

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: P856229

Luminaire Tested: **FFX-CLB-80-750-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856229
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-750-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

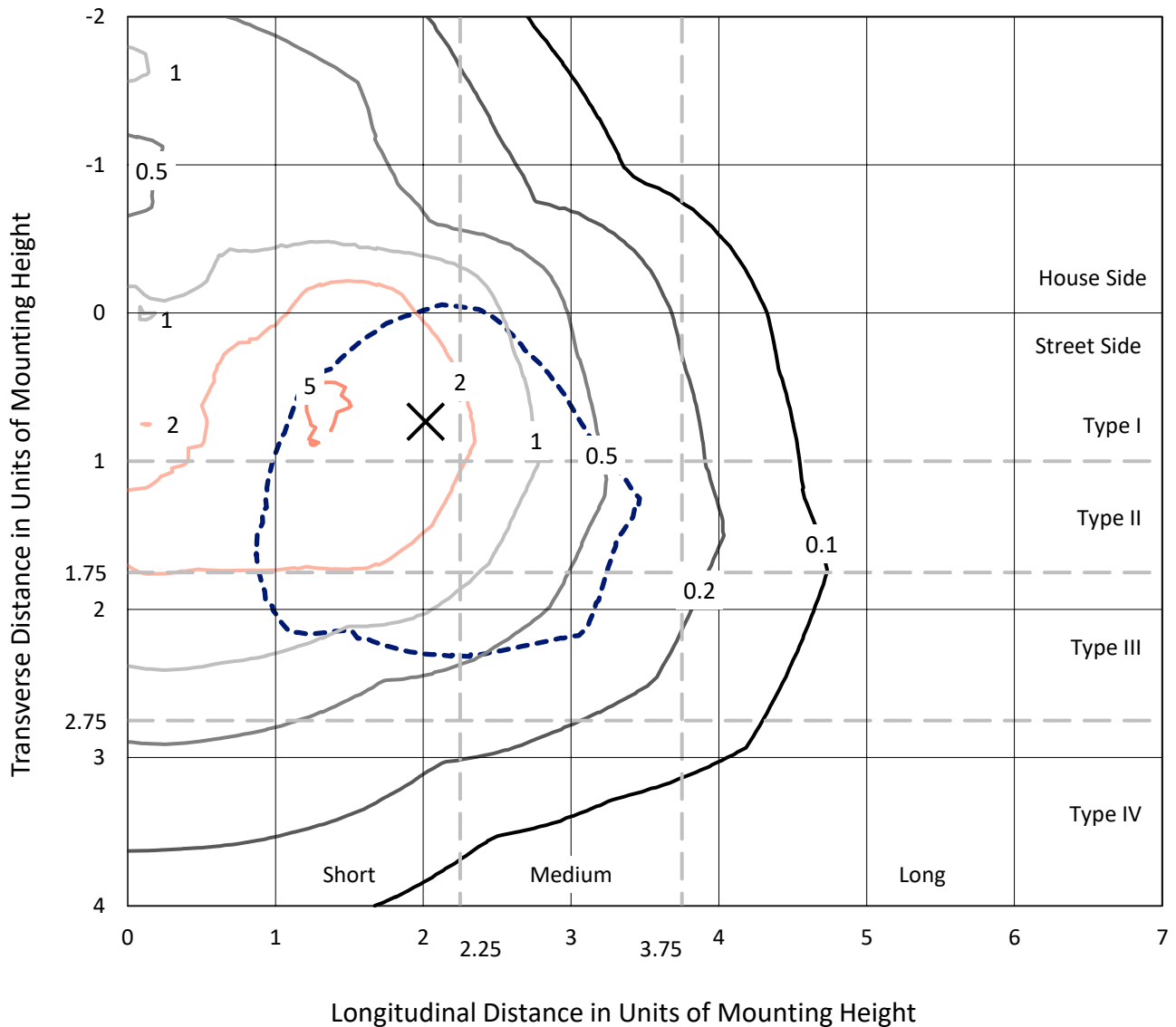
Lumens per Lamp: N/A
Luminaire Lumens: 12433.5 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U4 - G4

