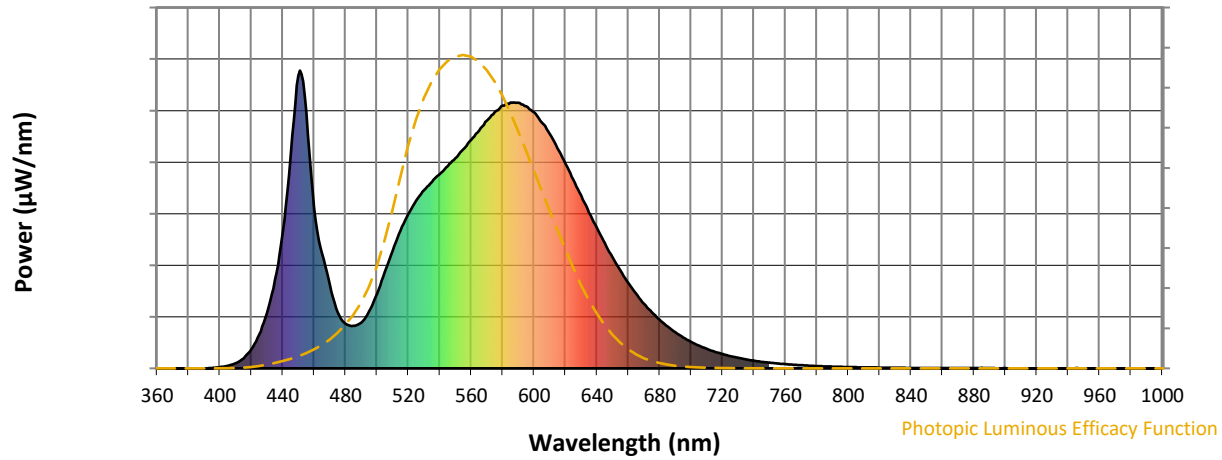
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-1

