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: P1045844

Luminaire Tested: **FFX-CLB-60-730-U-VM8-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045844
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-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6459.1 lumens
Efficiency:	N/A
Efficacy:	106.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G4

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

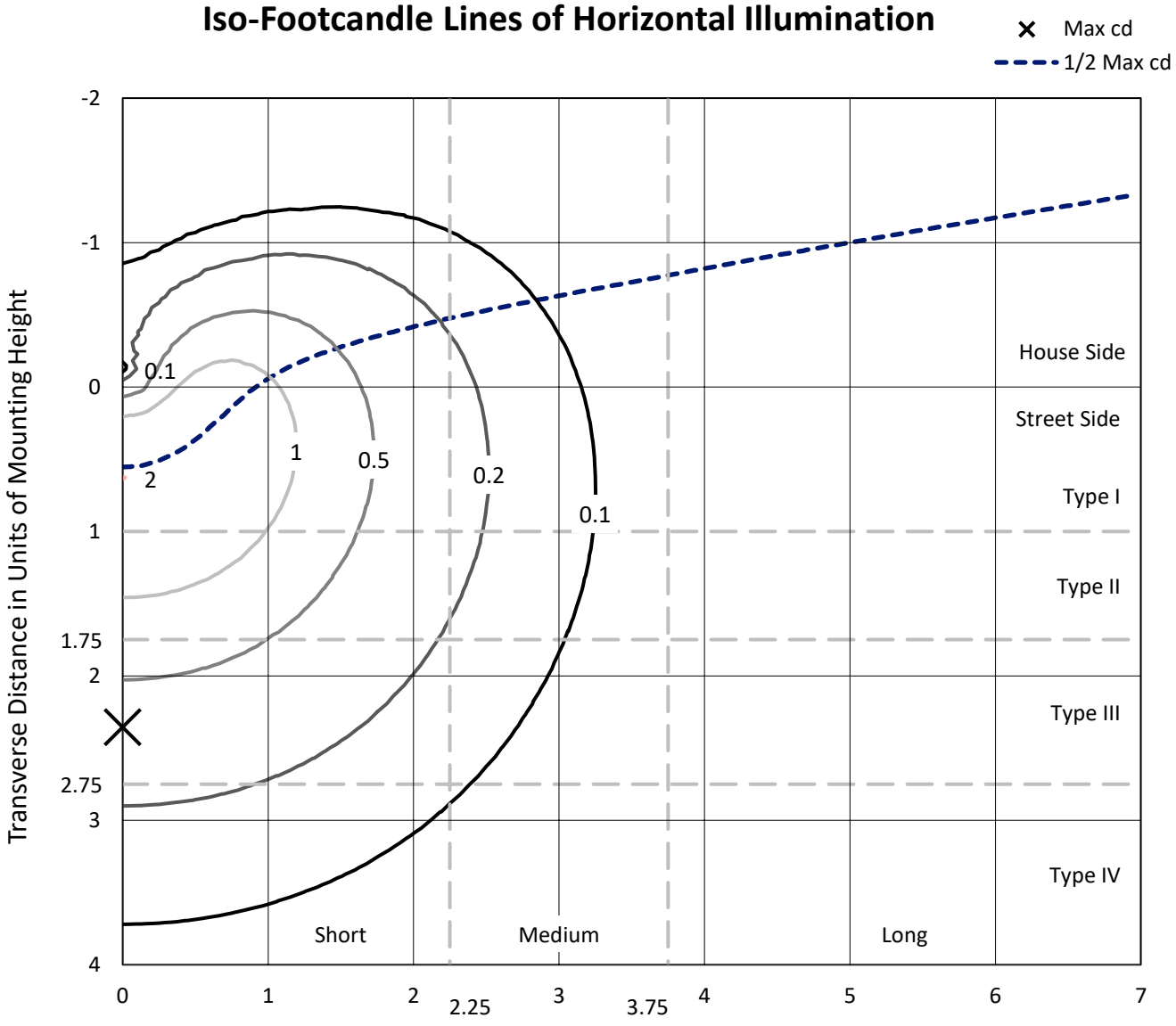


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CATALOG NUMBER: FFX-CLB-60-730-U-VM8-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



