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: P1045880

Luminaire Tested: **FFX-CLB-60-727-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045880
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-727-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6092.8 lumens
Efficiency:	N/A
Efficacy:	100.5 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

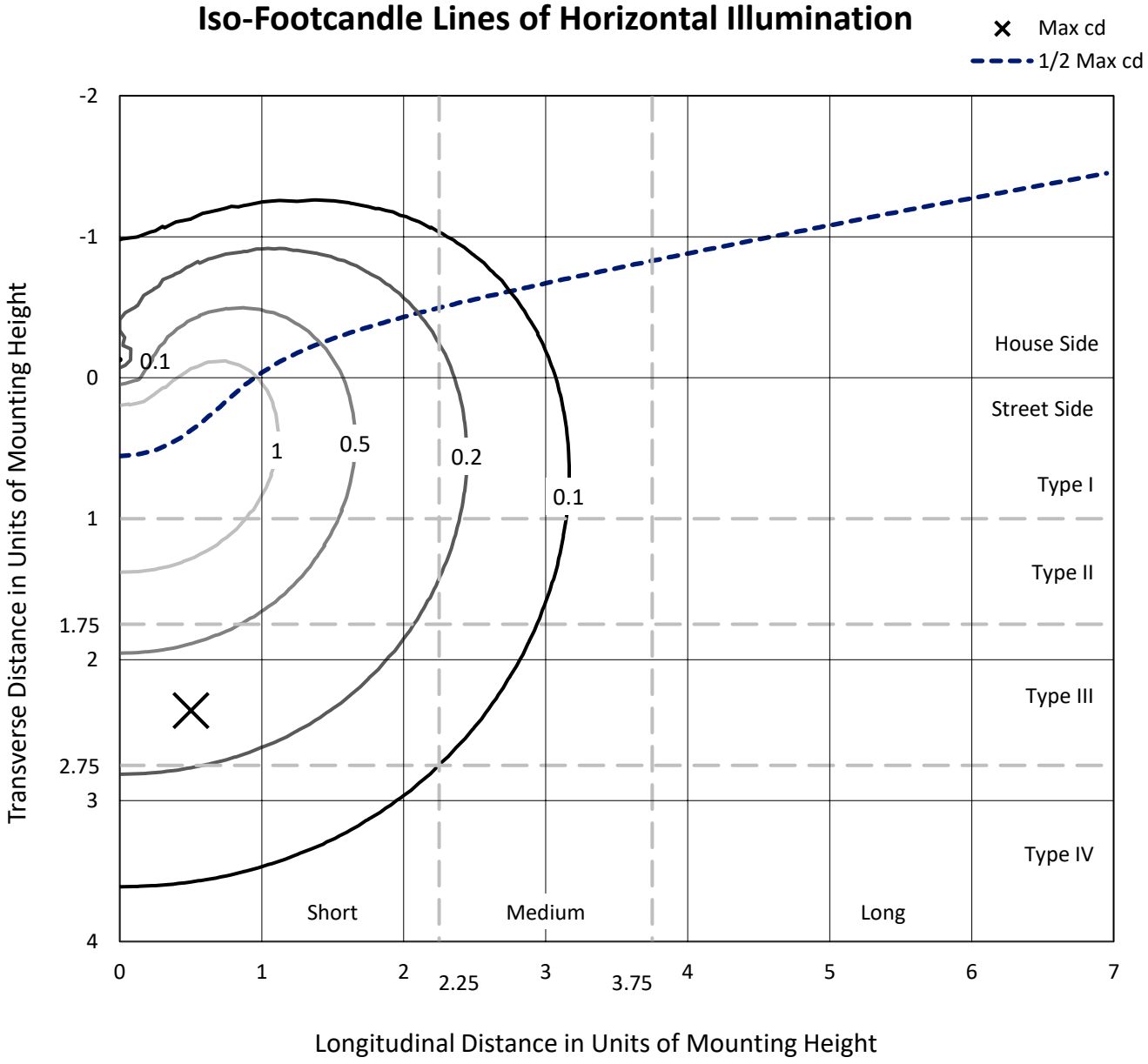


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Iso-Footcandle Lines of Horizontal Illumination



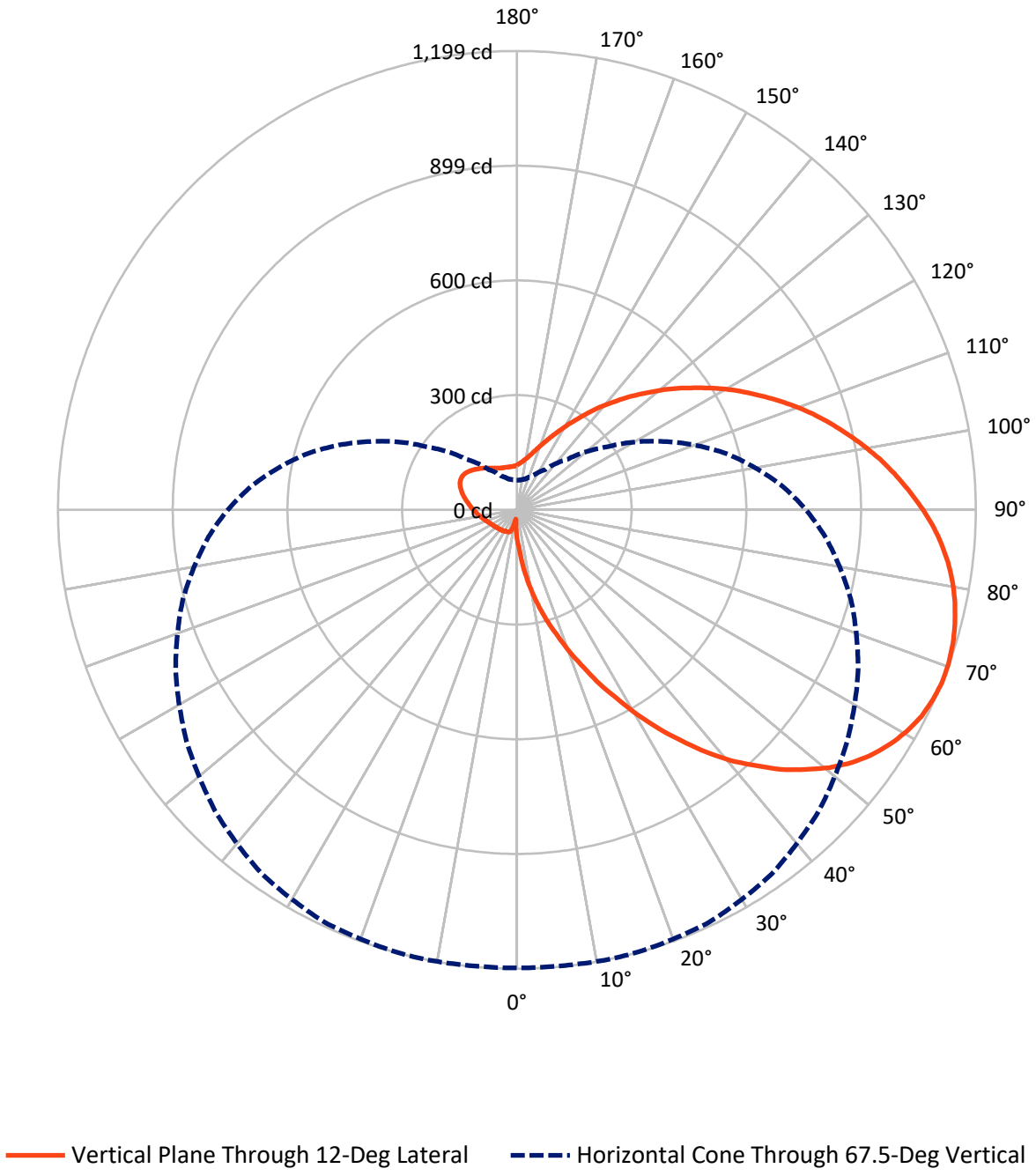
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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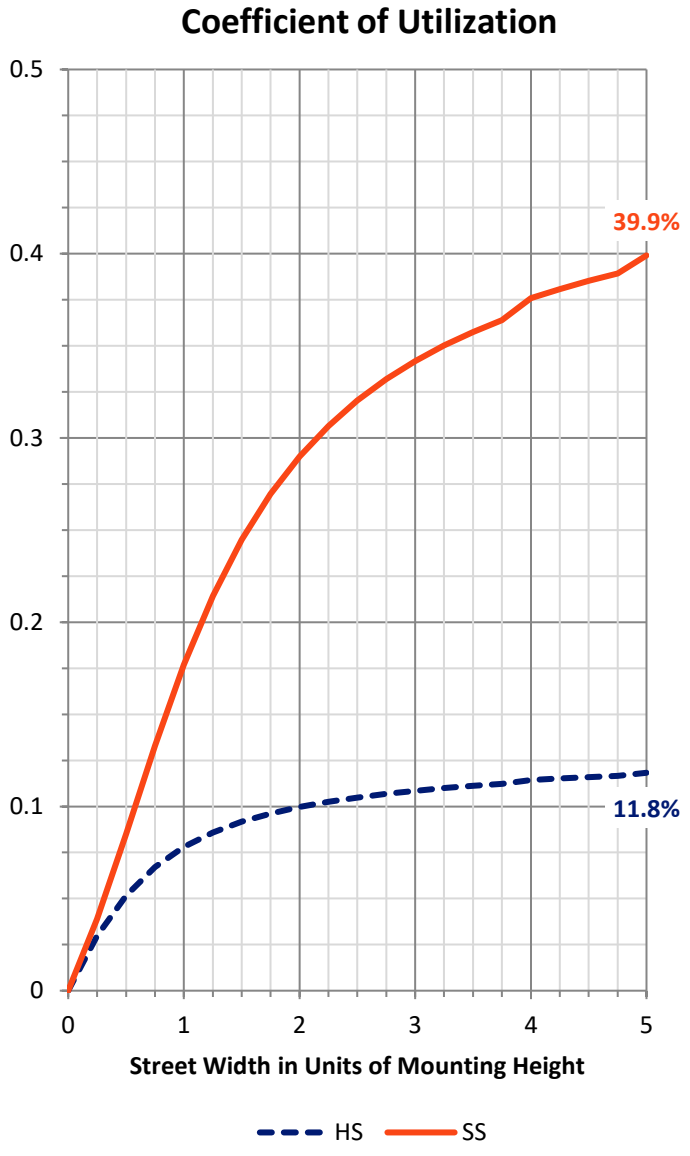
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	784.1	758.9	1543.0
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	2772.2	1777.6	4549.8
	% Fixture	45.5	29.2	74.7
Total	Lumens	3556.3	2536.5	6092.8