Photopic Flux vs. Wavelength

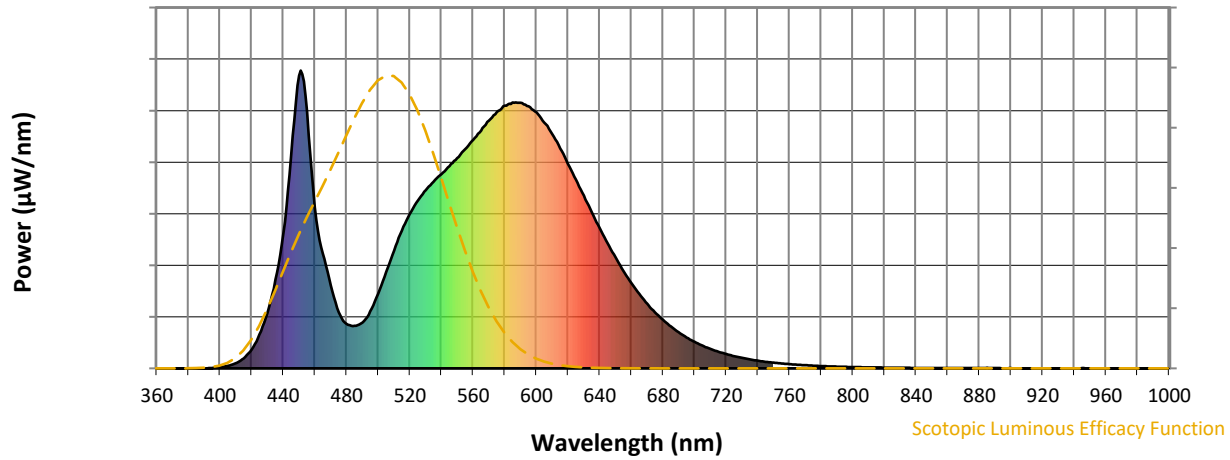


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2406-133-1

Scotopic Flux vs. Wavelength



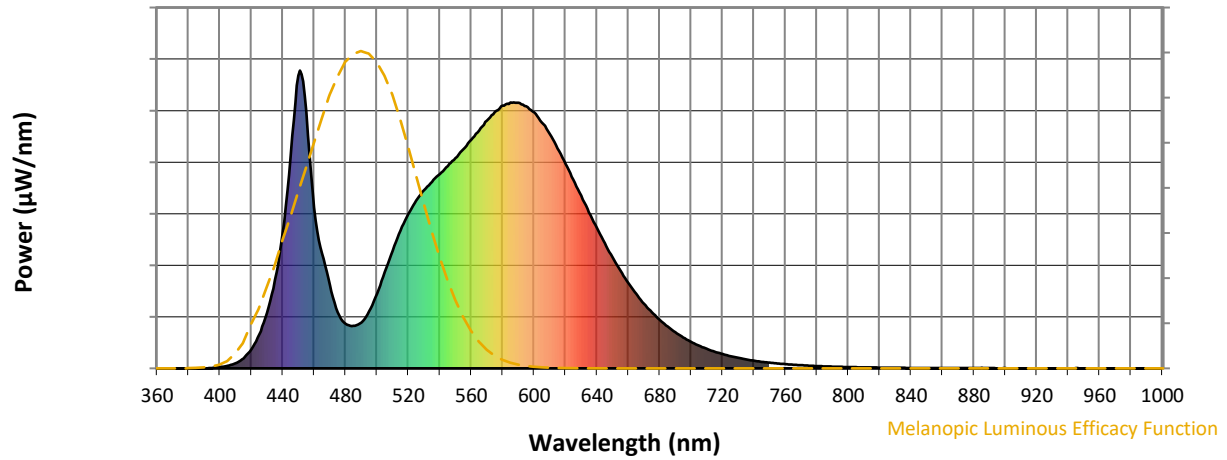
Scotopic Lumens: NR

S/P: 1.53

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

REPORT NUMBER: SP1-2406-133-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

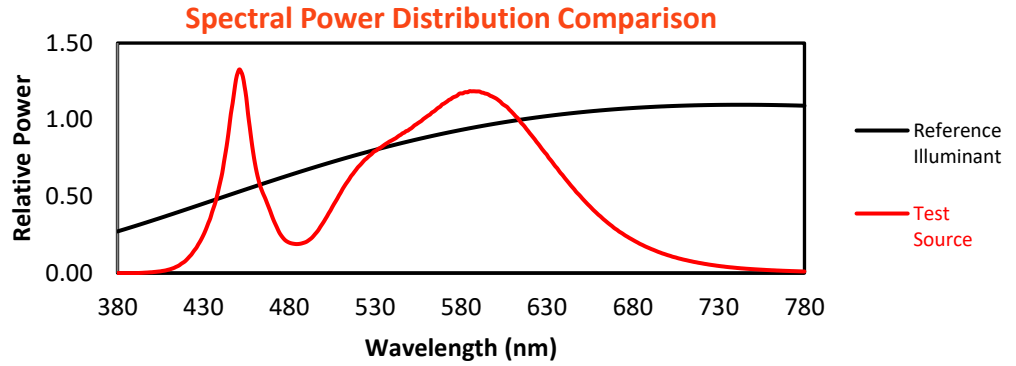
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251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