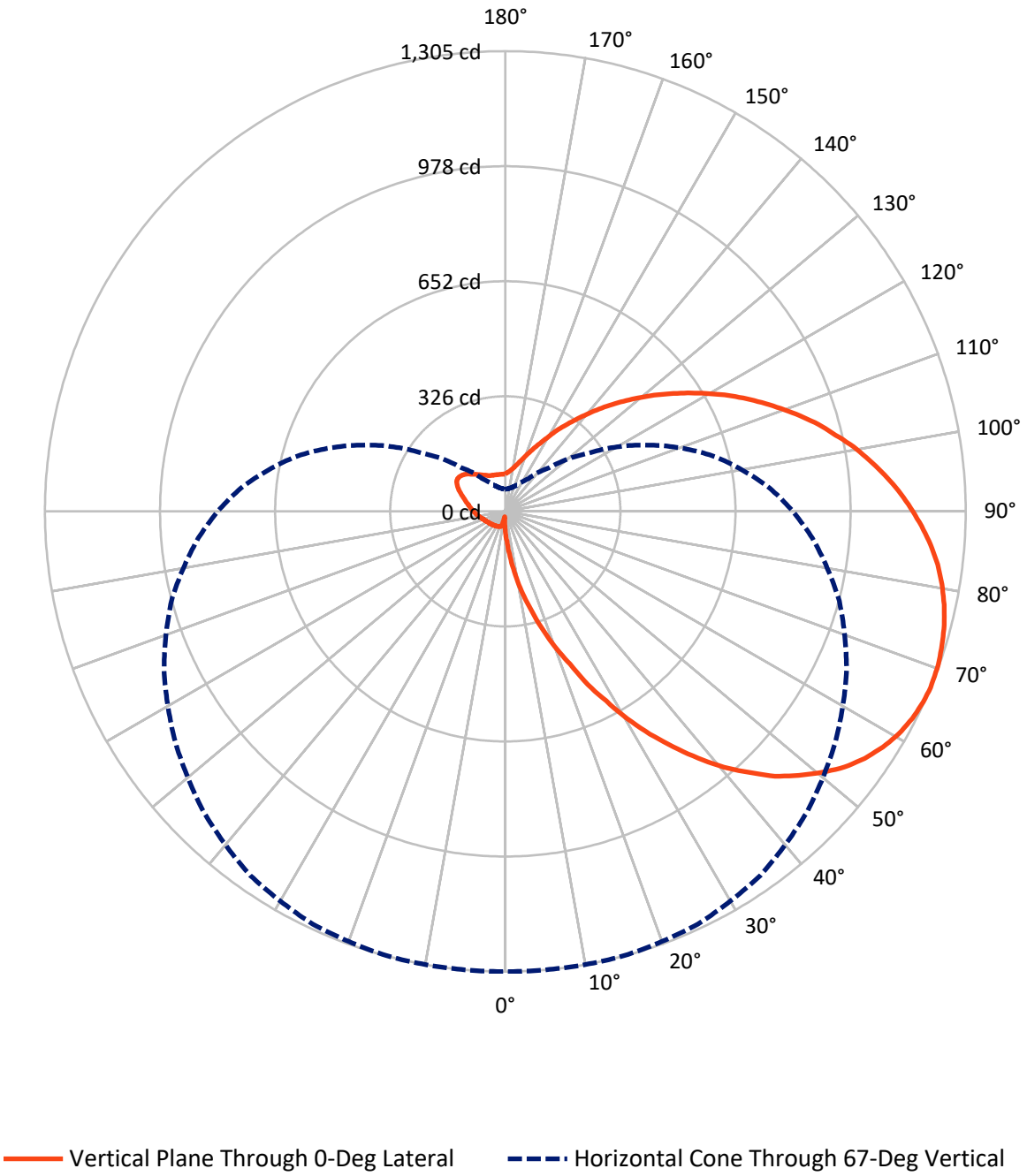
Based on 15 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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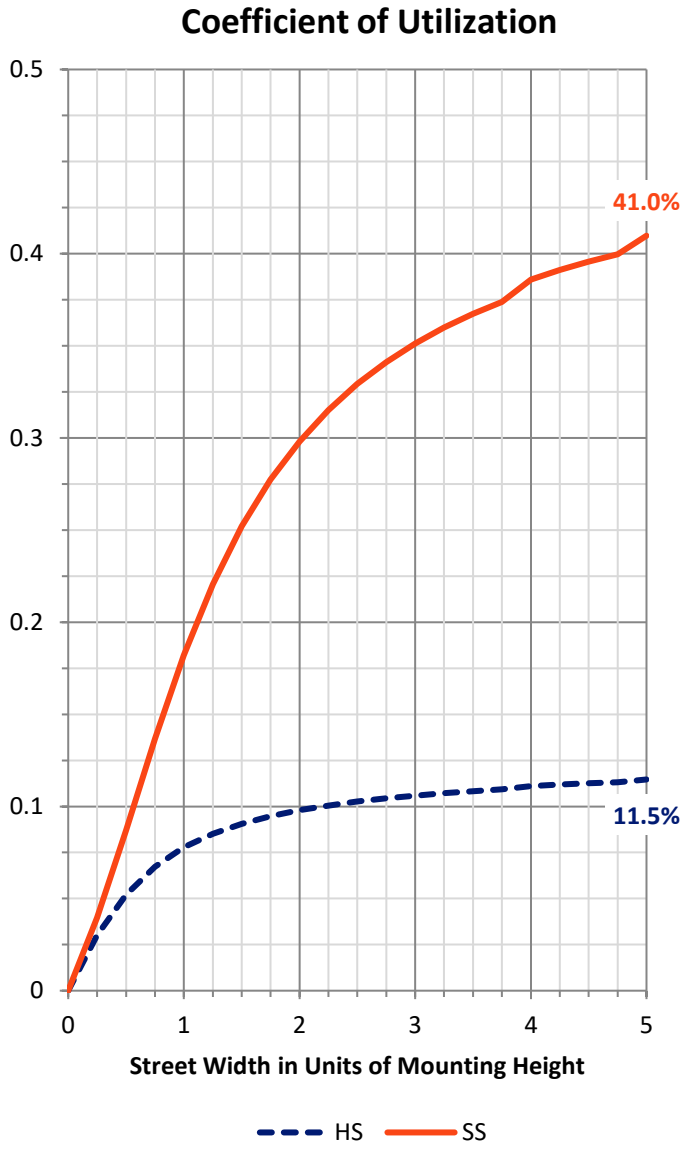
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	799.9	762.0	1561.9
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	3016.0	1881.3	4897.3
	% Fixture	46.7	29.1	75.8
Total	Lumens	3815.8	2643.3	6459.1
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.1
10°-20°	53.7	0.8
20°-30°	149.9	2.3
30°-40°	299.9	4.6
40°-50°	471.2	7.3
50°-60°	619.6	9.6
60°-70°	715.4	11.1
70°-80°	755.0	11.7
80°-90°	742.5	11.5
90°-100°	681.5	10.6
100°-110°	589.4	9.1
110°-120°	483.8	7.5
120°-130°	368.9	5.7
130°-140°	248.4	3.8
140°-150°	147.2	2.3
150°-160°	77.4	1.2
160°-170°	36.1	0.6
170°-180°	10.5	0.2
0°-90°	3815.8	59.1
0°-180°	6459.1	100.0