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.2
10°-20°	54.2	0.9
20°-30°	141.4	2.3
30°-40°	274.4	4.5
40°-50°	430.9	7.1
50°-60°	572.0	9.4
60°-70°	666.5	10.9
70°-80°	708.2	11.6
80°-90°	699.2	11.5
90°-100°	644.7	10.6
100°-110°	562.6	9.2
110°-120°	462.5	7.6
120°-130°	350.2	5.7
130°-140°	239.2	3.9
140°-150°	146.6	2.4
150°-160°	80.4	1.3
160°-170°	38.8	0.6
170°-180°	11.5	0.2
0°-90°	3556.3	58.4
0°-180°	6092.8	100.0



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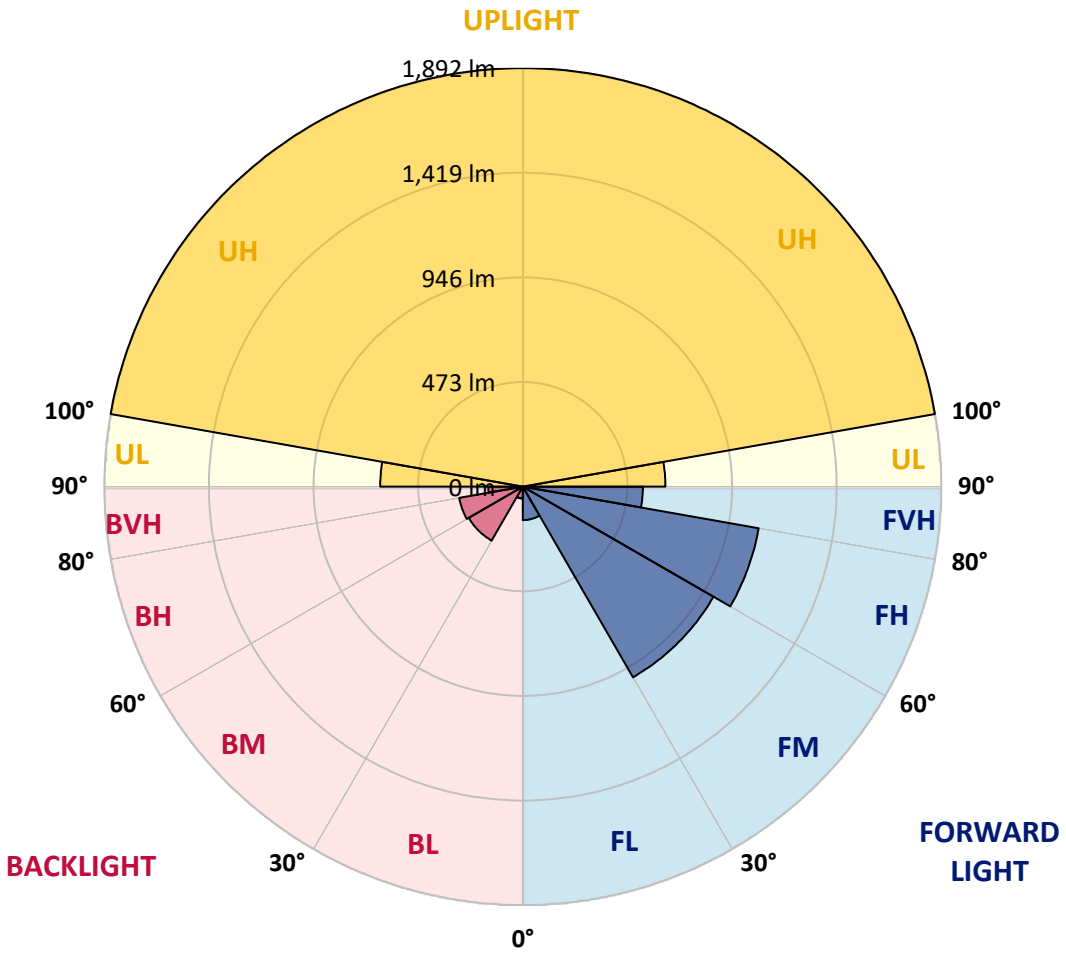
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	151.4	2.5			
FM	(30°-60°)	995.4	16.3			
FH	(60°-80°)	1082.7	17.8			G1/1800
FVH	(80°-90°)	542.7	8.9			G4/750
BL	(0°-30°)	53.7	0.9	B0/110		
BM	(30°-60°)	281.9	4.6	B1/1000		
BH	(60°-80°)	292.0	4.8	B1/500		G1/500
BVH	(80°-90°)	156.5	2.6			G2/225
UL	(90°-100°)	644.7	10.6		U4/1000	