REPORT NUMBER: SP1-2406-133-1

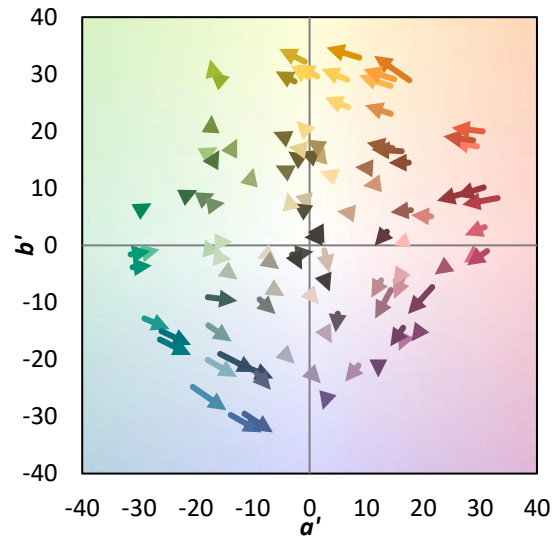
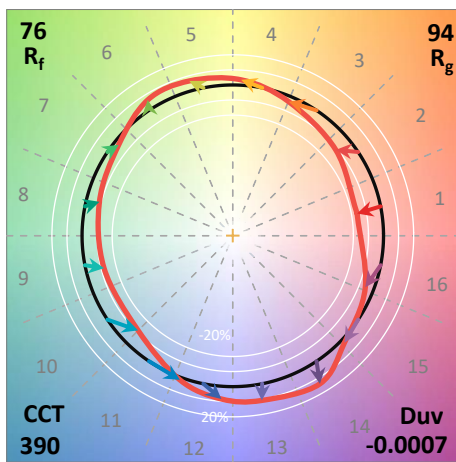
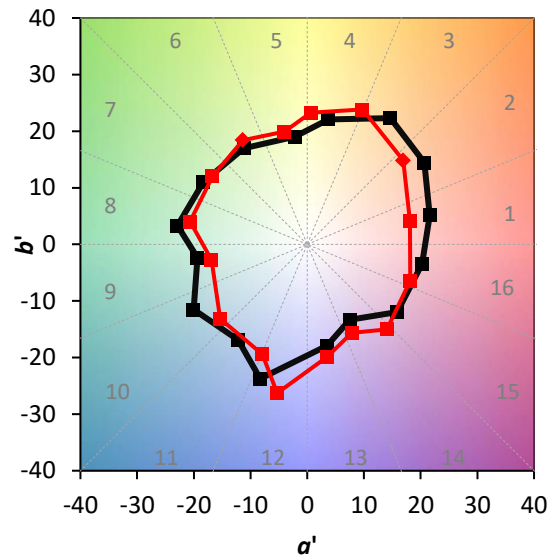
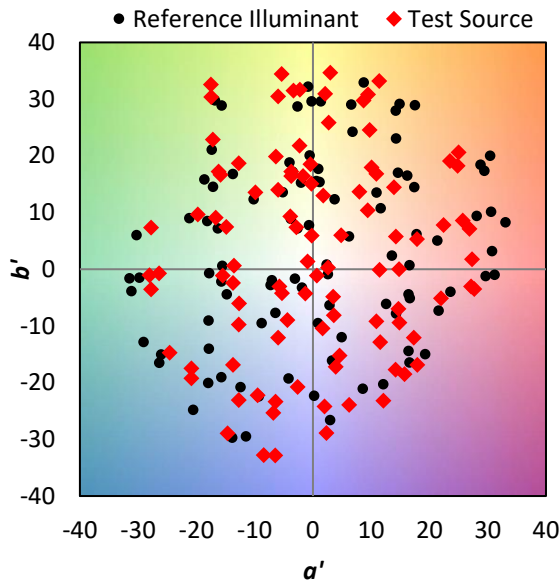
TM-30-18

