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: P1046204

Luminaire Tested: **FFX-CLB-60-730-U-FR-T4-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046204
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-730-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8665.2 lumens
Efficiency:	N/A
Efficacy:	143.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G3

Input Watts (W):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

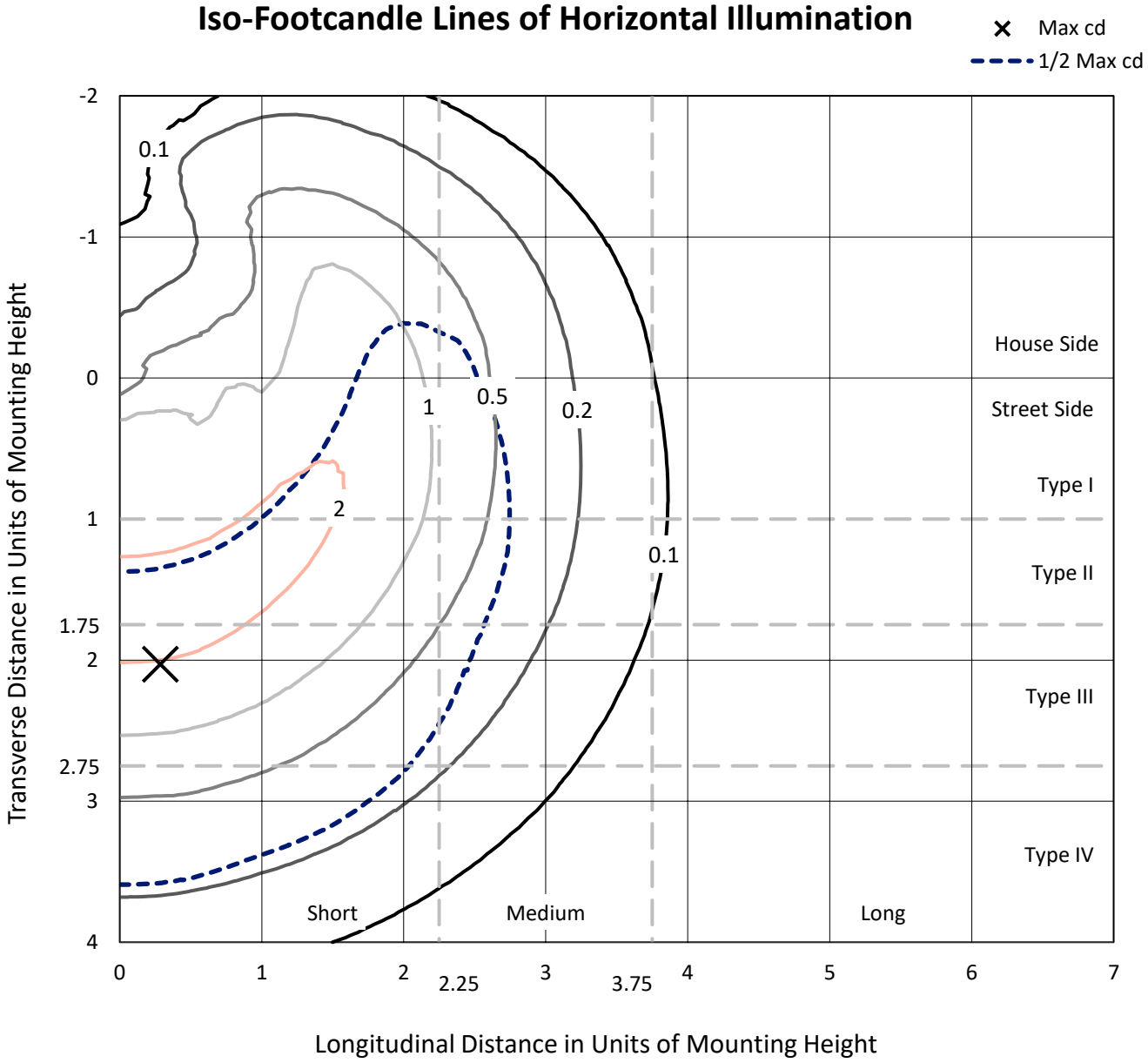


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046204
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



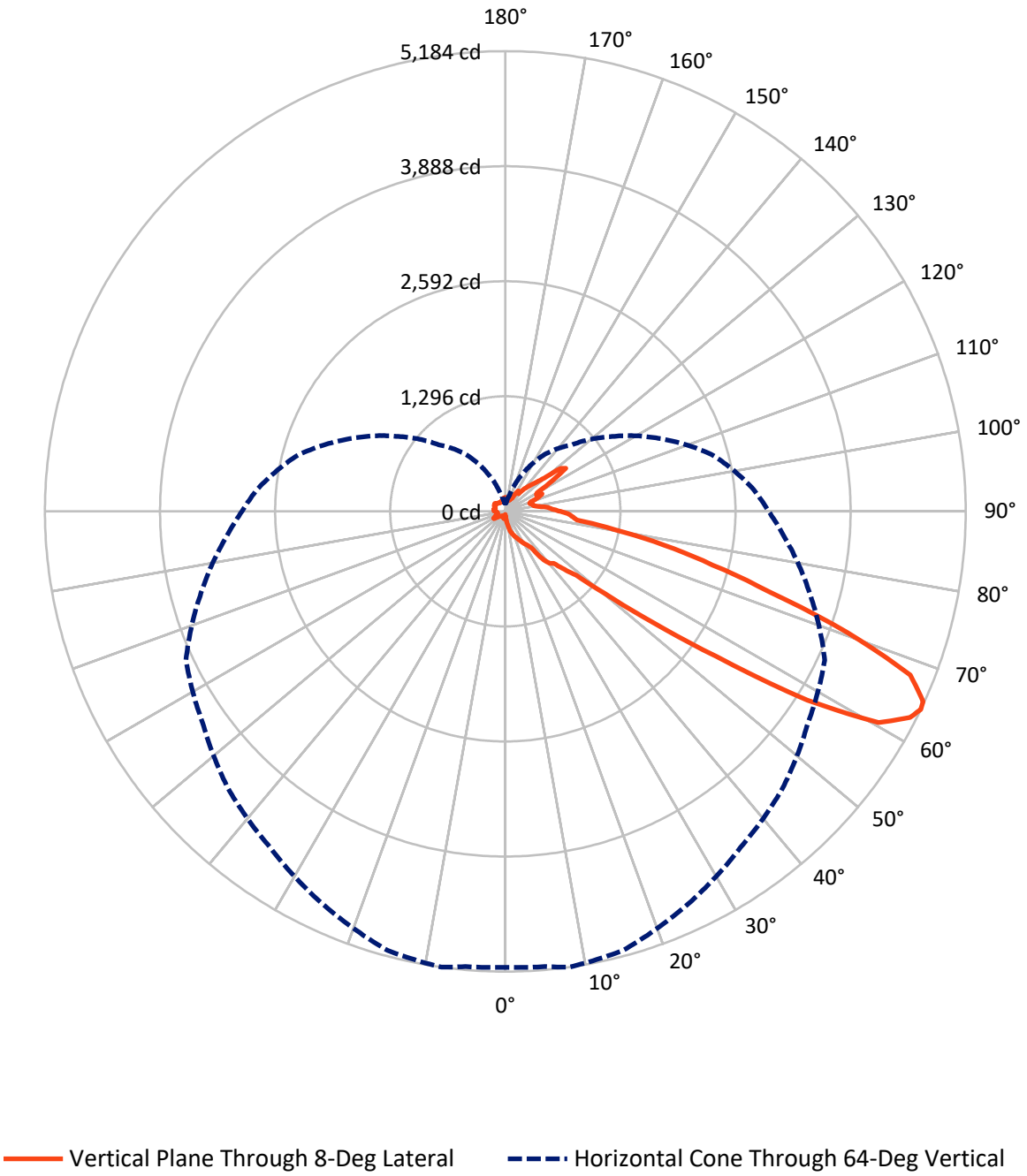
Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046204
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