UH	(100°-180°)	1891.8	31.1		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	77.1	77.1	*77.1*	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
2.5°	96.5	98.5	*96.5*	99.2	97.9	97.9	94.5	91.2	86.5	81.1	76.4
5°	136.7	136.1	*133.4*	136.1	133.4	130.0	124.7	116.0	107.2	99.2	89.1
7.5°	178.3	179.0	*177.0*	176.3	170.2	165.6	156.8	148.1	137.4	125.3	113.3
10°	223.2	221.9	*218.5*	219.2	212.5	203.1	193.0	183.0	170.9	156.8	141.4
12.5°	264.8	264.8	*262.1*	262.7	255.4	244.6	236.6	223.2	208.5	191.7	172.9
15°	309.0	306.3	*305.0*	305.0	297.6	288.2	279.5	264.8	247.3	228.6	207.1
17.5°	349.9	349.2	*347.9*	348.5	341.8	333.8	319.7	305.0	284.2	261.4	239.3
20°	402.2	399.5	*397.5*	394.1	390.1	379.4	366.0	346.5	325.8	301.0	271.5
22.5°	449.8	453.1	*447.7*	445.1	439.7	431.0	411.5	392.8	368.0	339.2	307.0
25°	504.7	507.4	*505.4*	502.0	494.7	482.6	464.5	443.7	414.2	381.4	343.2
27.5°	562.4	564.4	*559.0*	560.3	547.6	536.2	518.1	492.6	464.5	425.6	385.4