Summary

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



Color Vector Graphics

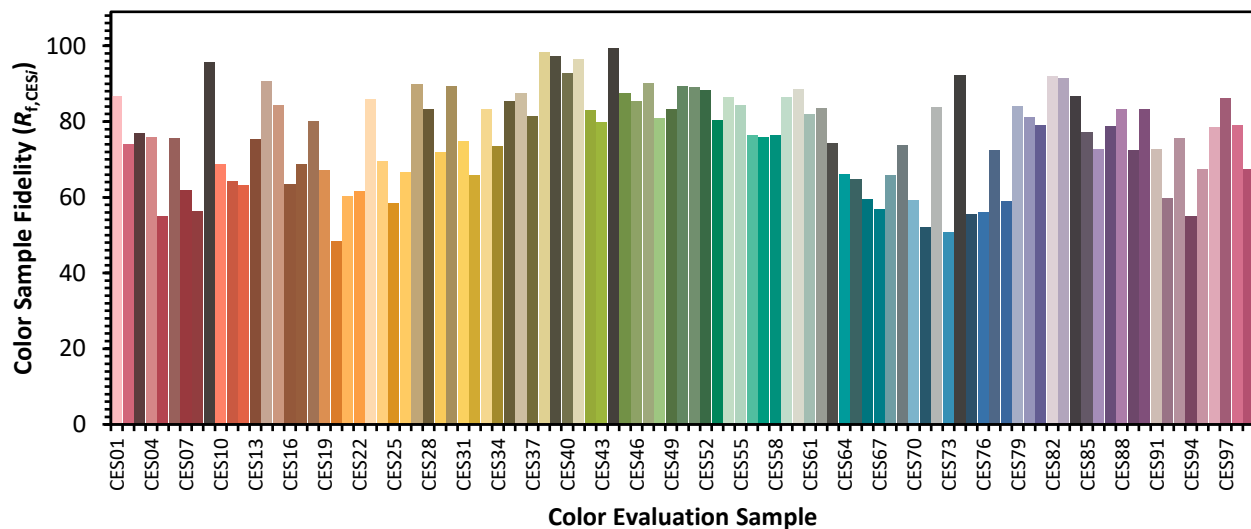


REPORT NUMBER: SP1-2406-133-1

TM-30-18

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

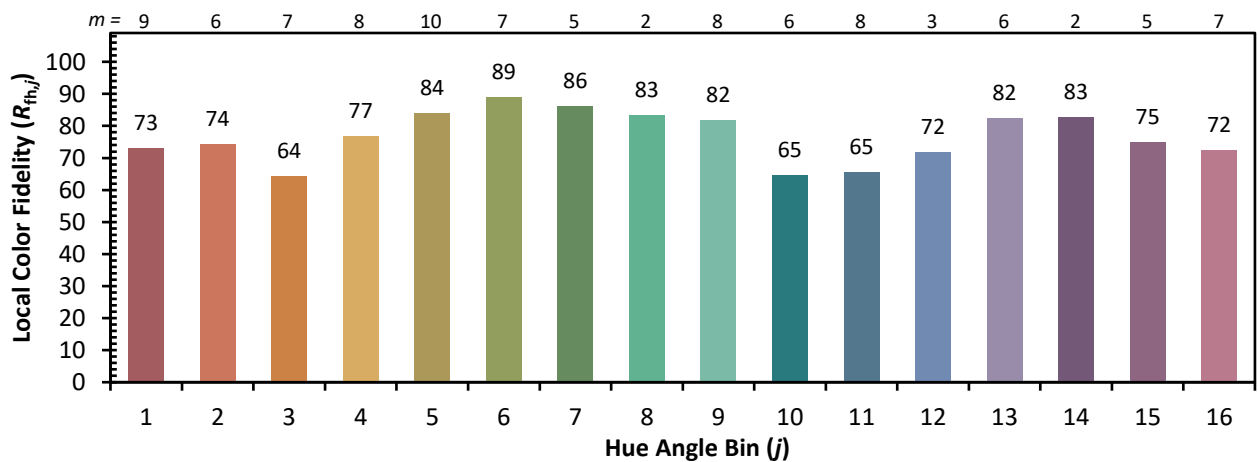
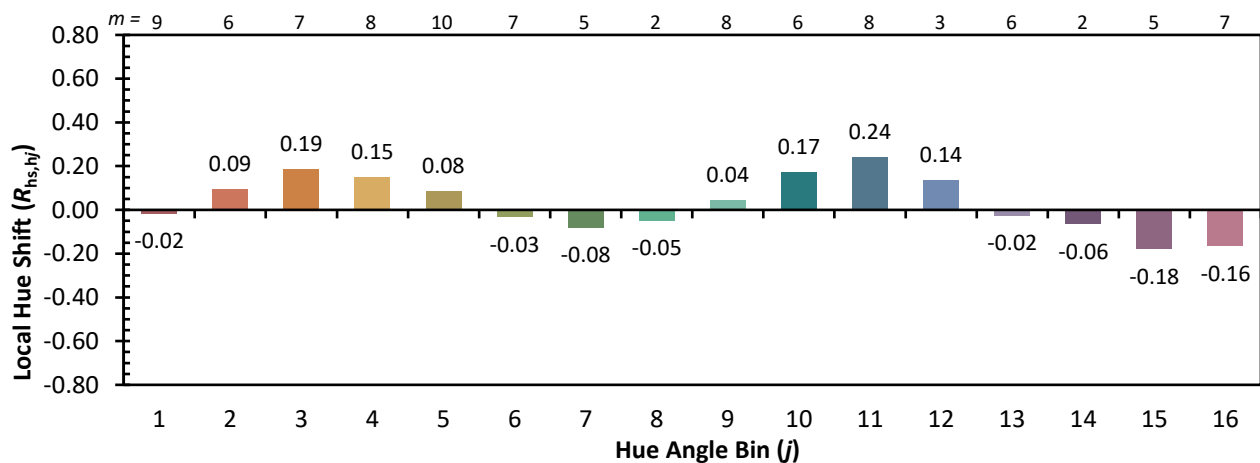
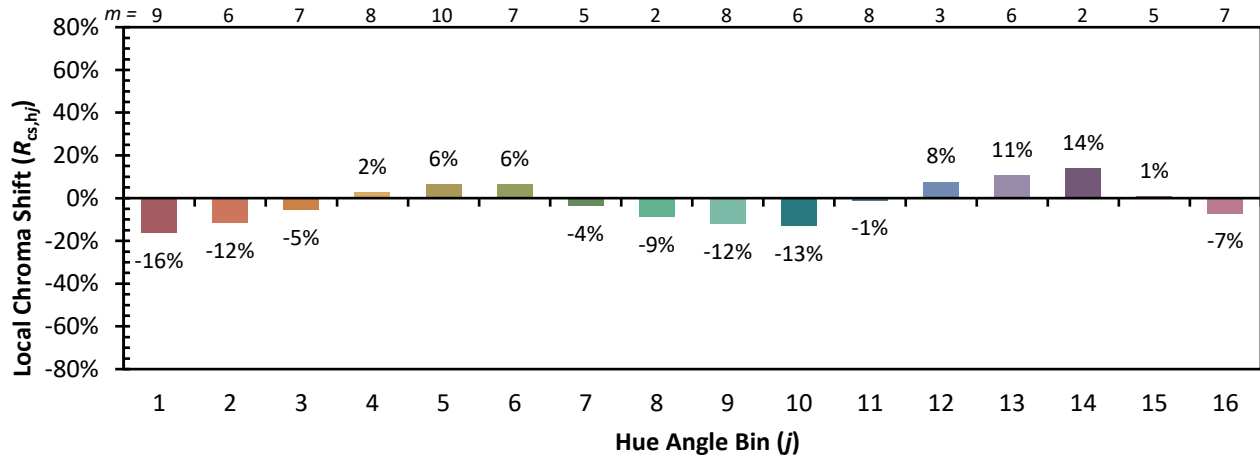
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82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