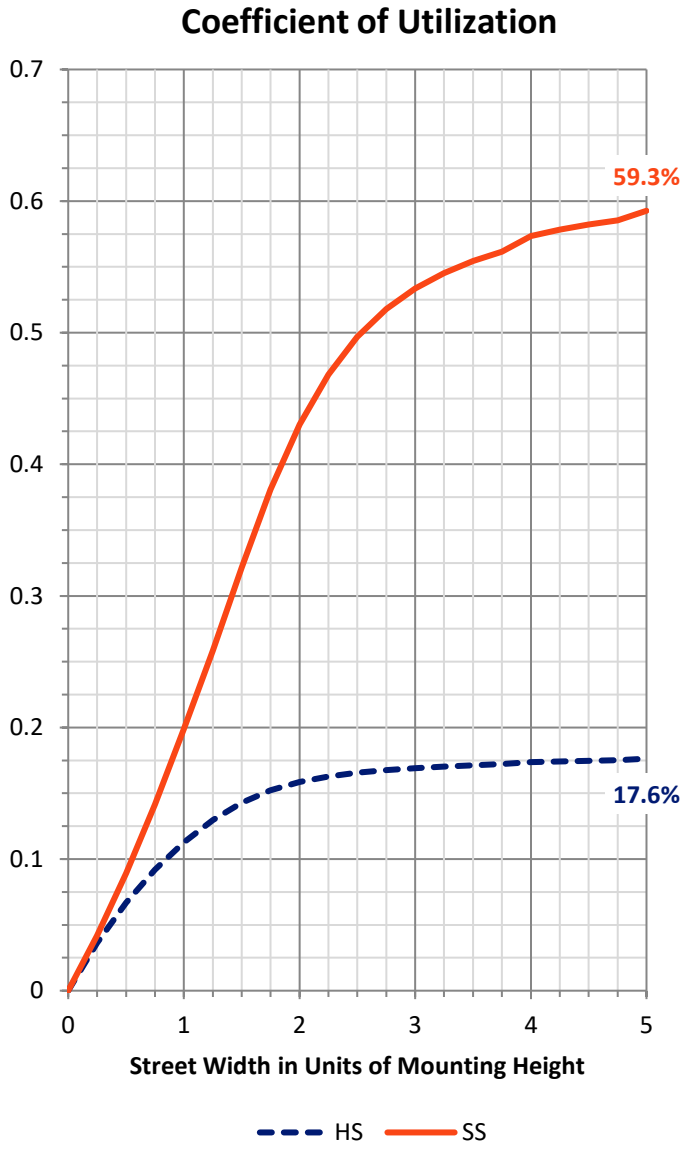
REPORT NUMBER: P1046204
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1584.7	592.0	2176.7
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	5355.0	1133.5	6488.5
	% Fixture	61.8	13.1	74.9
Total	Lumens	6939.7	1725.5	8665.2
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.1
10°-20°	47.7	0.6
20°-30°	103.6	1.2
30°-40°	207.0	2.4
40°-50°	448.1	5.2
50°-60°	1553.3	17.9
60°-70°	2612.7	30.2
70°-80°	1420.7	16.4
80°-90°	537.8	6.2
90°-100°	339.4	3.9
100°-110°	228.9	2.6
110°-120°	247.7	2.9
120°-130°	407.6	4.7
130°-140°	251.1	2.9
140°-150°	131.3	1.5
150°-160°	68.4	0.8
160°-170°	37.2	0.4
170°-180°	14.0	0.2
0°-90°	6939.7	80.1
0°-180°	8665.2	100.0



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

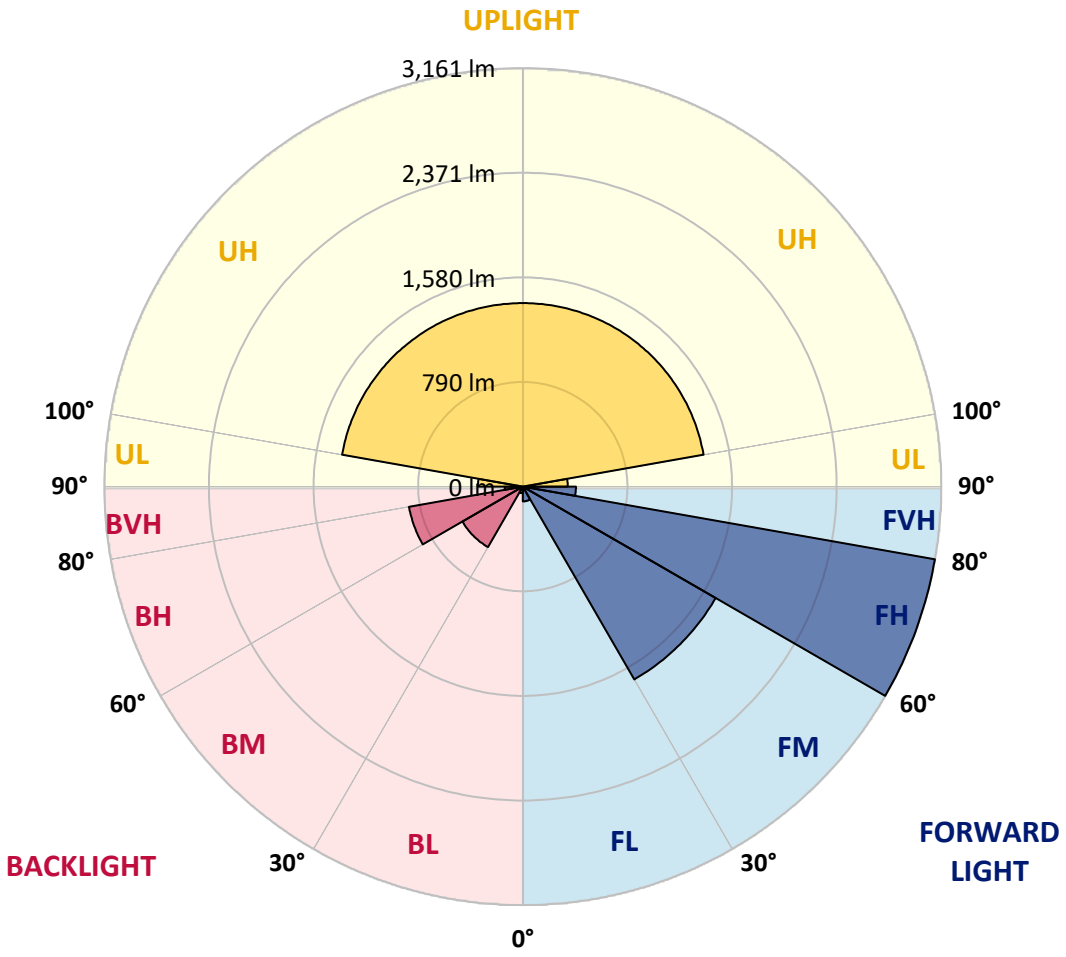
Scaled Data Report

REPORT NUMBER: P1046204
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	111.5	1.3			
FM	(30°-60°)	1681.6	19.4			
FH	(60°-80°)	3160.7	36.5			G2/5000
FVH	(80°-90°)	401.2	4.6			G3/500
BL	(0°-30°)	48.6	0.6	B0/110		
BM	(30°-60°)	526.8	6.1	B1/1000		
BH	(60°-80°)	872.7	10.1	B2/1000		G2/1000
BVH	(80°-90°)	136.6	1.6			G2/225
UL	(90°-100°)	339.4	3.9		U3/500	
UH	(100°-180°)	1386.2	16.0		U5	