30°	619.3	623.4	*621.3*	616.6	605.9	595.9	574.4	547.6	515.4	472.5	426.3
32.5°	686.4	681.7	*682.3*	677.0	670.3	654.2	635.4	605.3	567.7	522.1	469.2
35°	748.7	746.7	*741.3*	744.0	732.6	717.9	694.4	662.2	621.3	571.1	512.8
37.5°	804.3	806.3	*803.0*	801.0	793.6	776.8	749.4	716.5	669.6	616.6	553.0
40°	861.3	862.6	*862.0*	862.0	851.9	833.1	805.0	768.1	719.9	662.9	593.9
42.5°	915.6	916.9	*913.6*	914.2	906.2	886.8	856.6	817.7	764.1	704.5	629.4
45°	967.9	967.9	*967.9*	967.2	955.8	937.7	906.9	862.6	809.0	741.3	662.2
47.5°	1016.1	1014.8	*1014.1*	1014.1	1006.7	985.3	952.5	904.2	845.9	774.8	694.4
50°	1059.0	1059.7	*1059.0*	1057.7	1046.3	1028.9	992.0	941.7	880.1	807.0	721.2
52.5°	1095.9	1096.6	*1097.2*	1093.9	1086.5	1065.7	1024.8	971.2	908.9	832.5	743.3
55°	1125.4	1126.7	*1128.1*	1126.7	1119.4	1094.6	1053.7	999.4	932.3	853.9	762.8
57.5°	1152.9	1152.2	*1152.9*	1151.5	1143.5	1119.4	1077.1	1018.8	951.1	871.4	777.5