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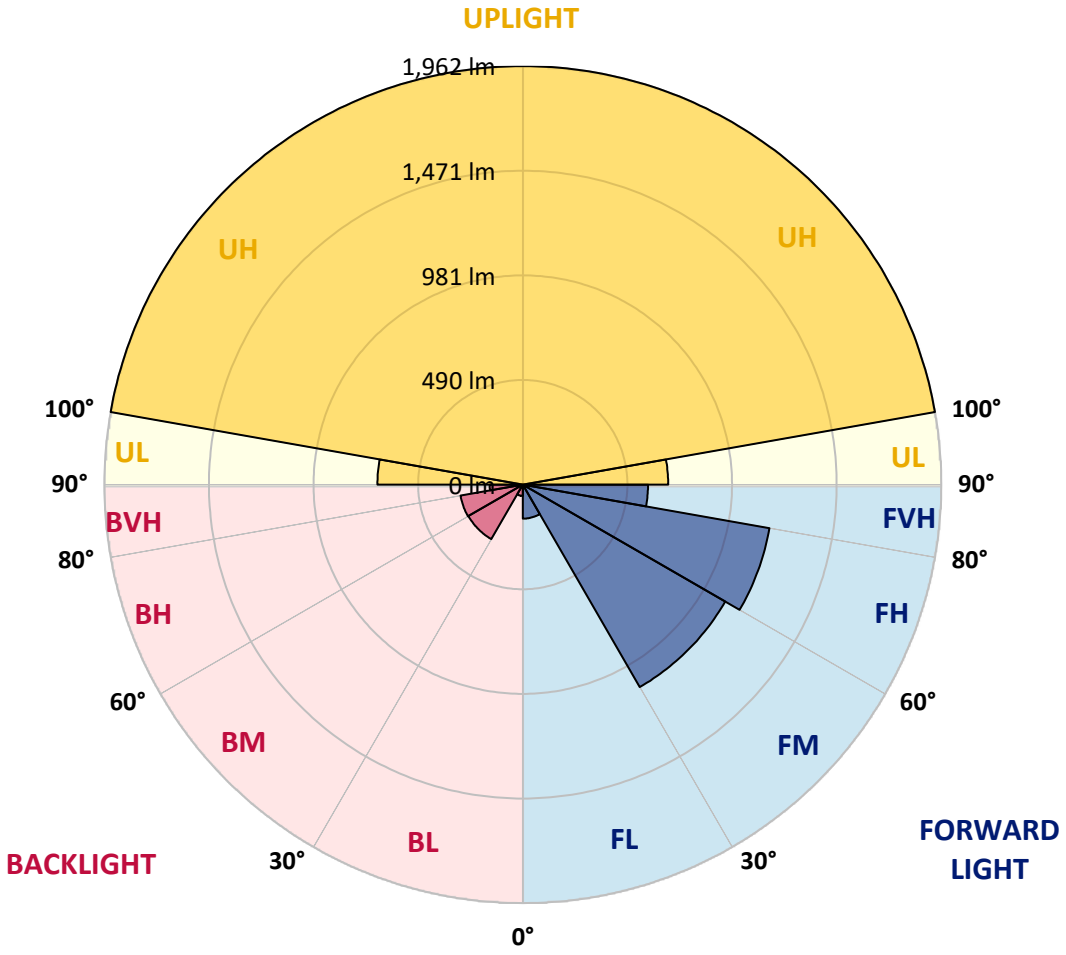
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	159.4	2.5			
FM	(30°-60°)	1095.8	17.0			
FH	(60°-80°)	1173.9	18.2			G1/1800
FVH	(80°-90°)	586.8	9.1			G4/750
BL	(0°-30°)	52.7	0.8	B0/110		
BM	(30°-60°)	294.9	4.6	B1/1000		
BH	(60°-80°)	296.5	4.6	B1/500		G1/500
BVH	(80°-90°)	155.7	2.4			G2/225
UL	(90°-100°)	681.5	10.6		U4/1000	
UH	(100°-180°)	1961.8	30.4		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
2.5°	83.4	84.8	84.8	84.1	83.4	82.0	80.6	77.7	72.1	67.8	63.6
5°	120.8	120.8	121.6	120.8	118.0	115.2	108.8	103.9	94.7	87.6	79.9
7.5°	164.0	166.1	165.4	163.2	158.3	151.9	144.2	135.0	125.8	115.2	103.2
10°	212.0	211.3	211.3	208.5	202.8	194.3	185.9	175.3	161.8	148.4	132.9
12.5°	257.2	259.4	257.9	254.4	247.3	241.0	230.4	218.4	202.8	188.7	167.5
15°	306.0	307.4	307.4	305.3	298.9	289.7	277.7	266.4	245.9	226.1	205.6
17.5°	361.8	359.7	356.9	356.9	349.1	341.3	329.3	313.8	291.2	269.2	241.7
20°	417.7	416.9	413.4	411.3	406.3	395.0	379.5	361.8	339.2	314.5	282.0
22.5°	469.9	477.0	476.3	472.8	466.4	455.1	438.1	416.9	393.6	362.5	325.1
25°	544.2	539.9	540.6	537.1	531.4	518.0	501.0	476.3	448.0	413.4	371.0
27.5°	608.5	607.0	607.0	604.9	597.2	583.0	563.2	539.9	507.4	466.4	419.1
30°	682.7	679.1	677.7	675.6	667.8	652.3	631.8	602.8	567.5	525.8	469.9
32.5°	752.6	749.8	744.9	744.1	738.5	722.2	698.9	669.2	629.0	580.2	518.7
35°	819.8	821.2	819.1	815.5	807.7	792.2	769.6	733.5	694.0	637.4	571.0
37.5°	887.6	886.9	888.3	885.5	873.5	858.6	831.8	793.6	748.4	686.9	616.9
40°	954.0	950.5	949.8	947.0	938.5	923.6	893.3	854.4	803.5	739.9	660.8
42.5°	1011.3	1012.7	1011.3	1008.4	997.1	980.2	948.4	905.3	851.6	783.0	701.7
45°	1071.3	1069.2	1068.5	1068.5	1053.7	1036.0	1001.4	956.9	896.8	823.3	737.1
47.5°	1118.7	1121.5	1120.1	1116.6	1106.7	1084.8	1048.0	999.3	936.4	860.8	768.9
50°	1163.2	1166.7	1167.5	1163.9	1151.9	1127.9	1089.7	1035.3	971.7	891.8	796.4
52.5°	1204.2	1203.5	1205.6	1203.5	1192.2	1167.5	1123.6	1068.5	1000.0	918.0	817.6
55°	1236.0	1236.0	1237.4	1234.6	1224.0	1196.4	1151.2	1092.5	1022.6	938.5	836.0
57.5°	1261.4	1262.9	1262.2	1261.4	1249.4	1220.5	1172.4	1111.6	1041.0	953.3	849.4
60°	1281.2	1281.9	1281.9	1280.5	1268.5	1238.1	1189.4	1126.5	1053.0	966.0	860.0
62.5°	1294.0	1294.7	1294.7	1293.2	1281.2	1250.1	1200.7	1135.7	1061.5	973.8	867.1
65°	1301.7	1302.4	1302.4	1301.0	1289.0	1257.2	1206.3	1140.6	1065.7	978.1	871.4
67°	1304.6	1304.6	1304.6	1303.8	1291.1	1260.0	1207.7	1141.3	1067.1	979.5	873.5
67.5°	1303.8	1303.8	1304.6	1303.1	1291.1	1259.3	1207.0	1141.3	1066.4	979.5	873.5
70°	1301.7	1301.7	1301.7	1300.3	1288.3	1256.5	1204.2	1137.8	1064.3	978.1	872.8
72.5°	1294.0	1294.7	1294.7	1293.2	1281.2	1250.1	1197.8	1131.4	1058.6	973.8	870.6
75°	1284.8	1284.8	1284.8	1283.4	1271.3	1240.2	1188.7	1122.9	1051.6	968.2	866.4
77.5°	1271.3	1271.3	1271.3	1269.9	1257.9	1227.5	1176.6	1112.3	1042.4	960.4	861.5
80°	1254.4	1255.1	1254.4	1253.0	1241.0	1210.6	1161.8	1098.9	1030.4	951.2	854.4
82.5°	1234.6	1235.3	1234.6	1231.8	1220.5	1191.5	1142.7	1081.2	1016.2	939.2	845.9
85°	1209.1	1208.4	1209.1	1204.9	1195.0	1166.0	1121.5	1061.5	998.6	925.1	833.9
87.5°	1180.2	1180.9	1179.5	1177.3	1165.3	1137.1	1094.7	1038.8	978.1	908.1	819.8
90°	1148.4	1148.4	1147.7	1144.8	1132.1	1106.7	1066.4	1012.7	956.2	889.0	804.9
92.5°	1115.9	1115.2	1113.0	1111.6	1100.3	1074.2	1035.3	987.2	934.2	869.9	789.4
95°	1079.8	1079.8	1078.4	1075.6	1062.9	1041.7	1004.2	959.0	908.8	849.4	773.1
97.5°	1041.7	1041.0	1040.3	1036.0	1024.7	1003.5	973.1	929.3	883.4	827.5	754.7
100°	1004.2	1002.1	1000.7	996.4	986.5	966.0	937.1	898.9	854.4	803.5	735.0
102.5°	960.4	960.4	959.7	955.4	942.7	925.8	899.6	865.7	827.5	778.8	713.8
105°	921.5	918.0	916.6	912.3	902.4	884.1	862.2	832.5	797.1	751.9	692.6
107.5°	877.7	874.9	874.2	867.8	860.0	843.1	824.7	797.1	767.5	727.2	670.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*833.2*	831.8	831.1	824.7	814.8	803.5	784.4	762.5	736.4	699.6	650.2
112.5°	*789.4*	788.0	788.0	783.0	773.8	759.7	746.3	727.2	703.9	672.1	626.1
115°	*746.3*	744.1	743.4	737.8	728.6	718.0	704.6	691.1	671.4	644.5	602.8
117.5°	*703.2*	700.3	701.0	696.1	689.0	678.4	665.7	656.5	639.6	614.8	579.5
120°	*658.6*	659.3	659.3	653.0	646.6	638.1	627.5	618.4	607.0	585.1	552.6
122.5°	*616.2*	617.6	617.6	613.4	605.6	597.9	590.8	582.3	572.4	555.5	526.5
125°	*573.8*	576.7	575.2	571.7	565.4	556.9	551.9	544.9	537.1	523.0	497.5
127.5°	*535.0*	535.0	531.4	532.1	525.8	518.7	514.5	509.5	501.8	488.3	467.8