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

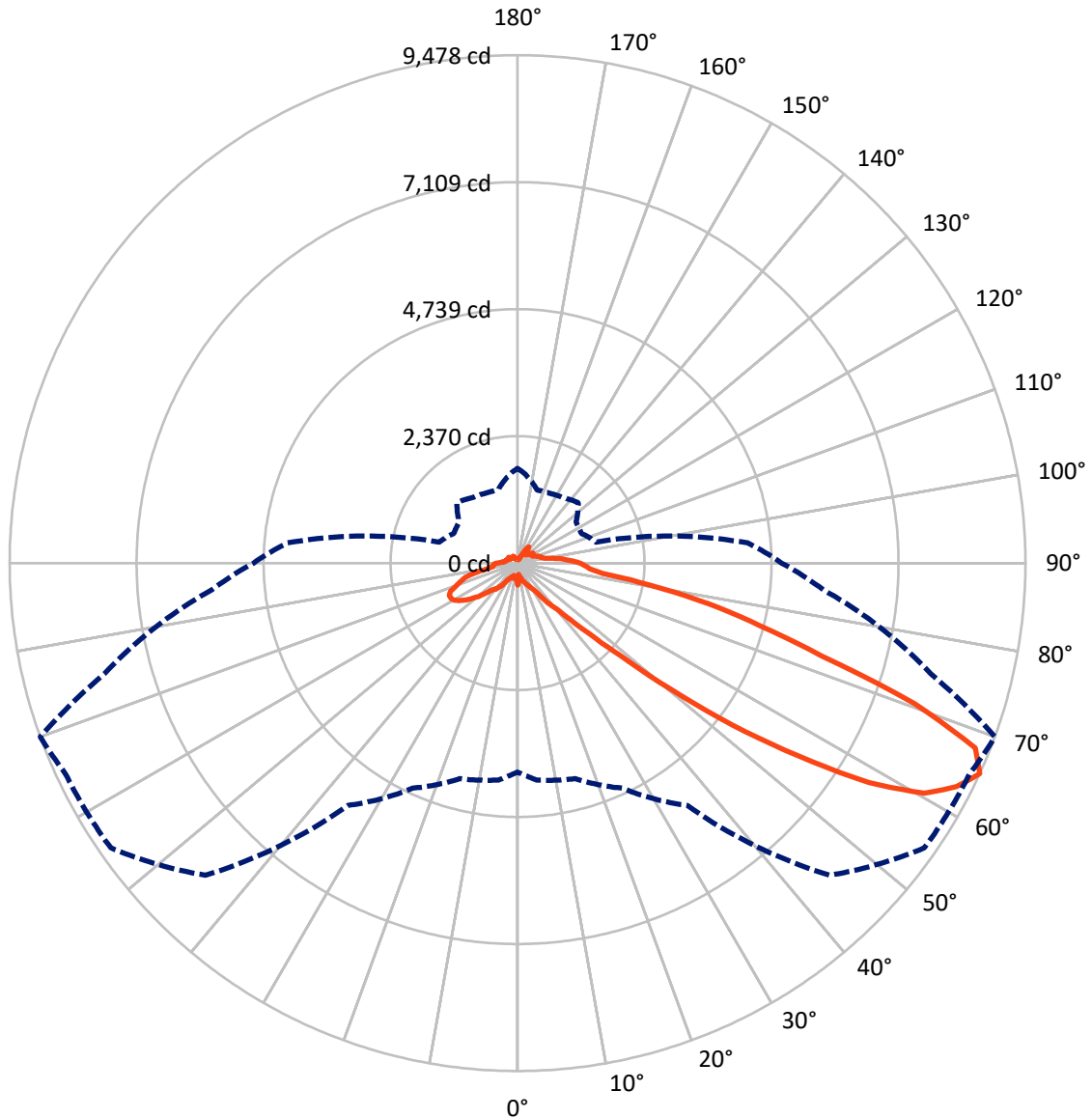
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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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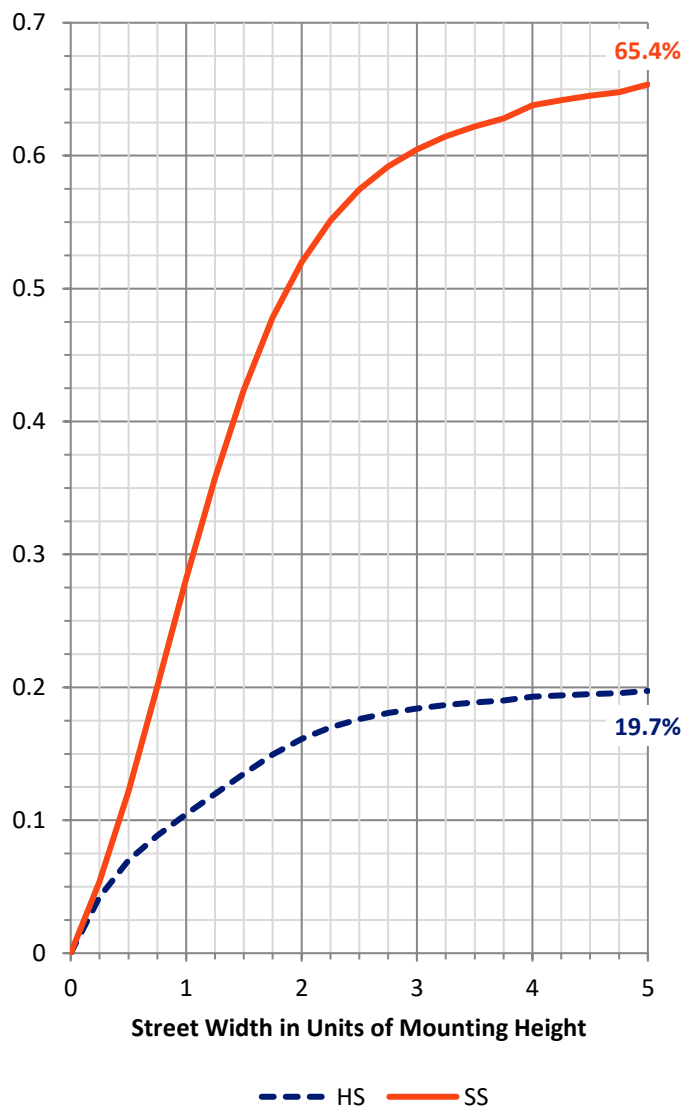
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2550.1	477.7	3027.9
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	8409.0	996.7	9405.7
	% Fixture	67.6	8.0	75.6
Total	Lumens	10959.1	1474.4	12433.5
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	0.2
10°-20°	83.1	0.7
20°-30°	167.8	1.3
30°-40°	355.1	2.9
40°-50°	828.0	6.7
50°-60°	2467.6	19.8
60°-70°	3954.0	31.8
70°-80°	2271.4	18.3
80°-90°	805.6	6.5
90°-100°	475.1	3.8
100°-110°	287.0	2.3
110°-120°	215.8	1.7
120°-130°	182.8	1.5
130°-140°	121.3	1.0
140°-150°	114.0	0.9
150°-160°	50.5	0.4
160°-170°	20.9	0.2
170°-180°	6.9	0.1
0°-90°	10959.1	88.1
0°-180°	12433.5	100.0



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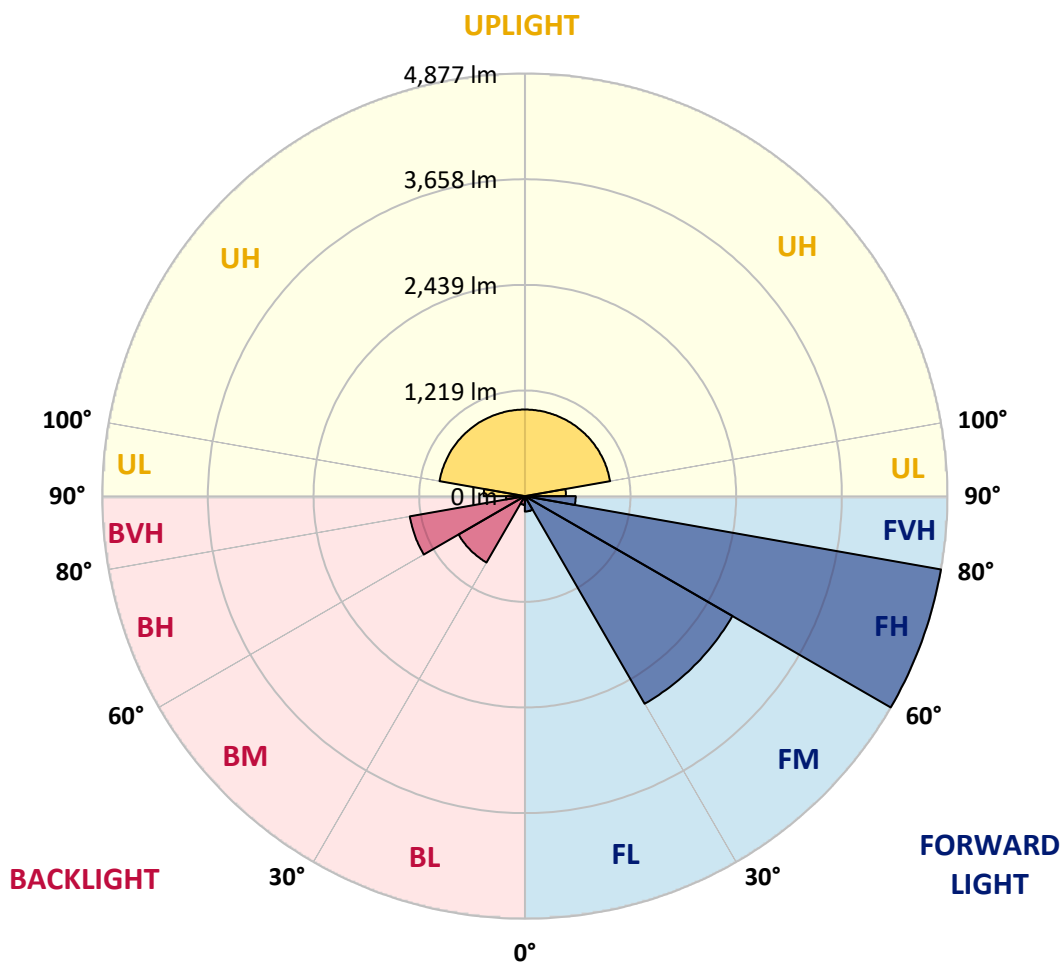
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.2	1.4			
FM (30°-60°)	2766.5	22.3			
FH (60°-80°)	4877.5	39.2			G2/5000
FVH (80°-90°)	586.8	4.7			G4/750
BL (0°-30°)	99.4	0.8	B0/110		
BM (30°-60°)	884.1	7.1	B1/1000		
BH (60°-80°)	1347.9	10.8	B3/2500		G3/2500
BVH (80°-90°)	218.8	1.8			G2/225
UL (90°-100°)	475.1	3.8		U3/500	
UH (100°-180°)	999.3	8.0		U4/1000	