BUG Rating: B2-U5-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046204
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	55.7	55.7	*55.7*	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	60.5	60.5	*60.5*	62.3	63.5	64.1	62.3	61.1	60.5	59.9	58.1
5°	86.9	87.5	*87.5*	89.3	88.1	89.3	86.9	85.1	82.1	78.5	75.5
7.5°	122.8	122.8	*122.2*	122.8	122.2	119.8	119.8	121.6	116.8	109.6	103.0
10°	166.5	167.7	*167.1*	164.7	161.1	158.1	158.1	160.5	153.4	140.8	131.2
12.5°	210.9	213.3	*210.9*	211.5	205.5	203.1	198.3	197.1	187.5	175.5	158.7
15°	243.8	245.6	*246.2*	248.0	247.4	239.6	231.2	222.2	214.5	203.7	186.3
17.5°	270.2	270.8	*272.0*	271.4	267.8	260.0	250.4	240.8	228.2	216.8	200.7
20°	295.9	298.3	*297.7*	297.1	295.3	289.3	277.9	264.2	253.4	236.6	219.8
22.5°	322.3	320.5	*321.7*	321.1	321.1	315.1	303.1	286.9	272.6	255.8	240.8
25°	352.8	352.2	*352.8*	351.0	348.6	345.6	330.7	312.1	295.9	278.5	257.6
27.5°	385.2	385.8	*386.4*	383.4	380.4	375.6	354.0	335.5	318.1	296.5	267.2
30°	421.1	419.3	*419.9*	415.7	413.9	399.0	378.0	355.8	336.7	307.9	279.1
32.5°	454.1	451.1	*450.5*	446.9	443.9	422.3	400.8	379.2	356.4	327.1	301.9
35°	500.2	506.2	*503.8*	503.8	511.6	478.6	453.5	432.5	407.9	377.4	351.0
37.5°	688.3	687.1	*679.9*	670.3	643.4	620.0	608.6	575.7	536.1	502.6	460.7
40°	779.3	775.7	*768.0*	748.8	729.6	702.1	684.7	664.3	644.0	584.7	517.6
42.5°	800.9	797.9	*799.7*	822.5	847.6	827.3	759.6	685.9	649.9	609.8	576.3
45°	918.9	929.1	*932.1*	931.5	913.5	892.0	862.6	818.3	756.0	699.1	629.0
47.5°	1068.7	1067.5	*1074.7*	1065.1	1080.0	1042.3	1004.6	958.4	893.8	816.5	732.6
50°	1460.4	1447.9	*1449.7*	1453.2	1430.5	1402.9	1368.8	1343.0	1216.6	1107.0	979.4
52.5°	2082.8	2084.6	*2071.4*	2070.8	2003.2	1949.8	1889.9	1892.3	1706.6	1559.3	1374.8
55°	2927.5	2928.7	*2881.3*	2920.3	2844.2	2837.0	2704.6	2533.9	2284.1	2083.4	1897.7
57.5°	3979.4	4015.3	*4011.1*	3941.6	3825.4	3762.5	3548.6	3369.5	3016.1	2701.0	2448.8
60°	4875.5	4858.7	*4831.2*	4778.5	4430.4	4284.3	4126.7	3974.0	3681.0	3244.9	2867.6
62.5°	5131.3	5118.7	*5113.9*	5087.6	4812.6	4571.8	4373.5	4123.7	3927.8	3500.1	3115.6
64°	*5135.5*	*5146.9*	*5184.0*	*5121.1*	*4876.7*	*4619.7*	*4414.2*	*4159.1*	*3968.6*	*3546.9*	*3145.5*
65°	5125.9	5123.5	*5170.2*	5090.5	4873.7	4617.3	4389.1	4144.7	3956.0	3534.3	3137.7
67.5°	4868.9	4858.7	*4918.6*	4816.2	4626.9	4395.7	4171.6	3909.3	3743.3	3338.4	2954.4
70°	3995.5	3994.9	*4088.4*	4002.7	3946.4	3701.4	3472.6	3231.8	3054.4	2722.0	2400.9
72.5°	3061.6	3056.2	*3118.5*	3054.4	3025.7	2910.1	2696.2	2483.6	2314.6	2065.5	1805.5
75°	2439.8	2442.2	*2409.3*	2346.4	2323.0	2271.5	2176.3	2049.3	1907.9	1681.5	1441.9
77.5°	1827.0	1815.1	*1829.4*	1741.4	1734.8	1719.2	1718.6	1637.1	1517.3	1373.0	1183.1
80°	1217.8	1225.0	*1250.8*	1227.4	1234.0	1228.6	1262.2	1175.9	1084.8	999.8	898.5
82.5°	787.7	806.9	*814.1*	846.4	874.6	887.2	841.0	754.2	697.3	666.1	621.2
85°	756.0	763.8	*759.6*	740.4	730.8	715.2	714.6	687.1	657.7	597.8	524.7
87.5°	697.3	706.3	*702.7*	685.9	664.3	662.5	658.3	639.2	625.4	578.1	513.4
90°	594.8	595.4	*598.4*	595.4	591.2	588.2	564.3	552.9	544.5	503.8	460.1
92.5°	515.8	523.0	*521.2*	515.8	502.0	510.4	484.6	463.0	458.3	430.1	396.6
95°	473.8	478.6	*479.8*	470.2	457.1	454.1	434.3	417.5	409.7	391.2	350.4
97.5°	393.0	390.0	*387.6*	385.2	376.2	366.6	354.0	333.1	326.5	306.1	283.3
100°	335.5	336.7	*335.5*	333.7	325.9	321.1	312.1	295.3	288.1	275.0	259.4
102.5°	319.9	320.5	*320.5*	321.1	307.9	297.1	287.5	275.6	269.0	257.6	242.6
105°	305.5	305.5	*306.7*	307.3	294.1	278.5	264.8	258.2	255.2	242.0	226.4
107.5°	287.5	286.9	*288.7*	280.9	267.8	261.2	246.8	239.0	237.8	227.6	211.5