130°	*494.7*	495.4	496.1	491.9	486.2	480.6	476.3	474.2	467.8	456.5	436.0
132.5°	*457.9*	457.9	456.5	453.7	448.7	444.5	444.5	438.1	433.2	422.6	404.9
135°	*421.9*	421.2	421.2	418.4	414.8	412.7	407.8	404.9	400.0	390.1	376.7
137.5°	*386.6*	388.0	386.6	384.4	380.9	378.1	374.5	373.8	366.8	359.7	344.9
140°	*352.6*	354.8	352.6	351.9	349.1	345.6	343.5	340.6	338.5	329.3	316.6
142.5°	*320.8*	322.3	320.8	320.1	318.0	315.2	313.8	311.7	306.7	301.1	290.5
145°	*293.3*	292.6	292.6	291.9	289.0	286.9	284.8	283.4	280.6	274.9	262.9
147.5°	*266.4*	264.3	265.7	264.3	262.2	260.8	260.1	257.2	254.4	248.8	240.3
150°	*238.9*	240.3	239.6	238.9	236.7	236.7	234.6	232.5	230.4	224.0	218.4
152.5°	*216.2*	216.2	217.0	215.5	214.8	212.7	211.3	210.6	207.8	203.5	197.2
155°	*197.2*	196.5	196.5	196.5	195.0	192.9	192.2	190.8	189.4	184.4	178.8
157.5°	*178.8*	178.8	178.8	178.1	178.1	176.0	175.3	173.1	171.0	168.2	163.2
160°	*163.2*	163.2	162.5	162.5	161.8	161.1	159.7	157.6	156.2	154.1	149.8
162.5°	*150.5*	149.8	149.8	149.1	148.4	147.0	146.3	145.6	143.5	141.3	137.8
165°	*138.5*	138.5	138.5	137.8	137.1	136.4	135.7	134.3	132.9	131.4	129.3
167.5°	*129.3*	129.3	129.3	128.6	128.6	127.9	127.2	125.8	124.4	123.0	121.6
170°	*122.3*	122.3	122.3	121.6	120.8	120.1	119.4	118.7	118.0	116.6	115.9
172.5°	*116.6*	116.6	116.6	116.6	115.2	114.5	113.8	113.8	113.1	112.4	111.7
175°	*111.7*	111.7	111.7	111.7	111.0	110.2	109.5	109.5	108.8	108.1	107.4
177.5°	*108.8*	108.8	108.8	108.1	108.1	107.4	106.7	106.7	106.0	106.0	105.3
180°	*105.3*	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
2.5°	60.8	57.9	53.0	48.8	45.2	41.7	39.6	37.5	37.5	38.2	36.7
5°	73.5	68.5	59.4	49.5	41.0	33.9	28.3	23.3	19.1	17.0	17.0
7.5°	97.5	91.9	79.1	66.4	54.4	43.1	33.9	26.1	19.8	16.3	15.5
10°	125.1	118.7	101.1	85.5	70.7	56.5	44.5	33.9	26.9	23.3	22.6
12.5°	156.9	148.4	127.2	107.4	88.3	70.7	55.8	43.8	36.7	33.2	32.5
15°	193.6	180.2	156.2	131.4	106.7	84.8	67.1	53.7	45.9	41.0	41.0
17.5°	226.8	212.7	183.7	151.9	123.7	98.2	77.0	60.8	50.2	45.2	44.5
20°	265.0	245.9	211.3	174.6	139.9	108.8	83.4	65.0	52.3	45.9	45.9
22.5°	303.9	284.1	241.7	197.2	155.5	118.7	89.7	67.8	53.7	46.6	45.9
25°	349.8	323.0	272.1	221.9	173.1	129.3	95.4	70.7	55.1	48.1	46.6
27.5°	394.3	366.8	307.4	246.6	189.4	139.9	100.4	73.5	56.5	48.8	48.1
30°	441.0	407.1	339.9	272.1	206.4	149.1	105.3	75.6	57.2	49.5	48.1
32.5°	487.6	450.2	376.0	296.8	222.6	157.6	109.5	77.0	58.7	50.2	48.8
35°	535.0	494.7	410.6	321.5	237.4	165.4	112.4	78.4	59.4	50.2	49.5
37.5°	576.0	533.6	443.1	344.2	250.2	171.7	115.2	79.9	59.4	50.9	50.2
40°	616.9	571.0	471.4	363.2	261.5	176.7	117.3	80.6	60.1	51.6	50.9
42.5°	653.7	602.8	496.1	380.2	270.7	180.2	118.0	80.6	60.8	52.3	51.6
45°	686.9	635.3	519.4	396.5	278.4	182.3	118.7	81.3	61.5	53.0	52.3
47.5°	717.3	662.2	540.6	409.9	284.8	184.4	118.7	81.3	62.2	54.4	53.0
50°	742.7	684.8	558.3	421.2	289.0	185.2	118.0	81.3	62.9	55.1	54.4
52.5°	762.5	703.9	573.1	429.0	291.9	184.4	117.3	81.3	63.6	55.8	55.1
55°	779.5	719.4	583.7	435.3	292.6	183.0	116.6	81.3	64.3	57.2	56.5
57.5°	792.2	730.7	592.9	440.3	293.3	181.6	115.2	81.3	65.0	57.9	57.2
60°	802.1	740.6	600.0	443.1	292.6	179.5	114.5	81.3	65.7	59.4	58.7
62.5°	809.2	746.3	604.2	443.8	290.5	177.4	113.1	81.3	66.4	60.8	60.1
65°	813.4	750.5	607.8	444.5	288.3	175.3	112.4	82.0	67.8	62.9	62.2
67°	*814.8*	*752.6*	*608.5*	*444.5*	*286.9*	*173.8*	*112.4*	*82.7*	*69.3*	*63.6*	*62.9*
67.5°	815.5	752.6	608.5	443.8	286.2	173.8	112.4	82.7	69.3	64.3	63.6
70°	814.8	752.6	608.5	442.4	284.1	172.4	111.7	84.1	71.4	66.4	65.7
72.5°	813.4	751.2	607.0	440.3	281.3	171.0	112.4	85.5	73.5	68.5	67.8
75°	809.9	748.4	604.2	437.4	279.1	169.6	113.1	86.9	75.6	71.4	70.7
77.5°	806.3	744.9	602.1	434.6	277.0	169.6	113.8	89.0	78.4	74.2	73.5
80°	800.0	739.9	597.9	431.8	274.9	168.9	115.2	91.9	81.3	77.0	76.3
82.5°	792.2	732.8	592.2	427.5	272.8	168.9	117.3	94.0	84.1	79.9	79.1
85°	781.6	723.7	585.1	421.9	270.7	169.6	118.7	96.8	86.9	83.4	82.7
87.5°	769.6	712.3	576.7	416.9	268.5	169.6	120.8	99.6	89.7	86.2	86.2
90°	755.5	700.3	566.8	411.3	266.4	171.0	123.7	102.5	93.3	89.7	89.7
92.5°	742.7	687.6	559.0	405.6	265.0	172.4	126.5	106.0	96.8	93.3	93.3
95°	725.8	674.2	547.7	400.7	264.3	173.8	129.3	109.5	101.1	97.5	96.8
97.5°	709.5	659.3	537.8	395.0	263.6	176.7	132.9	113.8	104.6	101.1	101.1
100°	691.9	644.5	526.5	390.1	263.6	180.2	137.8	118.0	109.5	106.0	105.3
102.5°	674.9	628.2	515.2	385.1	265.0	183.7	142.8	123.0	114.5	111.0	110.2
105°	655.8	611.3	505.3	380.9	266.4	188.7	148.4	129.3	120.1	116.6	115.9
107.5°	636.7	595.7	494.0	377.4	269.2	195.0	155.5	135.7	126.5	122.3	121.6