BUG Rating: B3-U4-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
2.5°	343.9	341.3	347.9	353.1	359.7	350.5	334.7	350.5	355.8	371.6	383.4
5°	292.5	293.8	300.4	314.9	328.1	325.5	284.6	231.9	216.1	209.5	210.8
7.5°	289.9	288.6	284.6	283.3	291.2	320.2	316.2	278.0	249.0	224.0	199.0
10°	305.7	309.7	313.6	313.6	308.3	289.9	288.6	285.9	275.4	263.5	247.7
12.5°	378.2	383.4	387.4	374.2	357.1	338.6	324.2	300.4	289.9	283.3	271.4
15°	457.2	462.5	455.9	430.9	400.6	366.3	353.1	354.5	340.0	322.8	297.8
17.5°	499.4	496.8	469.1	440.1	416.4	390.0	371.6	359.7	354.5	347.9	322.8
20°	473.0	466.5	449.3	437.5	434.8	420.3	408.5	397.9	391.4	376.9	346.6
22.5°	453.3	453.3	450.6	448.0	463.8	457.2	452.0	437.5	428.2	409.8	365.0
25°	478.3	478.3	479.6	475.7	496.8	496.8	496.8	481.0	469.1	442.7	388.7
27.5°	513.9	512.6	516.5	513.9	532.3	536.3	544.2	532.3	515.2	483.6	415.1
30°	552.1	552.1	556.1	558.7	577.1	586.4	595.6	590.3	569.2	531.0	459.9
32.5°	593.0	591.6	603.5	616.7	627.2	644.3	648.3	661.5	640.4	595.6	525.8
35°	652.3	656.2	687.8	715.5	745.8	756.4	774.8	826.2	805.1	744.5	664.1
37.5°	943.5	923.7	915.8	884.2	880.2	942.1	964.5	1013.3	971.1	889.4	766.9
40°	1000.1	976.4	965.9	935.6	946.1	1073.9	1051.5	1226.8	1124.0	993.5	914.5
42.5°	942.1	938.2	1062.1	1085.8	1072.6	1275.5	1232.0	1556.2	1446.8	1143.8	1055.5
45°	1137.2	1126.6	1179.3	1221.5	1254.4	1619.4	1593.1	1934.4	1886.9	1392.8	1305.8
47.5°	1283.4	1272.9	1333.5	1474.5	1666.9	2062.2	2216.3	2731.6	2570.8	1915.9	1718.3
50°	1720.9	1714.3	1877.7	2029.2	2346.8	2930.5	3353.5	3909.6	3673.7	2676.2	2312.5
52.5°	2134.7	2155.7	2346.8	2638.0	2974.0	4028.2	4631.7	5021.7	5019.1	3485.3	2968.7
55°	2431.1	2502.3	2727.6	3253.4	3719.8	5001.9	5816.3	6104.8	6347.3	4650.1	3615.7
57.5°	3007.0	3130.8	3346.9	3867.4	4469.6	6180.0	7342.2	7294.7	7730.9	5858.4	4319.4
60°	3598.6	3743.5	3816.0	4294.3	5085.0	7314.5	8391.0	8280.3	8719.1	6910.0	5059.9
62.5°	3783.1	3925.4	3996.5	4517.0	5529.0	7957.5	8874.6	8918.1	9190.9	7659.7	5498.7
65°	3899.0	4062.4	4165.2	4634.3	5519.8	8238.2	9266.0	9306.8	9478.1	7982.5	5725.3
67.5°	3878.0	4061.1	4192.9	4613.2	5214.1	8004.9	9168.5	8984.0	9213.3	7752.0	5486.8
70°	3458.9	3618.4	3750.1	4074.3	4352.3	6743.9	7932.5	7628.1	7865.3	6476.4	4530.2
72.5°	2826.4	2892.3	3007.0	3159.8	3298.2	5003.3	6050.8	5789.9	5927.0	4858.3	3394.4
75°	2321.8	2308.6	2411.4	2522.1	2478.6	3655.3	4787.2	4548.7	4676.5	3689.5	2707.8
77.5°	1720.9	1714.3	1863.2	1854.0	1788.1	2531.3	3794.9	3622.3	3639.5	2725.0	2027.9
80°	1034.4	1054.1	1199.1	1228.1	1150.3	1587.8	2709.2	2627.5	2504.9	1861.9	1421.8
82.5°	726.0	756.4	832.8	864.4	826.2	1159.6	1794.7	1738.0	1593.1	1350.6	1001.4
85°	740.5	745.8	755.0	757.7	740.5	1041.0	1392.8	1361.2	1351.9	1131.9	826.2
87.5°	740.5	752.4	760.3	759.0	728.7	975.1	1284.7	1234.7	1246.5	1058.1	798.5
90°	664.1	685.2	683.9	687.8	662.8	881.5	1164.8	1124.0	1139.8	954.0	726.0
92.5°	542.9	557.4	571.9	599.5	562.7	749.8	984.3	946.1	965.9	811.7	618.0
95°	504.7	517.9	527.1	541.6	504.7	666.7	871.0	824.9	832.8	689.2	523.1
97.5°	408.5	416.4	426.9	429.6	403.2	512.6	662.8	623.3	628.5	535.0	411.1
100°	342.6	349.2	358.4	358.4	341.3	424.3	524.4	503.4	500.7	437.5	347.9
102.5°	324.2	326.8	341.3	338.6	321.5	391.4	474.4	461.2	462.5	405.8	326.8
105°	318.9	318.9	333.4	326.8	312.3	372.9	444.1	440.1	438.8	386.1	313.6
107.5°	313.6	313.6	328.1	321.5	309.7	351.8	417.7	404.5	403.2	367.6	296.5
110°	292.5	296.5	312.3	304.4	295.2	332.1	383.4	374.2	374.2	346.6	283.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	259.6	262.2	276.7	270.1	263.5	295.2	340.0	328.1	329.4	311.0	264.9
115°	242.5	246.4	260.9	251.7	246.4	275.4	314.9	307.0	309.7	292.5	250.4
117.5°	243.8	245.1	255.6	256.9	246.4	270.1	291.2	293.8	297.8	287.3	254.3
120°	296.5	289.9	295.2	288.6	283.3	311.0	336.0	338.6	337.3	317.6	253.0
122.5°	299.1	285.9	300.4	291.2	285.9	316.2	343.9	350.5	343.9	326.8	258.3
125°	238.5	242.5	243.8	246.4	251.7	284.6	299.1	300.4	301.8	296.5	250.4
127.5°	209.5	208.2	201.6	202.9	214.8	243.8	254.3	262.2	256.9	254.3	225.3
130°	200.3	202.9	201.6	201.6	208.2	230.6	238.5	250.4	246.4	241.1	205.6
132.5°	184.5	187.1	199.0	213.5	210.8	218.7	221.4	233.2	234.5	234.5	206.9
135°	175.3	177.9	187.1	205.6	200.3	204.2	202.9	213.5	214.8	216.1	195.0
137.5°	179.2	180.5	175.3	177.9	181.8	199.0	204.2	214.8	214.8	209.5	181.8
140°	188.4	188.4	176.6	172.6	180.5	206.9	217.4	234.5	231.9	222.7	188.4