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

Scaled Data Report

REPORT NUMBER: P1046204
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	313.9	307.3	*306.1*	286.9	269.0	254.0	246.8	239.6	235.4	221.6	211.5
112.5°	410.9	401.9	*399.6*	381.6	318.7	313.3	306.7	304.3	301.9	283.3	266.0
115°	452.9	452.9	*460.1*	452.9	409.1	359.4	352.2	341.4	345.6	322.9	297.7
117.5°	362.4	387.6	*394.8*	373.2	375.0	343.2	294.1	277.4	269.0	262.4	273.8
120°	406.7	423.5	*416.3*	376.8	358.8	340.2	342.6	336.7	306.7	265.4	269.6
122.5°	606.2	621.8	*627.2*	630.2	638.6	626.0	597.8	558.3	528.3	478.6	450.5
125°	848.8	837.4	*836.2*	841.6	848.2	832.1	820.1	812.3	793.7	728.4	636.8
127.5°	779.3	773.9	*782.9*	781.7	797.9	770.4	765.0	769.2	762.0	725.4	672.1
130°	558.9	568.5	*575.1*	596.6	628.4	603.8	581.1	546.9	544.5	562.5	534.3
132.5°	469.0	473.2	*485.2*	513.4	537.3	527.1	493.6	460.7	458.3	473.2	470.8
135°	414.5	417.5	*419.3*	420.5	416.3	425.9	418.7	406.7	399.0	399.6	392.4
137.5°	370.2	371.4	*370.2*	360.6	349.2	347.4	365.4	366.0	358.8	346.2	336.7
140°	321.1	321.1	*316.3*	309.7	307.9	308.5	318.7	320.5	312.1	301.9	287.5
142.5°	251.0	248.0	*248.6*	259.4	278.5	274.4	261.2	244.4	242.0	254.0	249.2
145°	271.4	270.8	*269.0*	269.6	264.8	257.0	252.2	246.8	237.2	229.4	221.6
147.5°	273.8	271.4	*272.6*	270.2	267.8	264.2	262.4	264.8	262.4	257.0	246.8
150°	216.2	217.4	*218.6*	215.7	218.0	219.2	218.0	216.2	219.2	212.7	208.5
152.5°	168.9	168.3	*167.7*	168.9	168.3	170.7	171.3	170.7	169.5	168.9	162.3
155°	158.7	160.5	*159.3*	155.7	158.1	159.9	162.3	164.1	162.3	159.3	153.4
157.5°	146.2	146.2	*146.2*	146.2	146.8	147.4	150.4	151.6	151.6	149.8	145.6
160°	136.0	136.6	*136.6*	136.6	137.8	139.0	140.8	142.0	143.2	142.0	139.6
162.5°	130.0	129.4	*129.4*	130.0	130.0	131.8	133.6	136.0	136.6	135.4	135.4
165°	126.4	126.4	*126.4*	127.0	128.2	129.4	131.8	132.4	133.0	134.2	134.2
167.5°	130.6	130.6	*130.6*	131.2	132.4	134.2	135.4	136.6	139.0	139.6	139.6
170°	137.2	137.2	*137.2*	137.8	138.4	139.0	139.6	140.8	141.4	142.6	142.0
172.5°	143.8	143.2	*143.8*	143.8	143.8	143.8	143.8	144.4	145.0	145.0	145.0
175°	151.0	151.0	*151.6*	151.0	149.8	149.8	149.8	150.4	150.4	150.4	149.8
177.5°	158.1	158.1	*157.5*	158.1	157.5	156.9	156.3	155.7	154.5	154.5	153.4
180°	154.0	154.0	*154.0*	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0

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

Scaled Data Report

REPORT NUMBER: P1046204
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	56.9	54.5	51.5	47.9	44.3	41.9	39.5	36.5	34.7	34.1	34.1
5°	71.9	70.1	67.1	62.3	59.3	53.9	49.1	46.1	43.1	40.1	37.7
7.5°	100.6	100.0	101.8	105.4	100.6	88.1	74.9	67.7	68.3	71.9	73.7
10°	126.4	122.8	123.4	131.8	124.0	100.0	82.1	75.5	79.1	86.3	87.5
12.5°	153.4	148.0	143.8	142.0	124.6	97.6	81.5	73.7	75.5	81.5	81.5
15°	177.9	171.3	161.7	149.2	128.8	104.8	85.1	73.7	73.7	73.1	71.9
17.5°	191.7	184.5	167.1	147.4	125.2	103.6	83.3	71.9	65.9	61.1	60.5
20°	213.3	209.7	187.5	159.3	128.8	101.2	80.3	68.9	62.3	58.7	57.5
22.5°	234.2	224.0	195.3	166.5	131.8	100.6	79.1	68.3	62.3	59.3	58.1
25°	245.6	233.0	204.3	174.9	136.0	101.2	80.3	69.5	62.9	59.9	59.3
27.5°	254.6	241.4	214.5	182.7	141.4	103.6	83.9	71.3	64.1	60.5	59.9
30°	266.6	254.0	226.4	192.3	146.2	109.0	88.1	74.3	65.9	62.3	61.7
32.5°	289.3	273.8	241.4	200.7	152.2	114.4	93.4	79.1	68.9	63.5	63.5
35°	336.7	319.9	276.8	223.4	158.7	118.6	97.0	82.1	71.3	65.3	64.7
37.5°	436.1	415.1	362.4	279.7	174.9	124.6	101.2	83.9	72.5	67.1	65.9
40°	484.0	445.1	385.8	312.7	201.9	134.2	107.8	88.1	74.3	67.7	67.1
42.5°	542.1	509.8	428.3	321.1	224.0	156.3	119.2	94.0	77.9	68.9	68.3
45°	599.0	567.3	494.8	390.6	269.6	191.1	137.8	104.2	83.3	71.9	70.1
47.5°	698.5	646.4	559.5	457.1	331.9	242.0	169.5	118.6	92.3	75.5	73.1
50°	944.7	910.5	777.5	620.6	431.9	315.1	230.6	152.2	102.4	77.9	74.3
52.5°	1274.1	1209.4	1058.5	866.2	626.6	467.8	337.3	225.8	125.8	80.3	75.5
55°	1795.9	1695.3	1521.5	1188.5	899.1	709.3	527.7	370.8	191.7	85.7	76.1
57.5°	2353.6	2262.5	2055.3	1642.5	1218.4	903.3	694.9	523.6	269.0	97.6	82.7
60°	2726.8	2568.0	2331.4	1932.5	1473.0	1062.1	777.5	549.3	279.1	100.0	86.3
62.5°	2940.6	2776.5	2426.7	1968.4	1518.5	1097.4	813.5	503.2	222.8	97.0	89.9
64°	*2965.8*	*2807.6*	*2427.9*	*1934.3*	*1470.0*	*1060.9*	*788.3*	*472.0*	*193.5*	*95.8*	*91.7*
65°	2946.0	2799.9	2398.5	1893.5	1404.7	1013.6	758.4	440.9	171.9	94.6	92.3
67.5°	2753.7	2625.5	2205.0	1717.4	1249.0	875.2	622.4	339.1	134.8	92.3	91.1
70°	2230.2	2171.5	1812.7	1385.6	987.2	697.9	490.6	259.4	114.4	89.9	88.7
72.5°	1673.1	1598.8	1352.6	1057.3	769.2	542.7	372.6	199.5	101.2	87.5	86.3
75°	1341.2	1268.7	1072.3	832.7	572.1	405.5	275.6	149.2	95.2	86.9	85.7
77.5°	1108.8	1050.7	881.8	633.8	406.7	290.5	202.5	121.6	93.4	87.5	86.3
80°	853.0	843.4	688.9	461.3	288.1	216.8	163.5	113.8	94.0	89.9	88.7
82.5°	598.4	574.5	486.4	343.2	249.2	198.3	156.9	115.6	98.8	95.2	94.6
85°	493.0	474.4	416.3	330.1	237.2	191.7	155.1	118.6	103.6	100.6	99.4
87.5°	487.6	467.2	412.1	315.7	225.2	182.7	148.0	115.6	103.0	101.2	102.4
90°	442.7	427.7	376.8	291.1	223.4	185.7	154.5	127.6	114.4	108.4	107.2
92.5°	387.6	378.6	342.6	282.7	231.8	196.5	168.3	141.4	129.4	125.8	124.0
95°	338.5	334.9	305.5	257.0	213.9	185.1	159.3	136.0	125.8	121.0	120.4
97.5°	277.4	273.2	250.4	218.6	186.9	162.9	143.8	125.8	118.6	118.0	117.4
100°	253.4	250.4	234.2	213.9	188.7	170.7	154.0	139.0	133.0	133.0	133.6
102.5°	234.2	232.4	218.0	197.1	177.3	160.5	146.8	133.0	125.8	125.8	121.6
105°	218.6	215.7	202.5	185.7	165.3	149.8	136.6	126.4	118.6	116.2	116.2
107.5°	204.9	201.3	190.5	174.3	159.3	144.4	132.4	122.8	117.4	115.6	115.6