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

Scaled Data Report

REPORT NUMBER: P1045844
CATALOG NUMBER: FFX-CLB-60-730-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	616.2	578.8	484.1	374.5	273.5	202.1	163.2	144.2	133.6	129.3	128.6
112.5°	597.2	561.8	473.5	372.4	277.7	210.6	172.4	151.9	142.0	136.4	135.7
115°	576.0	544.2	463.6	370.3	282.7	219.1	182.3	160.4	149.8	144.2	144.2
117.5°	555.5	525.8	452.3	368.2	287.6	228.3	191.5	169.6	157.6	151.9	151.2
120°	531.4	506.0	440.3	363.9	290.5	235.3	199.3	177.4	164.0	158.3	157.6
122.5°	507.4	484.1	424.7	357.6	291.2	239.6	204.9	183.7	169.6	163.2	162.5
125°	479.8	460.1	408.5	347.7	289.0	241.7	208.5	185.9	171.7	164.7	164.0
127.5°	453.0	433.9	389.4	335.7	283.4	239.6	207.8	185.9	171.7	164.0	163.2
130°	424.0	407.1	366.8	320.8	274.2	234.6	204.9	183.0	168.9	161.1	160.4
132.5°	394.3	380.2	344.9	304.6	262.9	226.8	198.6	178.1	164.0	156.9	156.2
135°	365.4	352.6	322.3	286.2	250.9	217.7	191.5	171.7	157.6	151.2	151.2
137.5°	337.8	325.8	298.9	268.5	236.7	207.1	183.0	164.0	151.9	145.6	144.2
140°	309.5	299.6	276.3	249.5	221.9	195.8	173.8	156.2	144.9	139.2	138.5
142.5°	283.4	274.9	255.1	233.2	207.8	185.2	164.7	149.8	139.2	133.6	132.9
145°	258.6	250.9	233.9	214.1	193.6	173.8	155.5	142.0	132.9	128.6	127.9
147.5°	233.9	229.0	214.8	198.6	179.5	161.8	147.0	135.7	127.2	123.7	123.0
150°	213.4	207.1	196.5	181.6	166.8	151.9	139.2	129.3	123.0	119.4	119.4
152.5°	192.9	189.4	178.8	167.5	154.8	142.8	131.4	123.7	118.7	115.9	115.9
155°	177.4	172.4	163.2	154.1	143.5	133.6	125.8	119.4	115.2	113.1	112.4
157.5°	161.1	158.3	151.2	142.8	135.0	127.2	120.8	115.9	112.4	111.0	110.2
160°	147.7	145.6	139.9	133.6	127.2	121.6	116.6	113.1	110.2	108.8	108.8
162.5°	136.4	135.0	130.0	125.8	120.8	116.6	113.1	110.2	108.8	108.1	108.1
165°	127.9	126.5	123.0	119.4	116.6	113.1	111.0	108.8	107.4	107.4	107.4
167.5°	120.8	119.4	117.3	115.2	113.1	110.2	108.8	107.4	107.4	106.7	106.7
170°	115.2	114.5	112.4	111.0	109.5	108.1	107.4	106.7	106.0	106.0	106.0
172.5°	111.0	110.2	108.8	108.1	106.7	106.0	106.0	106.0	106.0	106.0	106.0
175°	107.4	106.7	106.7	106.0	105.3	105.3	104.6	105.3	105.3	105.3	105.3
177.5°	105.3	105.3	104.6	104.6	104.6	104.6	104.6	105.3	105.3	106.0	106.0
180°	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3

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

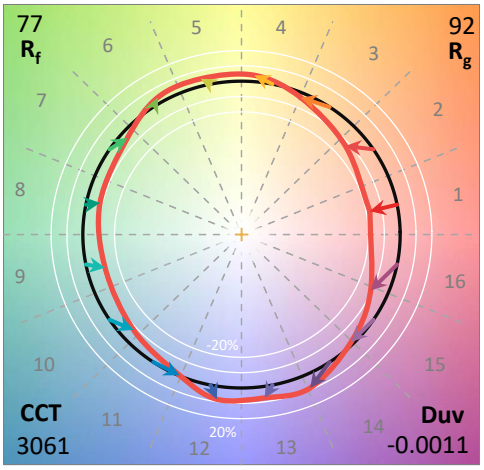
Test Information

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

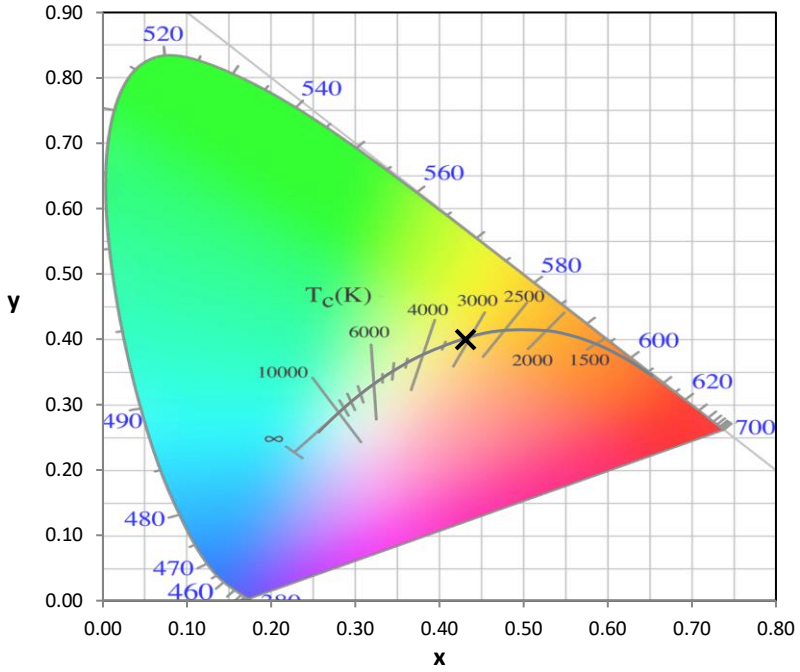
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

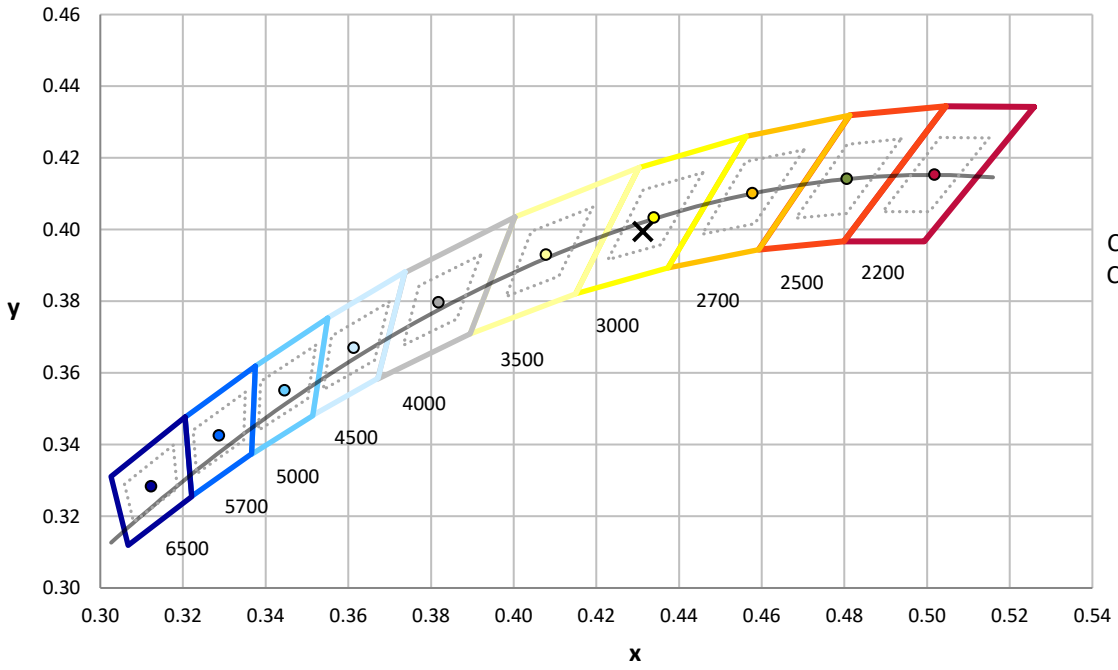
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