142.5°	173.9	176.6	183.2	191.1	208.2	280.7	280.7	313.6	324.2	326.8	228.0
145°	226.6	228.0	230.6	234.5	267.5	367.6	334.7	358.4	367.6	376.9	274.1
147.5°	260.9	263.5	260.9	250.4	280.7	314.9	299.1	309.7	320.2	322.8	275.4
150°	204.2	201.6	200.3	199.0	231.9	242.5	229.3	228.0	235.9	242.5	213.5
152.5°	148.9	147.6	146.3	144.9	173.9	167.3	158.1	158.1	160.8	162.1	150.2
155°	131.8	130.5	127.8	129.1	147.6	141.0	133.1	130.5	133.1	131.8	125.2
157.5°	108.1	105.4	105.4	110.7	119.9	112.0	106.7	102.8	104.1	102.8	104.1
160°	89.6	88.3	89.6	96.2	101.5	94.9	89.6	87.0	87.0	89.6	94.9
162.5°	80.4	79.1	80.4	83.0	85.6	79.1	75.1	75.1	76.4	81.7	92.2
165°	69.8	69.8	71.2	72.5	73.8	69.8	68.5	68.5	71.2	79.1	90.9
167.5°	67.2	67.2	67.2	67.2	67.2	65.9	64.6	68.5	71.2	75.1	83.0
170°	65.9	64.6	65.9	65.9	65.9	65.9	65.9	69.8	69.8	71.2	75.1
172.5°	67.2	67.2	67.2	68.5	71.2	72.5	71.2	73.8	72.5	72.5	72.5
175°	68.5	68.5	69.8	71.2	72.5	73.8	75.1	75.1	75.1	76.4	76.4
177.5°	68.5	68.5	69.8	71.2	72.5	69.8	67.2	65.9	64.6	64.6	64.6
180°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
2.5°	372.9	340.0	293.8	313.6	374.2	362.4	301.8	264.9	267.5	293.8	296.5
5°	217.4	224.0	254.3	317.6	329.4	272.8	220.1	212.1	255.6	316.2	328.1
7.5°	196.3	196.3	221.4	308.3	346.6	284.6	214.8	193.7	226.6	276.7	284.6
10°	237.2	229.3	231.9	263.5	278.0	228.0	192.4	183.2	201.6	208.2	205.6
12.5°	267.5	272.8	297.8	291.2	228.0	185.8	173.9	172.6	183.2	189.7	188.4
15°	287.3	278.0	259.6	238.5	217.4	193.7	176.6	166.0	154.2	148.9	148.9
17.5°	305.7	287.3	254.3	234.5	213.5	196.3	180.5	164.7	159.4	160.8	160.8
20°	328.1	305.7	275.4	253.0	228.0	204.2	184.5	167.3	163.4	164.7	163.4
22.5°	345.2	325.5	293.8	264.9	238.5	212.1	192.4	175.3	170.0	168.7	168.7
25°	366.3	349.2	316.2	280.7	249.0	224.0	206.9	187.1	177.9	175.3	175.3
27.5°	394.0	379.5	342.6	304.4	267.5	238.5	220.1	199.0	185.8	180.5	179.2
30°	436.2	416.4	375.5	328.1	289.9	259.6	237.2	210.8	195.0	185.8	184.5
32.5°	499.4	474.4	420.3	361.0	314.9	283.3	255.6	222.7	202.9	192.4	191.1
35°	633.8	606.1	537.6	454.6	387.4	322.8	279.3	235.9	210.8	197.7	196.3
37.5°	718.1	668.1	585.1	509.9	428.2	390.0	334.7	276.7	221.4	204.2	201.6
40°	840.7	776.1	672.0	570.6	426.9	425.6	388.7	337.3	260.9	216.1	212.1
42.5°	931.6	848.6	718.1	604.8	430.9	442.7	411.1	366.3	309.7	251.7	245.1
45°	1117.4	1012.0	805.1	635.1	436.2	462.5	430.9	383.4	333.4	292.5	288.6
47.5°	1465.3	1319.0	973.8	693.1	495.5	528.4	471.7	416.4	367.6	326.8	317.6
50°	1951.5	1776.2	1178.0	744.5	596.9	672.0	579.8	495.5	437.5	405.8	396.6
52.5°	2522.1	2325.7	1305.8	824.9	719.5	848.6	747.1	648.3	571.9	577.1	571.9
55°	3158.5	2926.6	1417.8	946.1	876.3	1044.9	934.2	848.6	807.7	922.4	929.0
57.5°	3772.5	3524.8	1487.7	1073.9	1051.5	1271.6	1142.4	1081.8	1097.6	1433.6	1512.7
60°	4358.9	3967.6	1541.7	1193.8	1199.1	1449.5	1350.6	1338.8	1387.5	1818.4	1938.3
62.5°	4697.6	4194.2	1539.1	1271.6	1291.3	1558.8	1471.9	1478.4	1515.3	1881.7	1981.8
65°	4928.1	4308.8	1512.7	1311.1	1330.9	1598.4	1486.4	1435.0	1411.2	1661.6	1768.3
67.5°	4789.8	4087.5	1449.5	1276.8	1303.2	1535.1	1395.4	1266.3	1225.4	1361.2	1424.4
70°	4049.3	3415.4	1291.3	1160.9	1178.0	1295.3	1176.7	1035.7	994.9	1066.0	1095.0
72.5°	3059.7	2622.2	1158.2	1072.6	1031.7	1071.3	955.3	807.7	798.5	836.7	842.0
75°	2444.3	2058.2	1055.5	967.2	857.8	898.7	759.0	600.9	589.0	591.6	578.5
77.5°	1842.1	1531.2	888.1	761.6	649.6	716.8	564.0	415.1	395.3	387.4	372.9
80°	1261.0	1063.4	603.5	509.9	461.2	525.8	401.9	304.4	303.1	300.4	284.6
82.5°	894.7	820.9	492.8	433.5	391.4	413.8	349.2	284.6	278.0	279.3	262.2
85°	782.7	743.2	475.7	438.8	397.9	396.6	333.4	266.2	263.5	264.9	249.0
87.5°	748.4	705.0	465.1	419.0	379.5	359.7	293.8	234.5	241.1	245.1	230.6
90°	670.7	625.9	421.7	374.2	336.0	301.8	249.0	212.1	222.7	225.3	212.1
92.5°	565.3	519.2	328.1	300.4	282.0	276.7	233.2	201.6	209.5	210.8	200.3
95°	478.3	436.2	285.9	264.9	251.7	250.4	210.8	183.2	187.1	185.8	176.6
97.5°	384.8	354.5	250.4	230.6	216.1	208.2	180.5	159.4	164.7	167.3	160.8
100°	328.1	311.0	233.2	216.1	199.0	188.4	164.7	147.6	152.9	158.1	152.9
102.5°	308.3	295.2	229.3	210.8	192.4	179.2	156.8	138.4	141.0	147.6	143.6
105°	292.5	280.7	222.7	202.9	185.8	171.3	152.9	130.5	129.1	135.7	134.4
107.5°	275.4	264.9	218.7	195.0	176.6	163.4	146.3	125.2	119.9	123.9	122.5
110°	266.2	255.6	210.8	185.8	166.0	154.2	138.4	121.2	114.6	116.0	116.0