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

Scaled Data Report

REPORT NUMBER: P1046204
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	205.5	202.5	189.9	172.5	158.7	147.4	137.8	128.8	124.0	120.4	120.4
112.5°	252.8	240.2	218.0	192.3	176.7	161.7	146.8	134.2	128.2	127.0	125.8
115°	286.3	273.8	246.2	212.7	184.5	163.5	148.6	139.0	133.6	137.2	139.0
117.5°	287.5	264.8	212.1	195.9	175.5	158.1	148.0	142.0	138.4	142.0	142.0
120°	292.9	246.8	218.6	212.1	188.1	163.5	152.2	151.0	147.4	140.2	140.2
122.5°	435.5	393.6	348.6	291.7	242.0	218.6	198.3	162.9	146.2	138.4	137.8
125°	600.2	556.5	486.4	410.3	338.5	263.6	195.9	167.1	149.8	140.2	138.4
127.5°	638.0	603.8	511.6	420.5	318.7	245.6	196.5	171.9	154.5	144.4	142.6
130°	514.6	487.6	425.3	351.0	280.3	227.0	191.7	167.1	150.4	140.2	137.8
132.5°	457.7	432.5	371.4	303.7	248.6	207.3	175.5	151.6	134.8	127.6	127.6
135°	382.8	365.4	310.9	270.8	231.2	196.5	165.3	143.2	129.4	125.2	125.2
137.5°	328.3	314.5	275.6	243.8	213.3	183.3	156.3	138.4	128.8	124.6	124.0
140°	280.9	272.0	249.2	218.0	188.7	159.3	138.4	128.2	124.0	122.2	121.6
142.5°	244.4	237.8	217.4	185.1	156.3	138.4	130.6	127.6	123.4	119.2	118.6
145°	213.9	208.5	185.1	166.5	152.8	145.6	139.6	130.6	120.4	115.0	114.4
147.5°	240.2	231.8	211.5	189.9	167.7	151.0	137.8	125.8	116.2	112.6	112.6
150°	206.7	200.7	188.1	171.3	152.8	137.2	125.8	118.0	114.4	113.8	113.8
152.5°	160.5	157.5	154.0	145.6	133.6	123.4	116.2	112.6	113.8	116.2	116.8
155°	151.0	149.8	146.2	138.4	130.6	121.0	115.0	113.2	115.0	117.4	118.0
157.5°	143.8	143.2	140.2	133.0	125.8	119.8	115.6	114.4	116.2	118.0	118.0
160°	137.8	137.2	133.0	127.6	122.2	118.0	115.0	115.0	116.8	118.0	118.0
162.5°	134.2	133.6	130.6	126.4	122.8	120.4	119.8	119.8	120.4	121.0	121.0
165°	134.2	133.6	130.6	127.0	124.6	124.6	125.8	126.4	124.6	123.4	124.0
167.5°	139.6	138.4	134.8	131.8	131.2	131.8	133.6	133.6	132.4	130.6	130.0
170°	141.4	140.8	139.6	138.4	138.4	138.4	139.0	139.6	139.6	140.2	140.2
172.5°	145.0	145.0	144.4	144.4	145.0	144.4	144.4	145.6	146.8	147.4	148.0
175°	149.8	149.2	149.8	149.8	150.4	149.8	149.2	150.4	152.2	153.4	153.4
177.5°	153.4	153.4	152.8	152.2	152.2	152.2	152.2	152.8	152.8	152.8	152.2
180°	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0

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: SP1-2501-332-4

Test Date: 03/21/2025

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

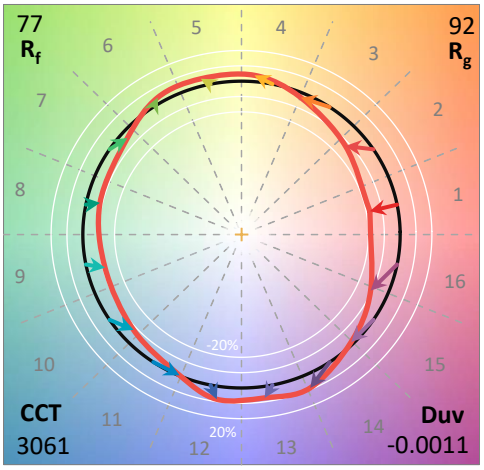
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
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):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

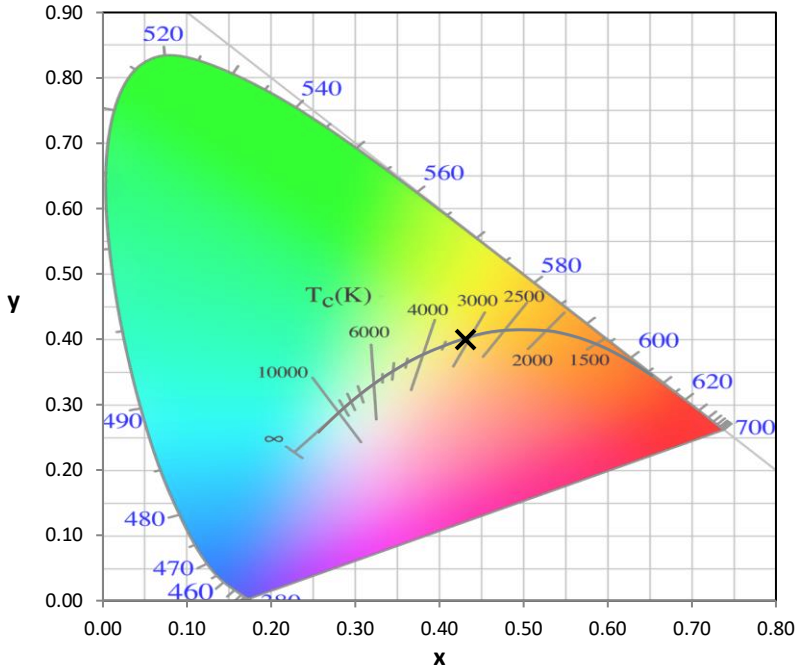
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

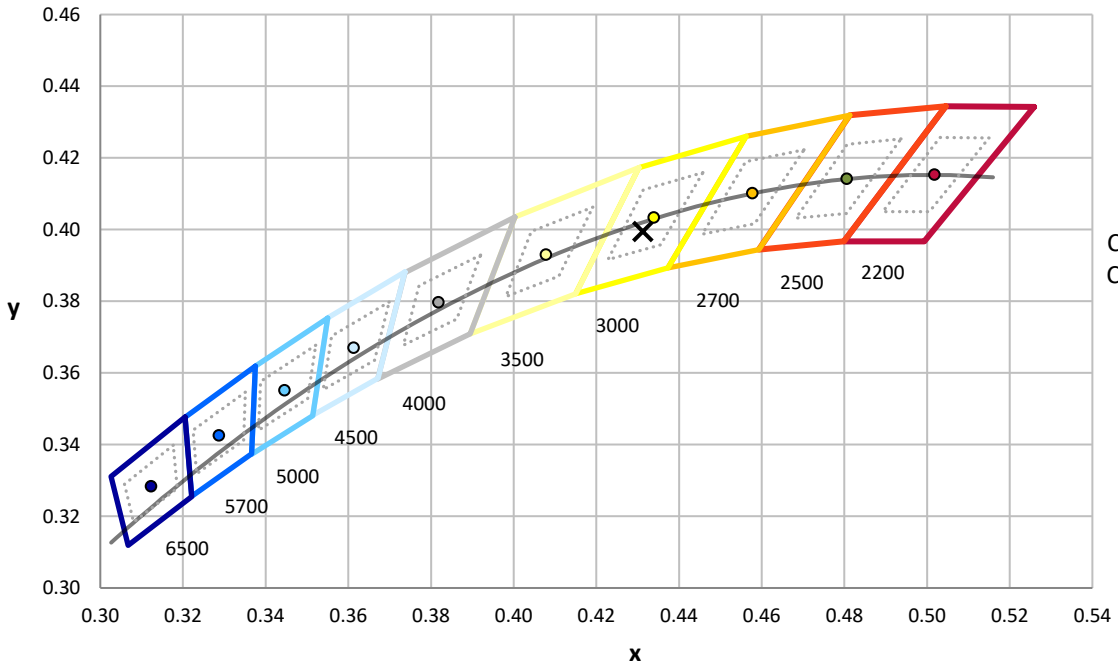
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