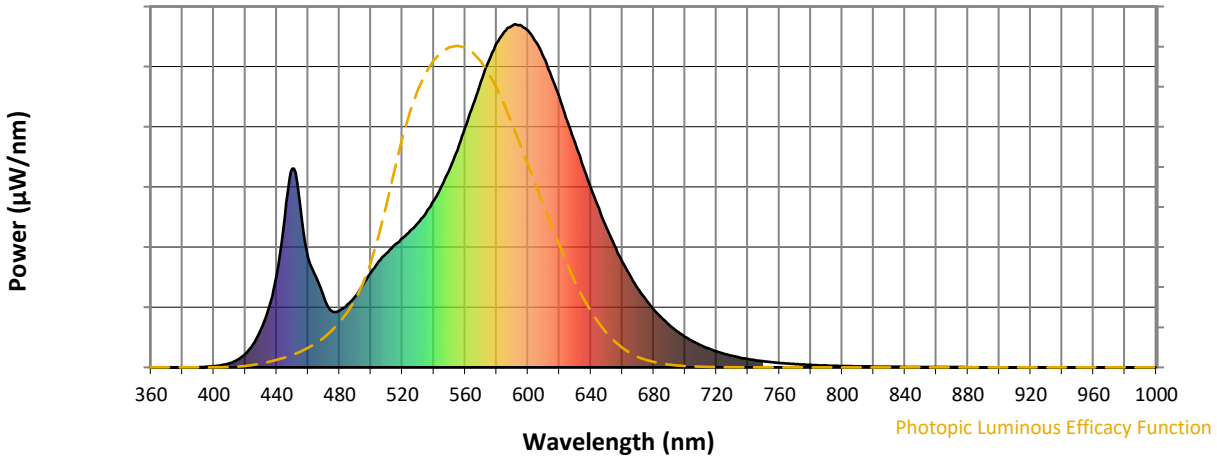


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

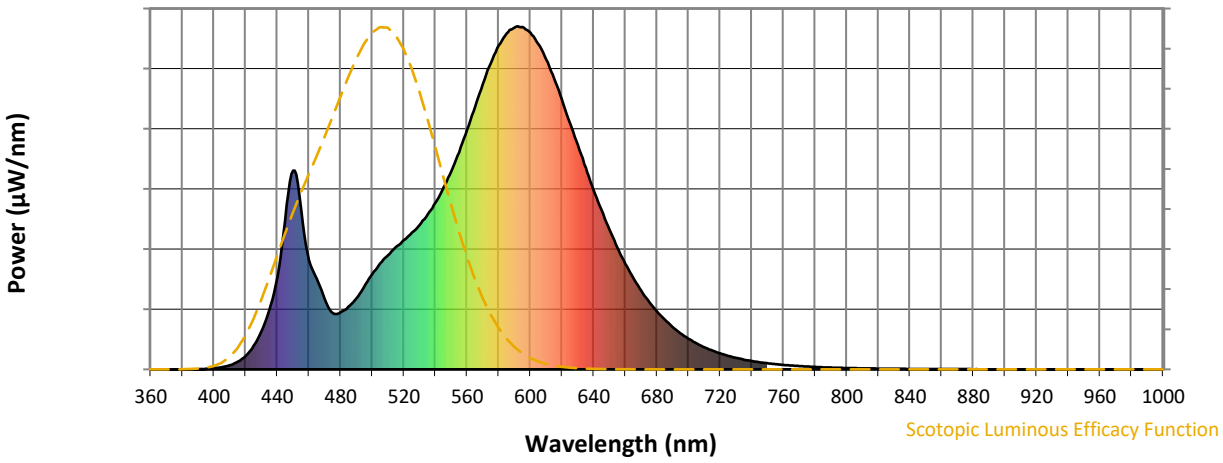


Photopic Lumens: NR

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

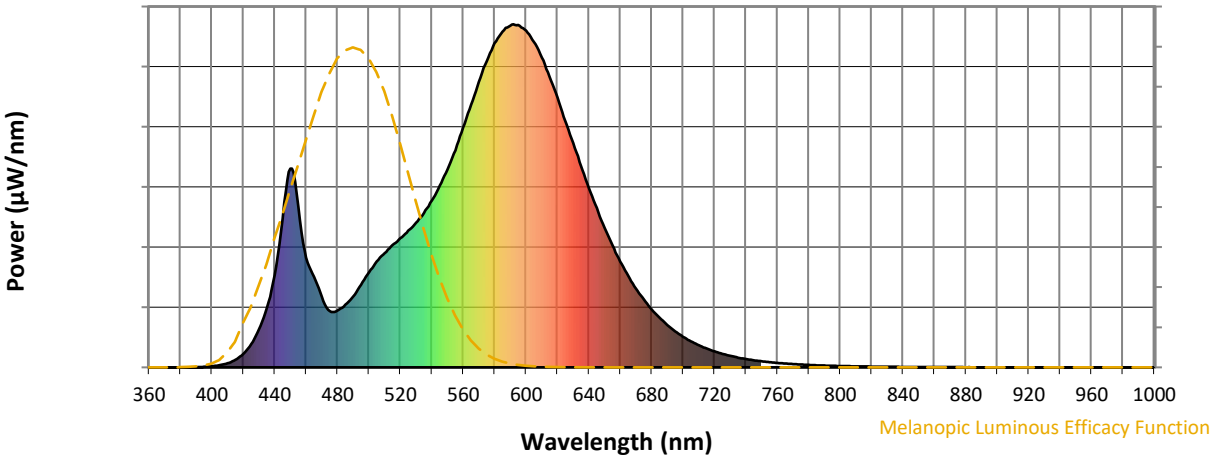


Scotopic Lumens: NR **S/P: 1.29**

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			

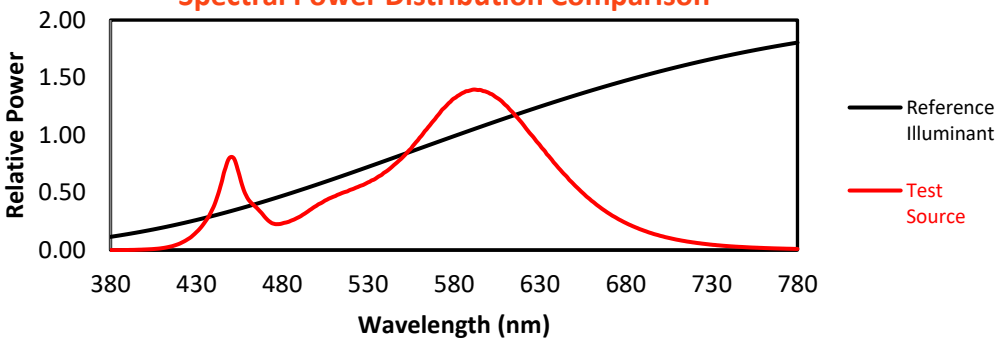
REPORT NUMBER: SP1-2501-332-4

TM-30-18

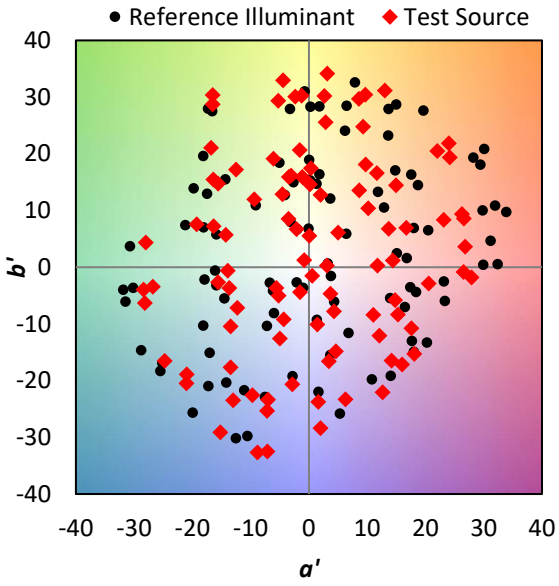
Summary