REPORT NUMBER: P856229

CATALOG NUMBER: FFX-CLB-80-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	247.7	235.9	193.7	170.0	154.2	143.6	127.8	116.0	108.1	110.7	112.0
115°	235.9	220.1	177.9	160.8	143.6	134.4	125.2	114.6	105.4	105.4	106.7
117.5°	243.8	213.5	166.0	152.9	143.6	141.0	138.4	122.5	104.1	102.8	102.8
120°	233.2	214.8	180.5	176.6	167.3	159.4	142.3	121.2	101.5	98.8	98.8
122.5°	228.0	224.0	204.2	191.1	173.9	158.1	133.1	110.7	97.5	94.9	94.9
125°	225.3	221.4	197.7	172.6	150.2	134.4	118.6	104.1	96.2	92.2	92.2
127.5°	206.9	188.4	159.4	144.9	130.5	123.9	110.7	101.5	92.2	87.0	87.0
130°	191.1	173.9	148.9	133.1	121.2	116.0	106.7	97.5	88.3	83.0	81.7
132.5°	188.4	171.3	144.9	125.2	114.6	109.4	104.1	93.6	83.0	77.7	76.4
135°	175.3	155.5	129.1	118.6	112.0	108.1	104.1	90.9	80.4	75.1	75.1
137.5°	162.1	142.3	122.5	117.3	112.0	108.1	96.2	83.0	75.1	71.2	71.2
140°	163.4	141.0	125.2	121.2	113.3	101.5	90.9	81.7	75.1	69.8	68.5
142.5°	173.9	146.3	126.5	114.6	109.4	102.8	98.8	88.3	75.1	65.9	63.2
145°	191.1	158.1	142.3	137.0	127.8	116.0	101.5	81.7	68.5	60.6	59.3
147.5°	210.8	177.9	159.4	144.9	126.5	106.7	87.0	71.2	60.6	58.0	56.7
150°	183.2	151.5	137.0	117.3	101.5	85.6	71.2	63.2	58.0	56.7	56.7
152.5°	138.4	113.3	101.5	92.2	83.0	75.1	67.2	61.9	58.0	55.3	55.3
155°	119.9	106.7	94.9	85.6	76.4	68.5	61.9	59.3	55.3	55.3	54.0
157.5°	105.4	98.8	83.0	75.1	68.5	64.6	61.9	58.0	56.7	55.3	55.3
160°	96.2	92.2	76.4	69.8	65.9	63.2	63.2	60.6	56.7	55.3	55.3
162.5°	93.6	89.6	73.8	67.2	63.2	64.6	67.2	65.9	60.6	58.0	58.0
165°	92.2	89.6	75.1	65.9	63.2	64.6	71.2	72.5	65.9	61.9	60.6
167.5°	84.3	83.0	79.1	72.5	68.5	68.5	72.5	73.8	71.2	71.2	69.8
170°	76.4	76.4	77.7	79.1	76.4	72.5	69.8	69.8	73.8	77.7	79.1
172.5°	73.8	75.1	77.7	81.7	81.7	76.4	72.5	71.2	75.1	80.4	81.7
175°	77.7	79.1	80.4	80.4	77.7	76.4	75.1	73.8	76.4	81.7	83.0
177.5°	64.6	64.6	65.9	65.9	64.6	65.9	64.6	61.9	61.9	61.9	61.9
180°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6

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



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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-5

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.

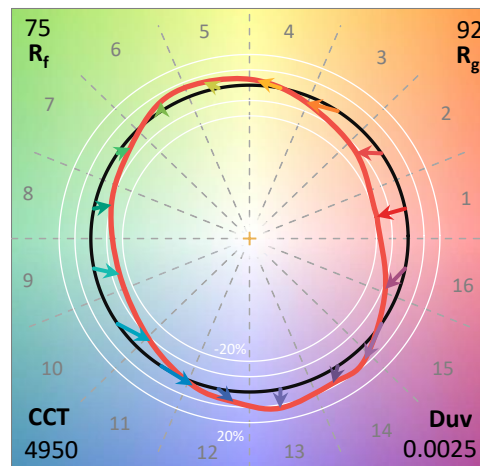
Test Information

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

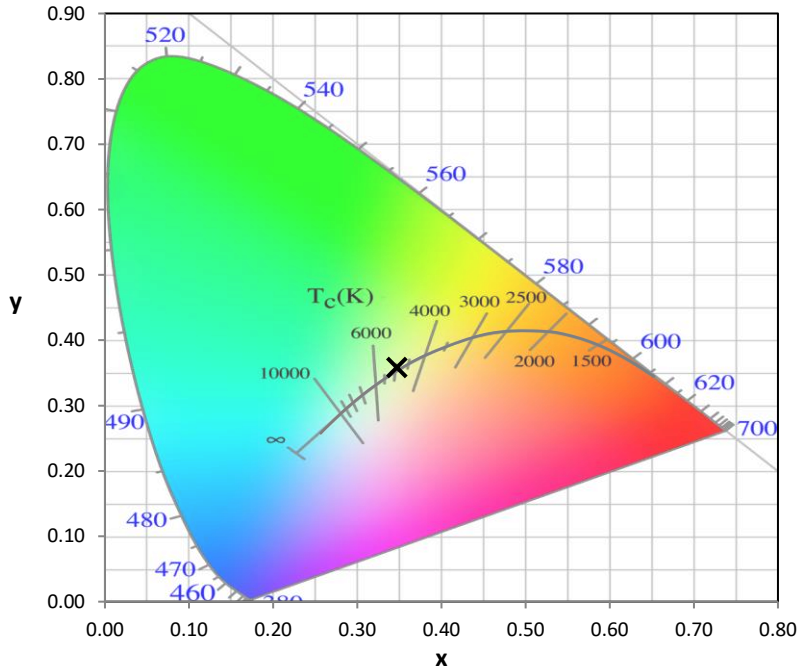
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

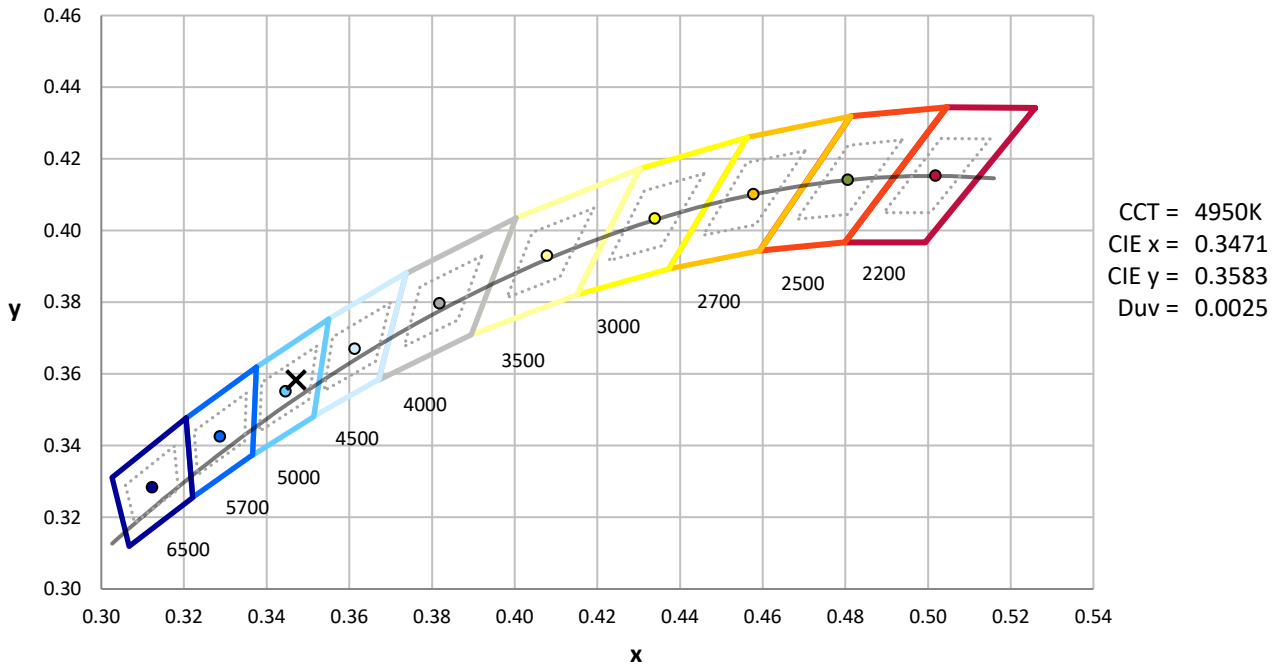
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