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

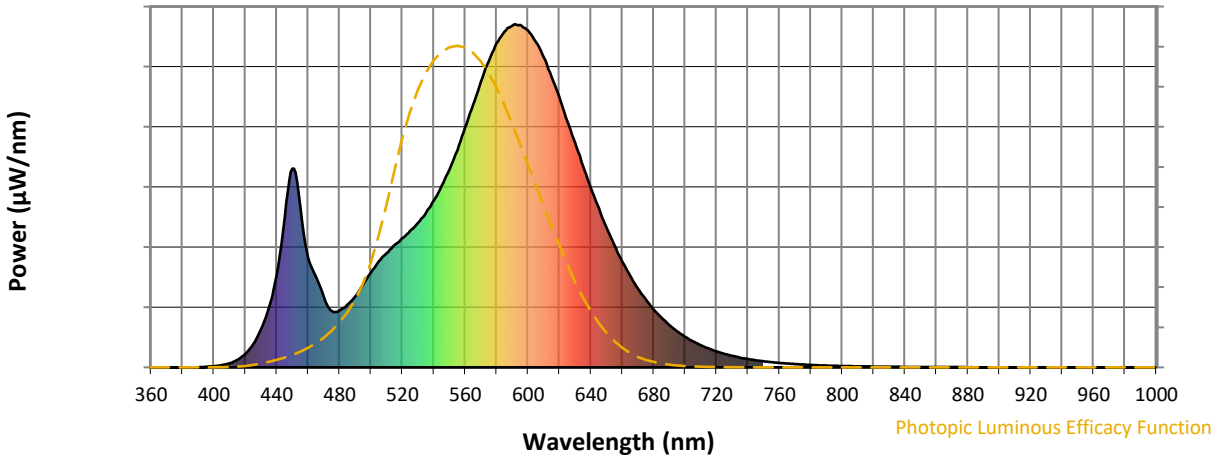


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

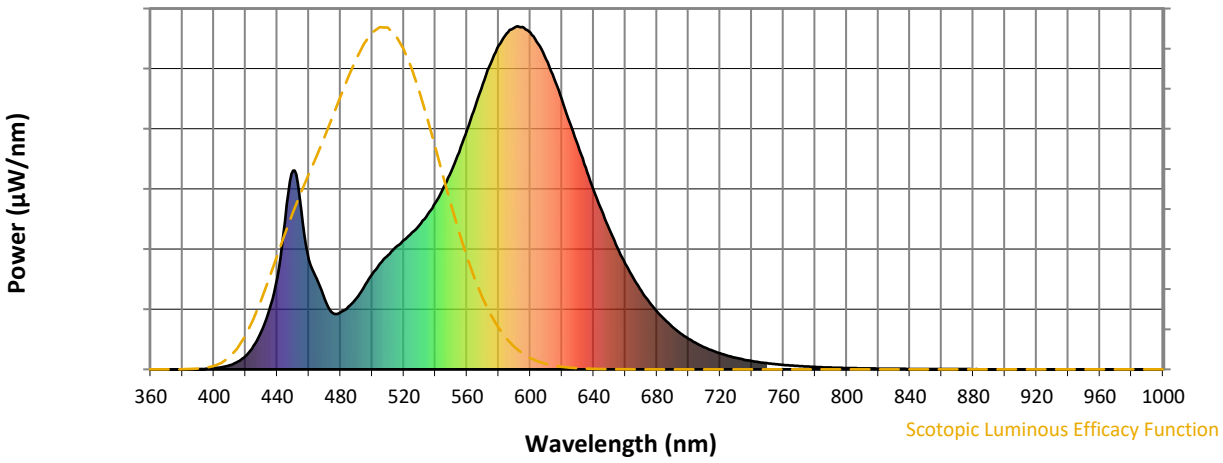


Photopic Lumens: NR

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

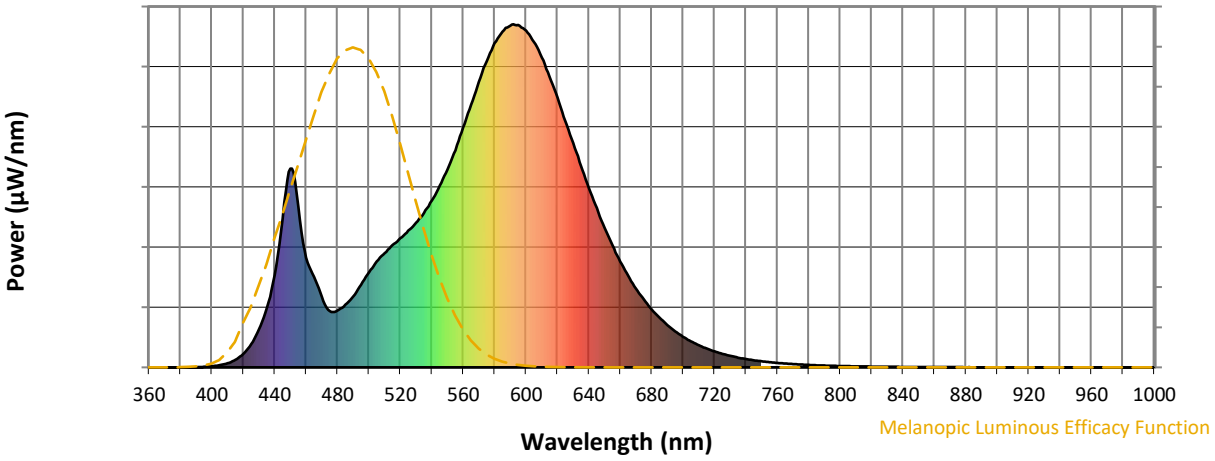


Scotopic Lumens: NR **S/P: 1.29**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