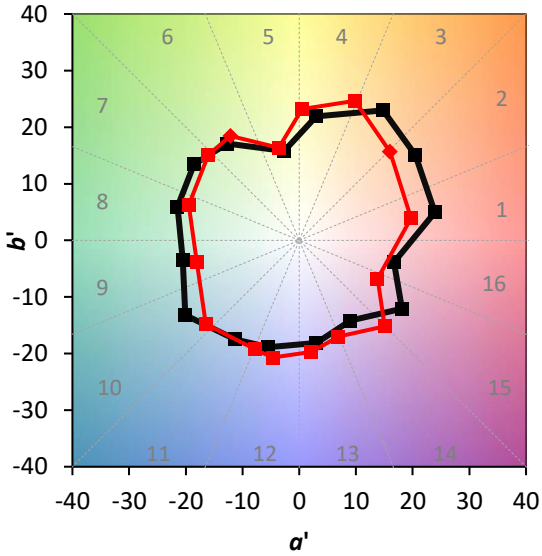
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

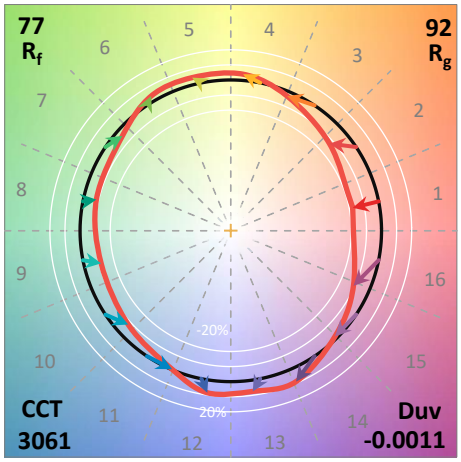
Spectral Power Distribution Comparison

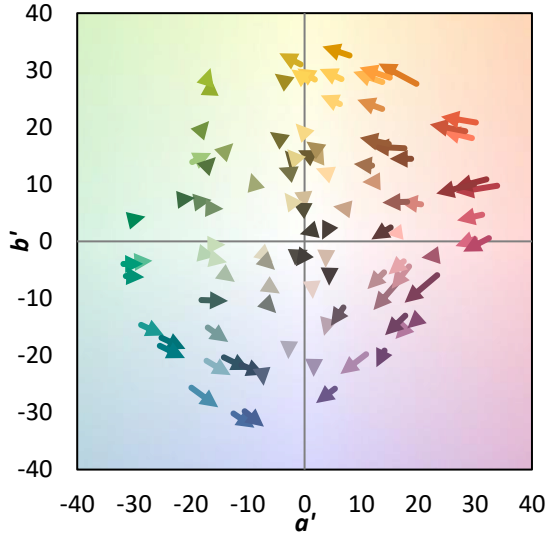


Color Vector Graphics







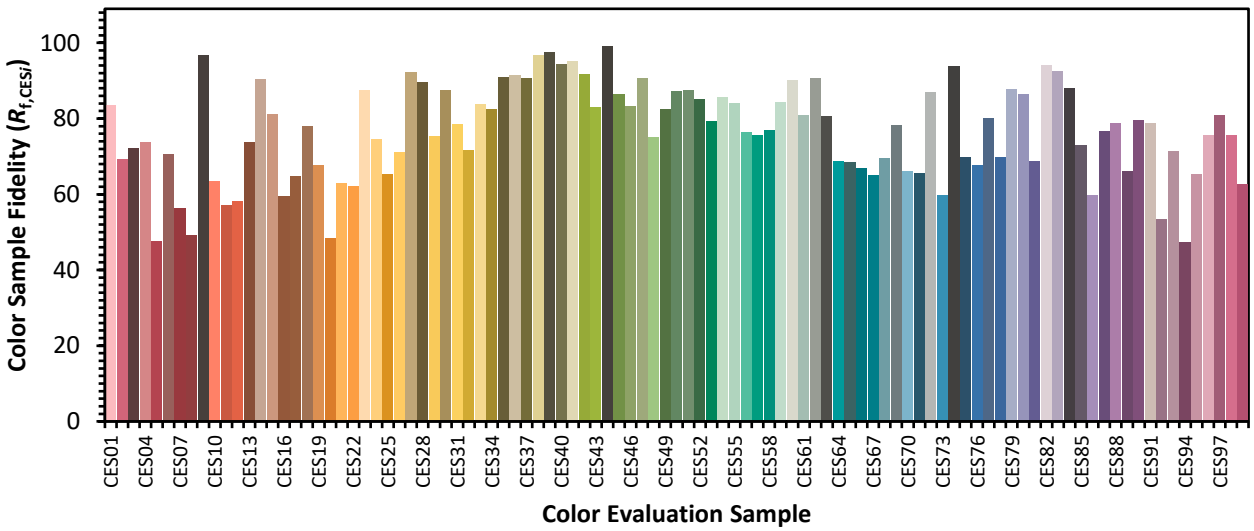


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

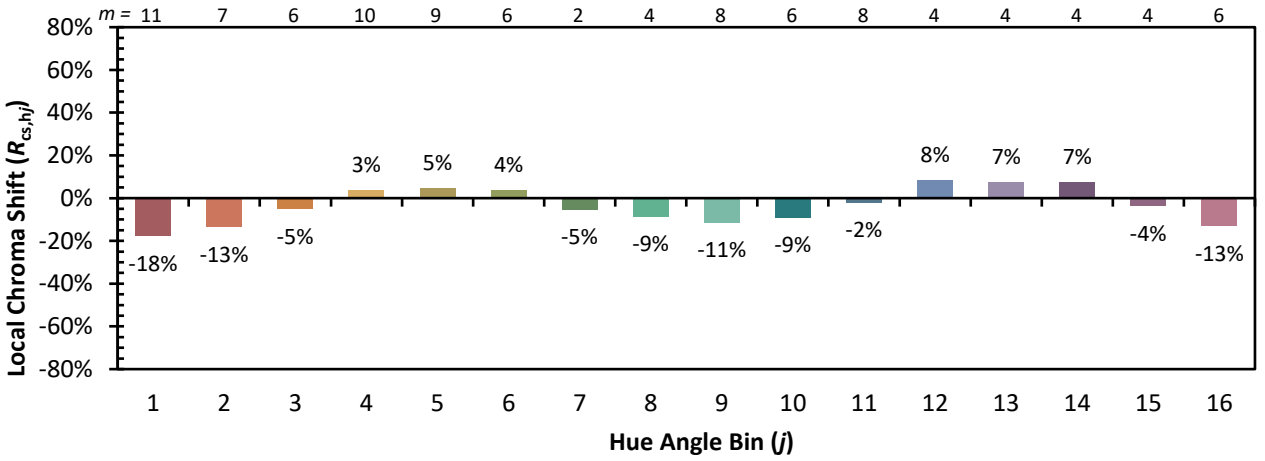
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 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	