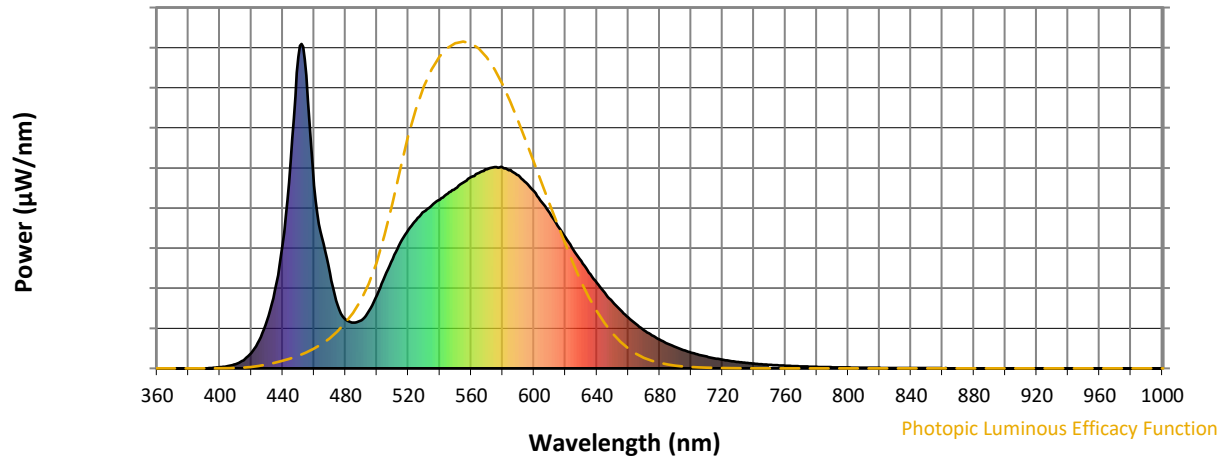
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