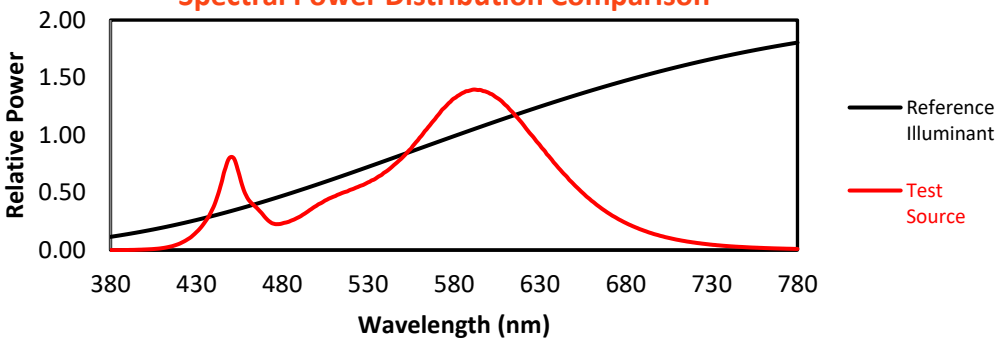
REPORT NUMBER: SP1-2501-332-4

TM-30-18

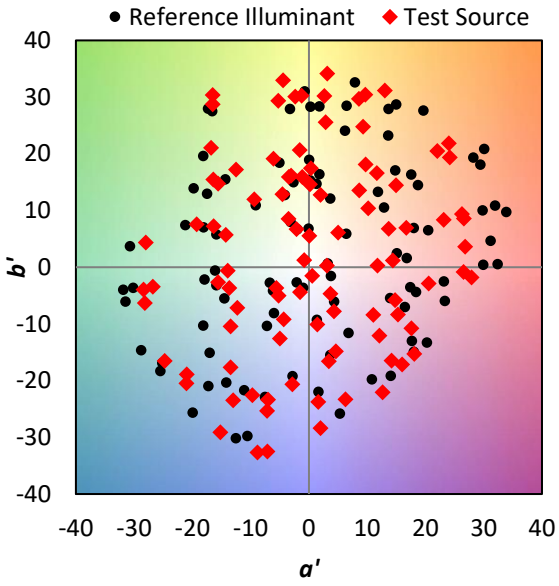
Summary

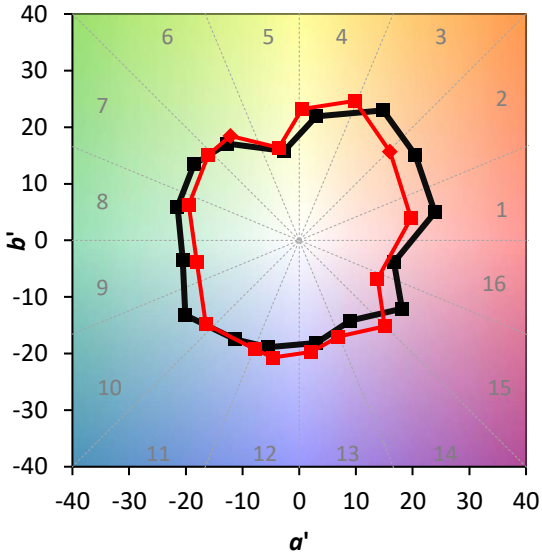
R_f = 76.8
R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

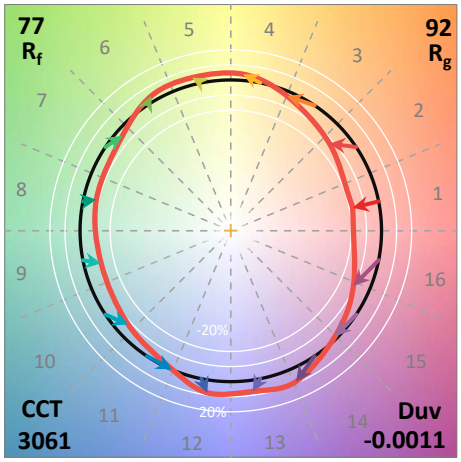
Spectral Power Distribution Comparison

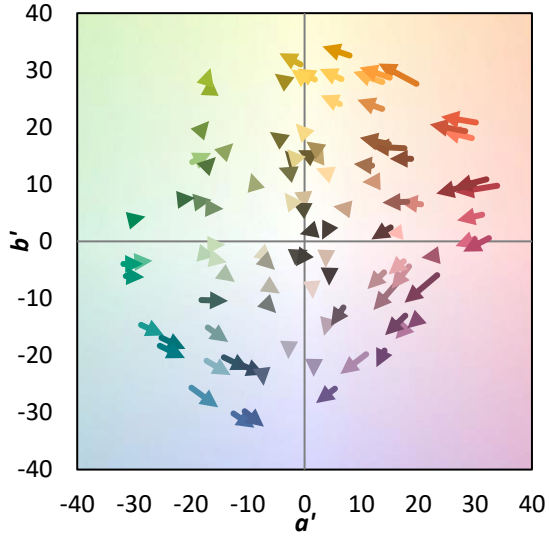


Color Vector Graphics







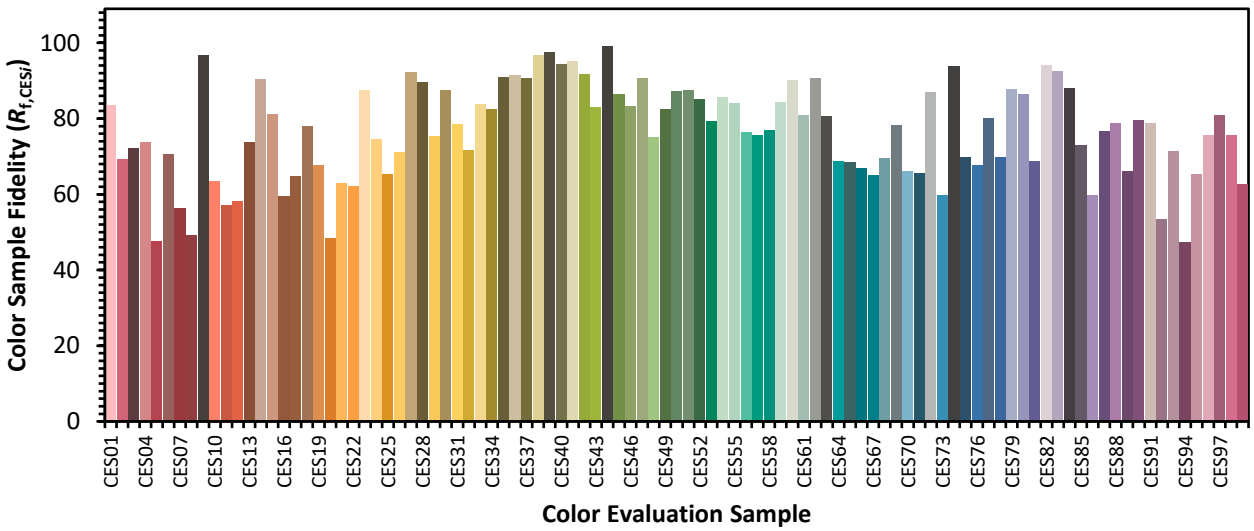


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

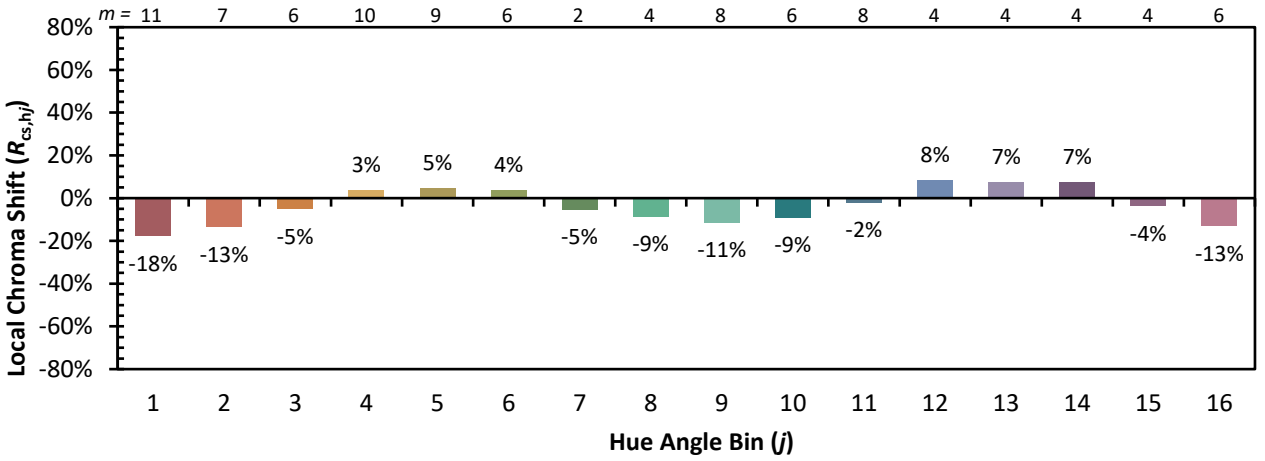
CES01 = 86	CES26 = 71	CES51 = 88	CES76 = 68
CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
CES25 = 73	CES50 = 87	CES75 = 70	