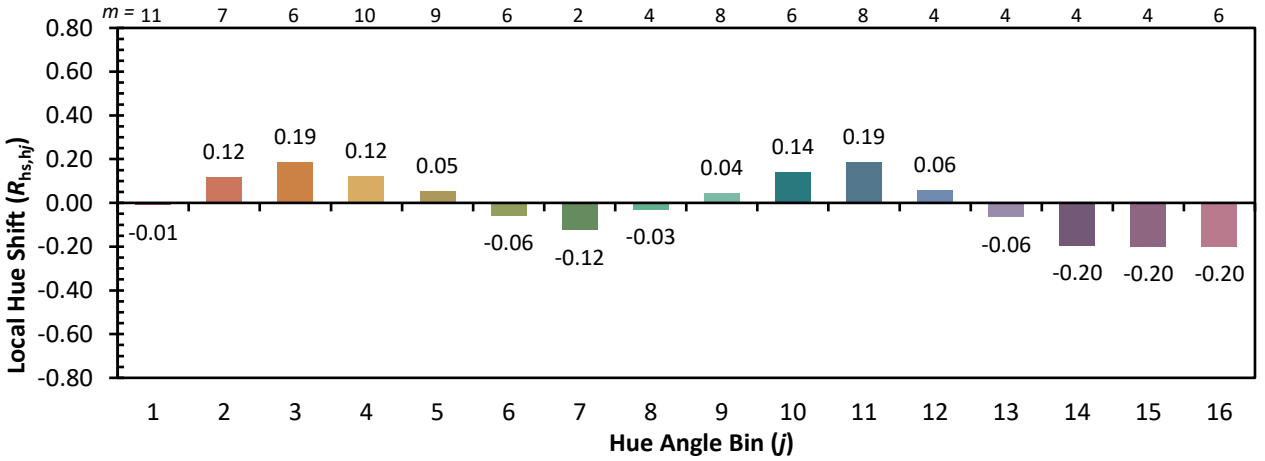


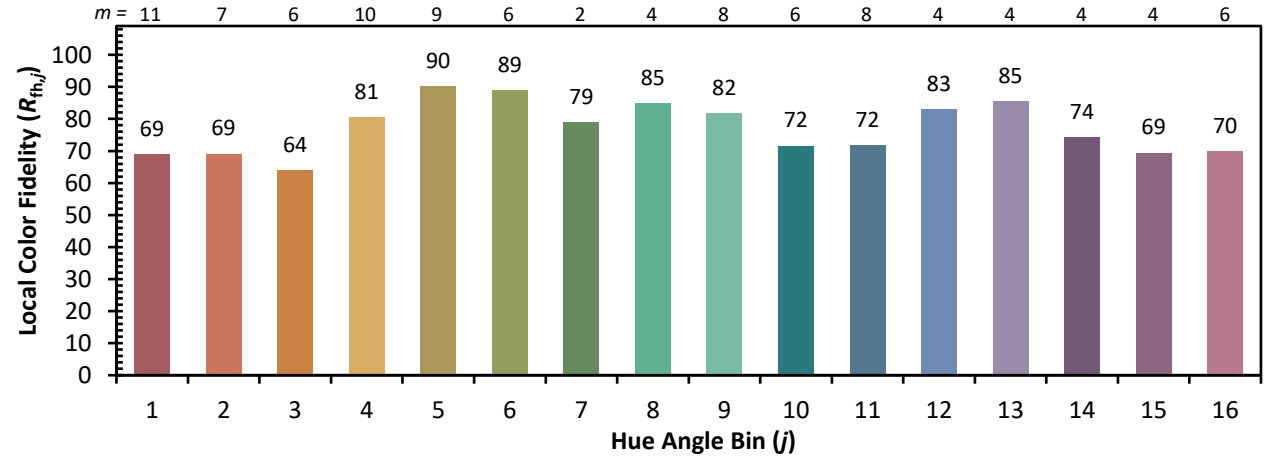
REPORT NUMBER: SP1-2501-332-4

TM-30-18

Color Rendition by Hue-Angle Bin



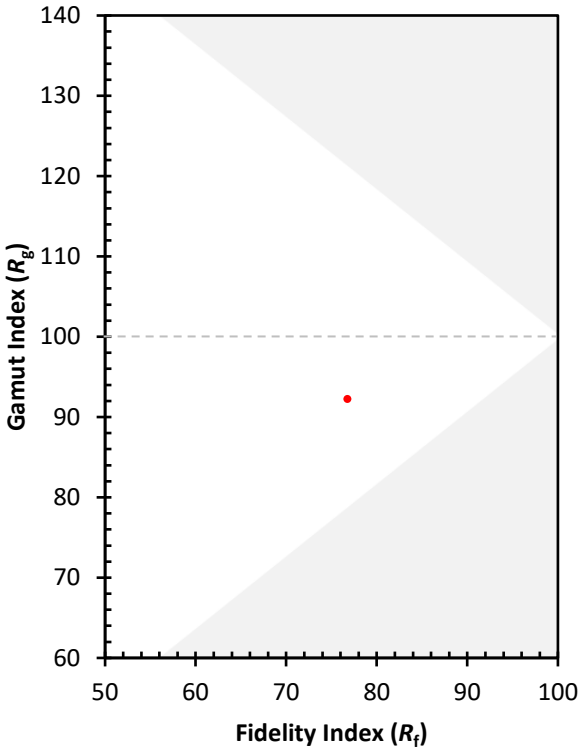


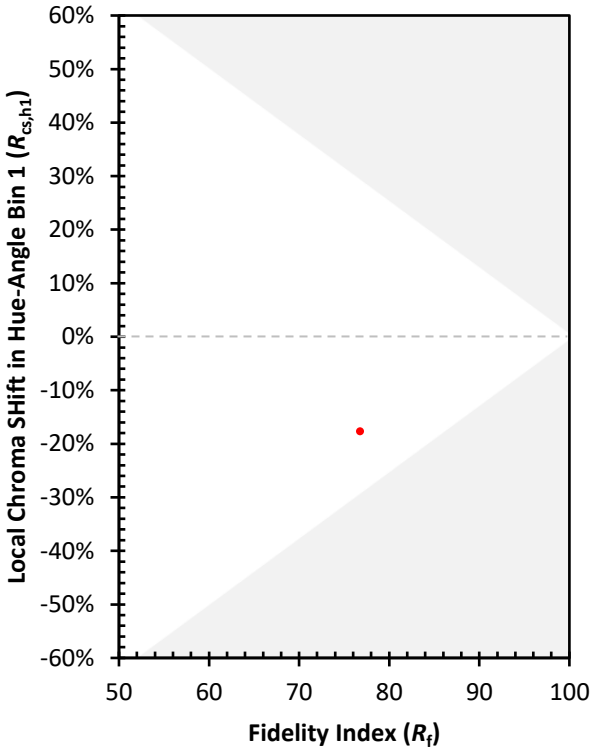


REPORT NUMBER: SP1-2501-332-4

TM-30-18

Measure Comparisons





(END OF REPORT)