Photopic Flux vs. Wavelength

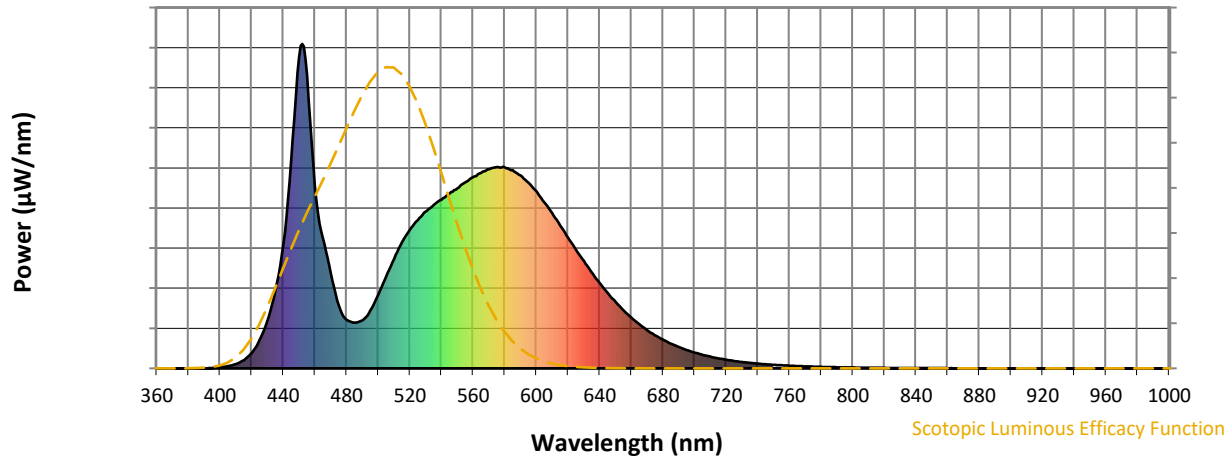


Photopic Lumens: NR

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



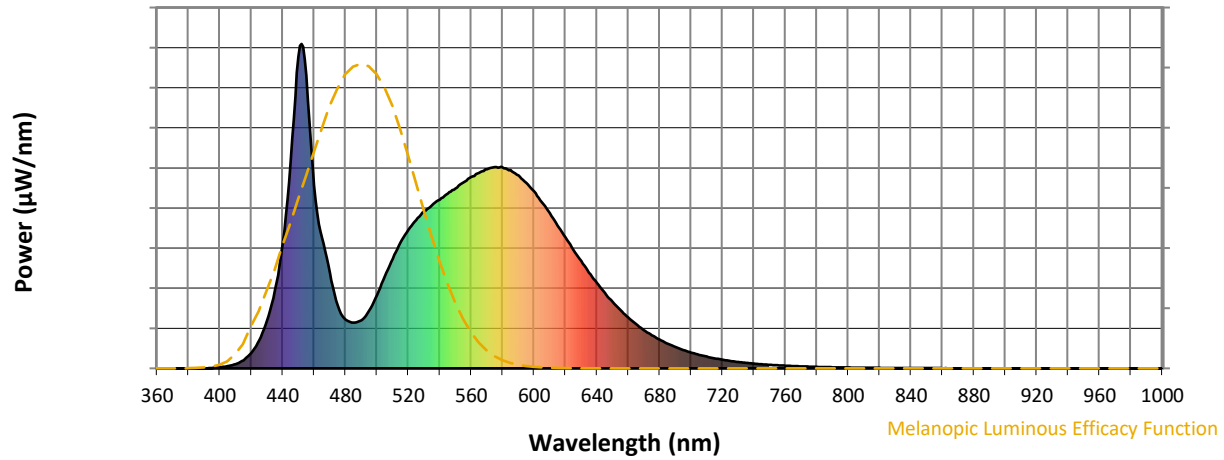
Scotopic Lumens: NR

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

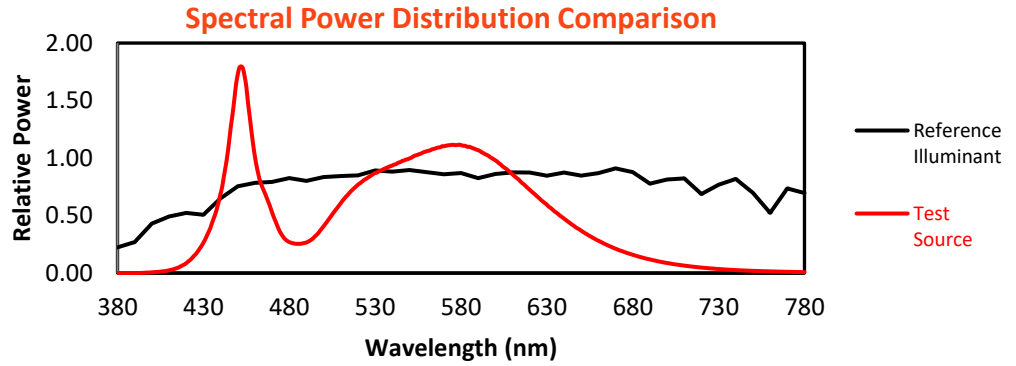
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	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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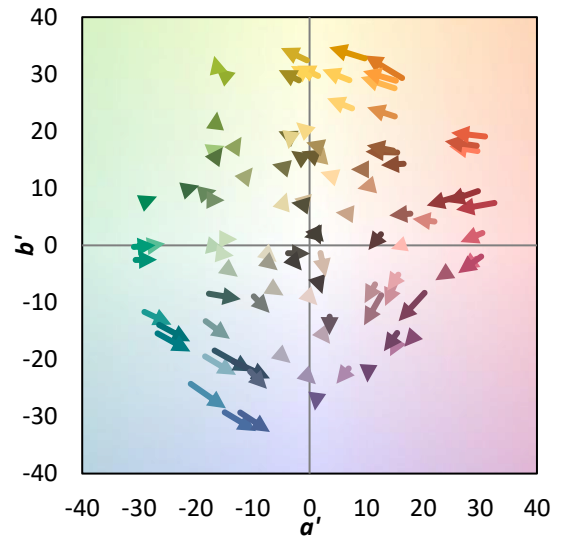
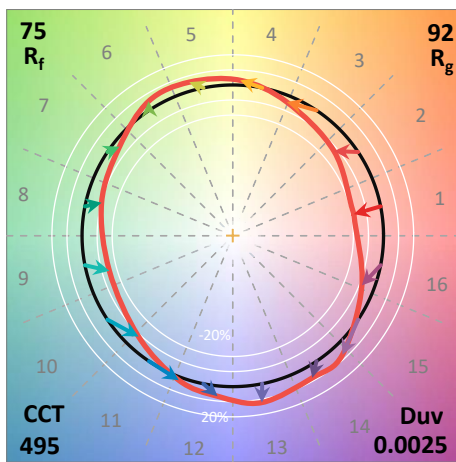
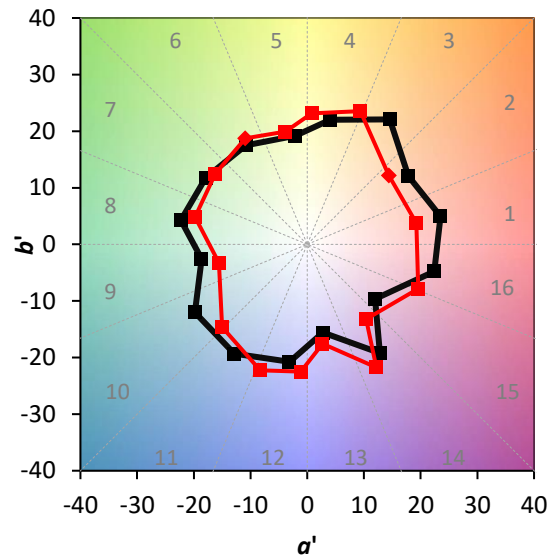
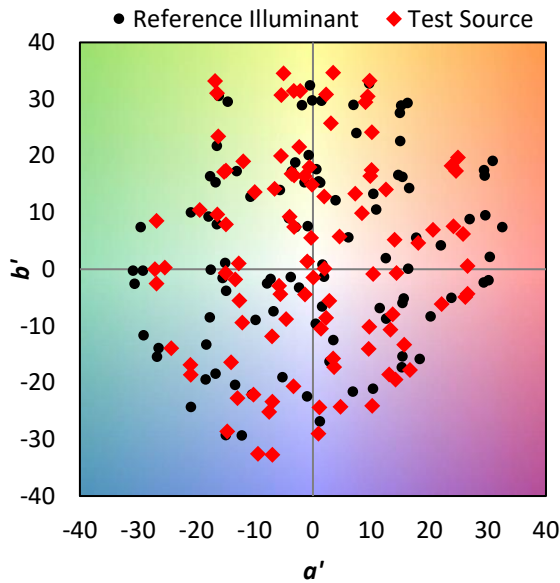
TM-30-18