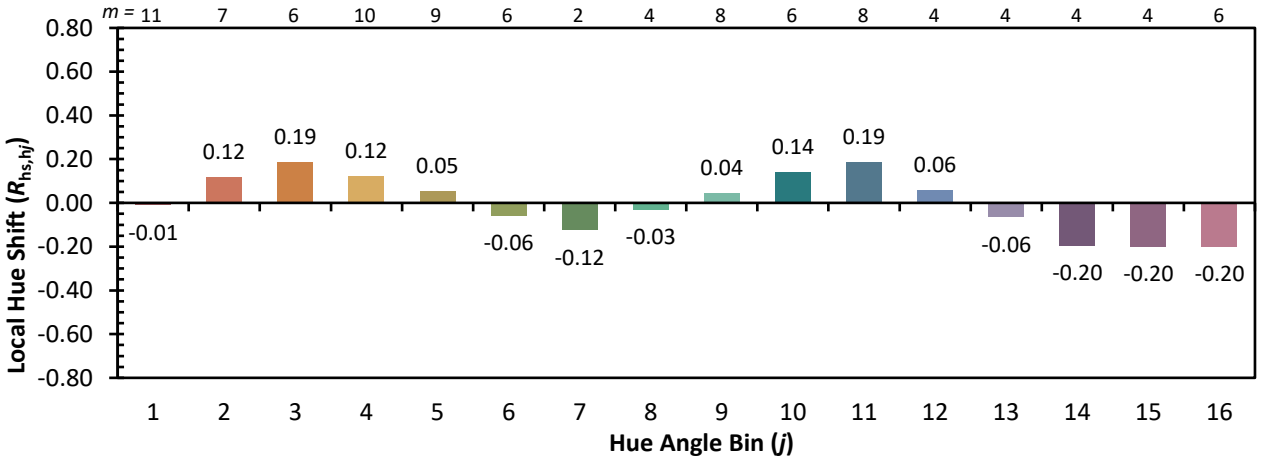


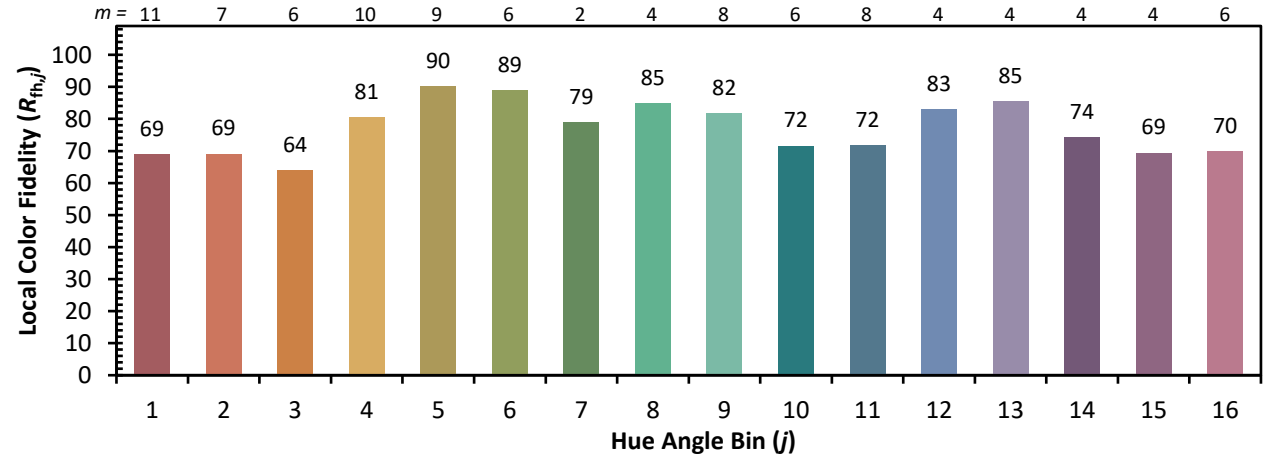
REPORT NUMBER: SP1-2501-332-4

TM-30-18

Color Rendition by Hue-Angle Bin



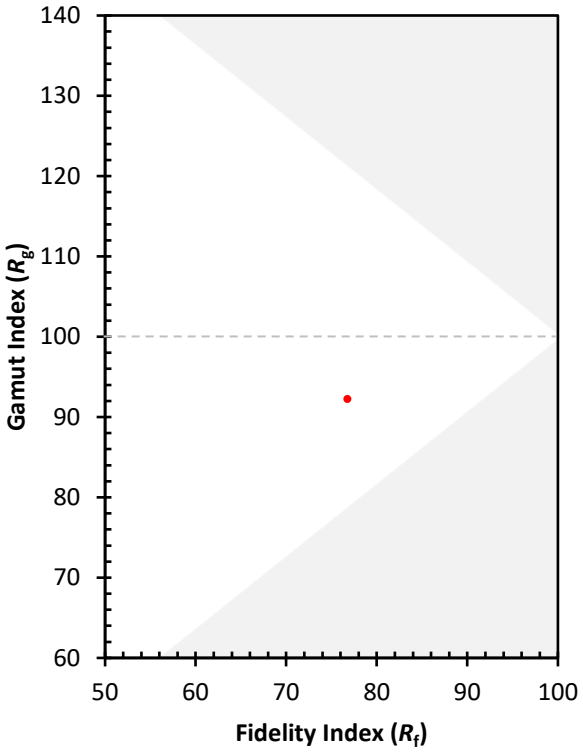


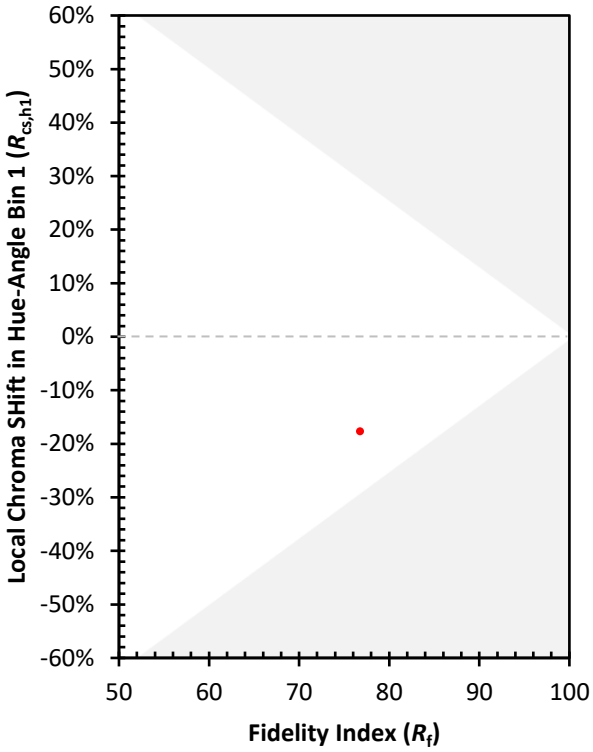


REPORT NUMBER: SP1-2501-332-4

TM-30-18

Measure Comparisons





(END OF REPORT)