REPORT NUMBER: SP1-2406-133-1

TM-30-18

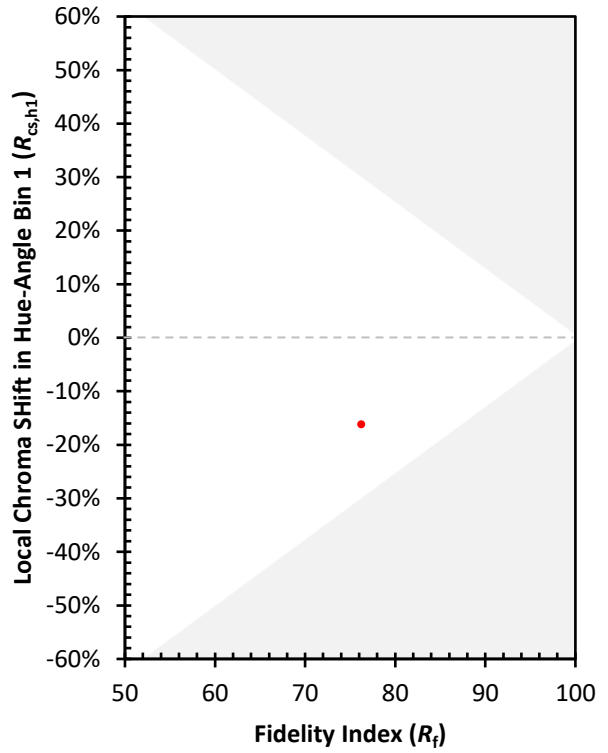
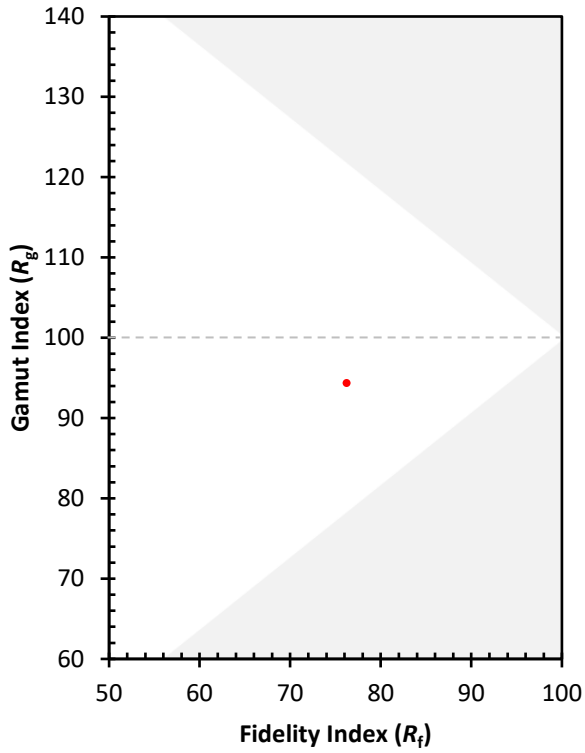
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)