Summary

$R_f = 74.8$
 $R_g = 92.4$
 CIE $R_a = 73.0$
 $R_9 = -35.4$



Color Vector Graphics

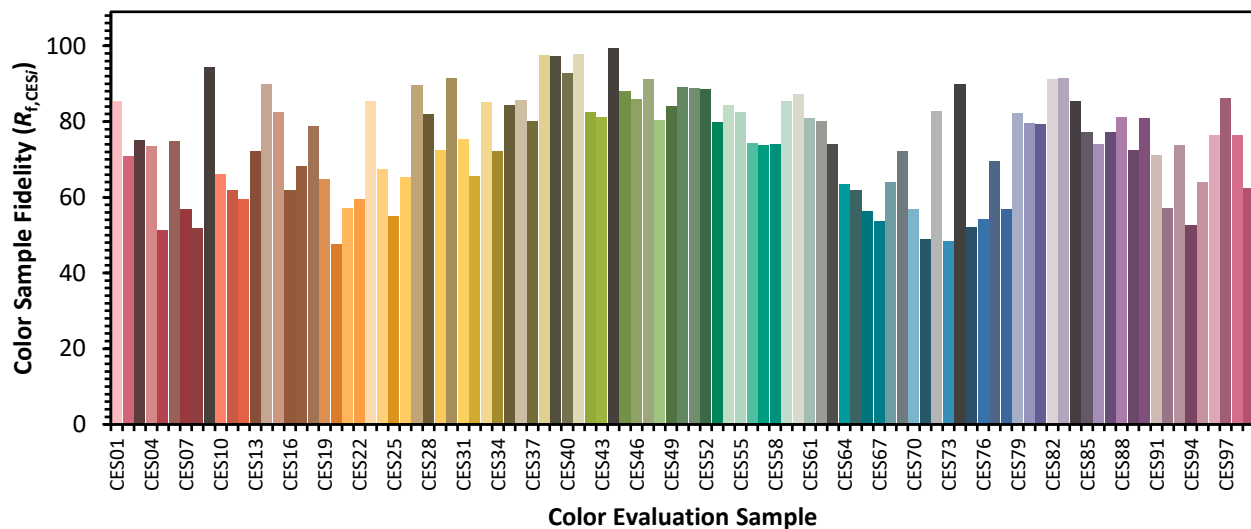


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TM-30-18

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

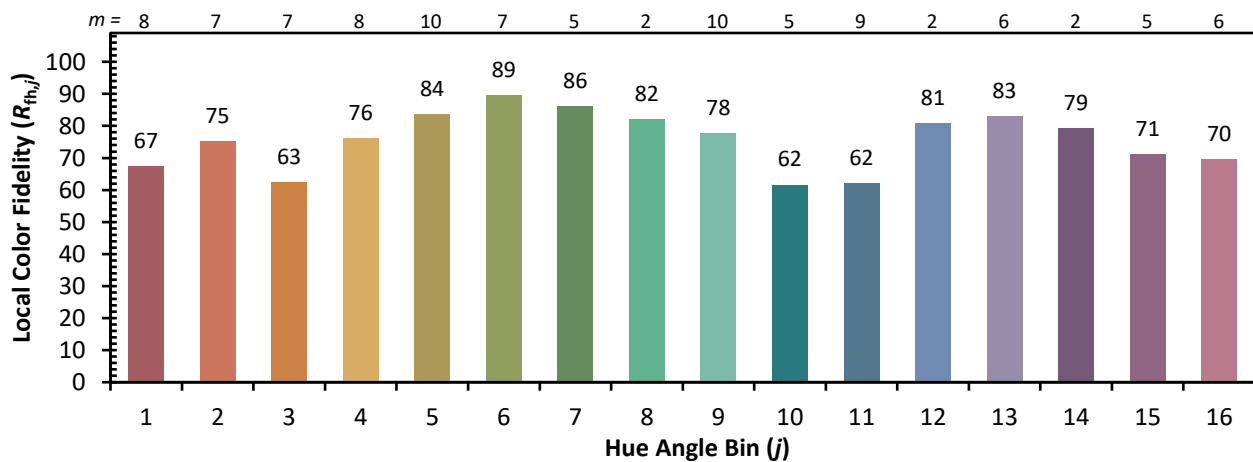
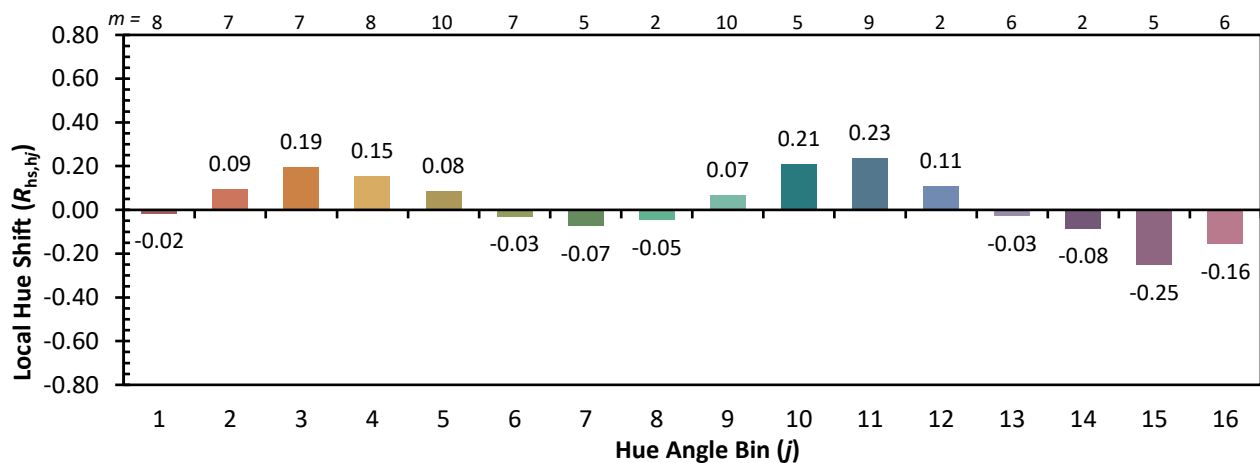
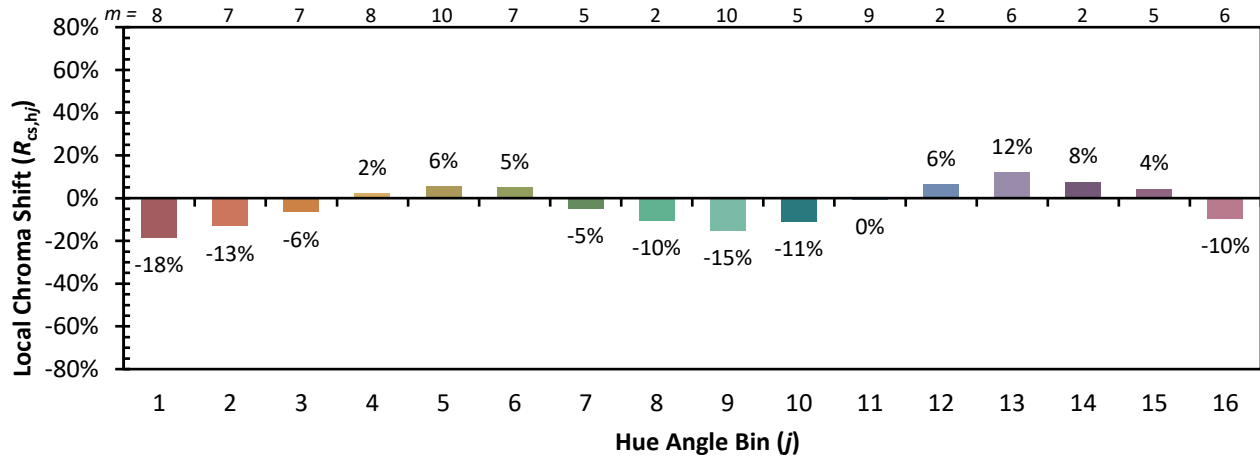
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 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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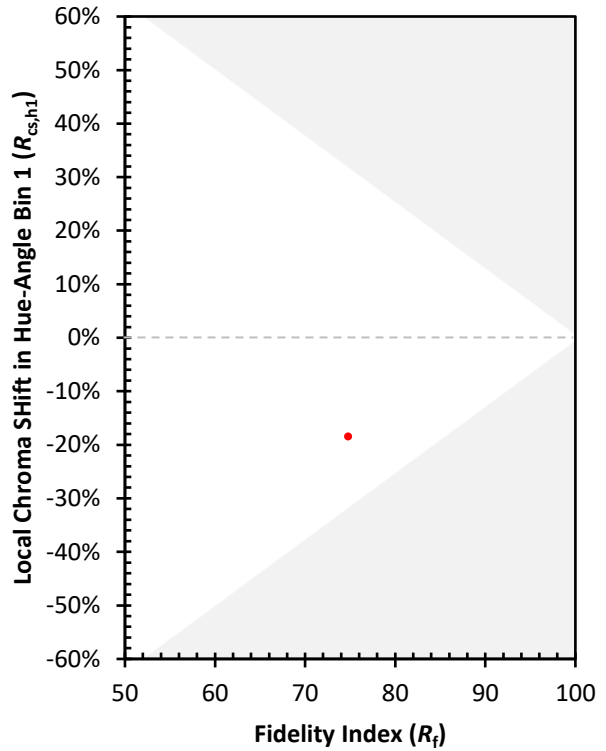
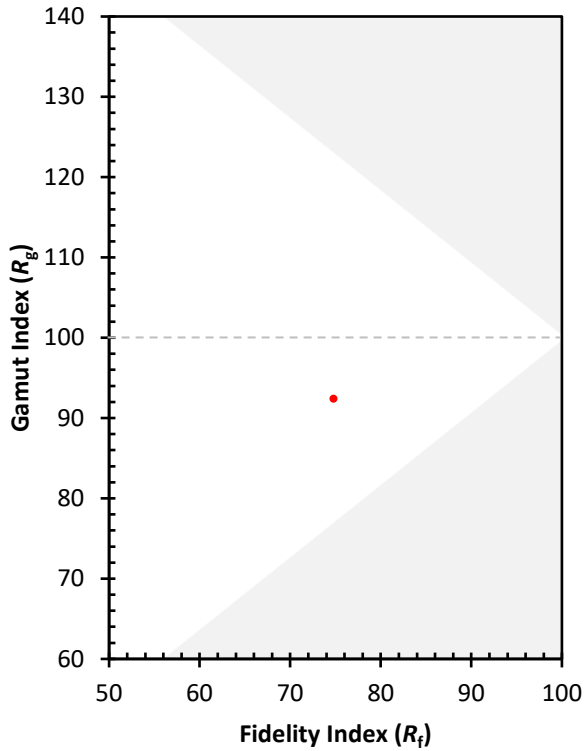
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)