60°	1171.6	1172.3	*1172.3*	1172.3	1162.9	1138.1	1093.2	1033.6	964.5	884.8	790.2
62.5°	1184.4	1185.0	*1187.0*	1185.7	1177.0	1150.9	1104.6	1044.3	974.6	893.5	799.0
65°	1193.1	1193.8	*1195.1*	1193.8	1185.7	1158.9	1112.0	1051.0	981.3	900.2	805.0
67.5°	*1197.1*	*1197.1*	*1199.1*	*1198.4*	*1189.1*	*1161.6*	*1114.7*	*1053.7*	*984.0*	*903.5*	*809.0*
70°	1195.1	1195.8	*1197.1*	1196.4	1187.0	1159.6	1112.6	1052.3	983.3	903.5	809.7
72.5°	1190.4	1190.4	*1191.7*	1190.4	1181.7	1154.2	1108.0	1048.3	979.9	902.2	809.0
75°	1181.0	1181.7	*1182.4*	1181.7	1172.3	1145.5	1099.9	1040.9	974.6	897.5	806.3
77.5°	1169.6	1170.3	*1170.3*	1170.3	1160.2	1133.4	1089.2	1031.5	967.2	892.1	801.6
80°	1152.9	1153.5	*1154.9*	1153.5	1143.5	1119.4	1075.1	1020.2	957.8	883.4	795.6
82.5°	1134.1	1133.4	*1135.4*	1134.8	1124.7	1100.6	1057.0	1004.7	943.7	873.4	786.9
85°	1110.6	1110.6	*1112.0*	1110.6	1101.9	1076.5	1035.6	986.0	927.7	858.6	776.2
87.5°	1084.5	1084.5	*1085.8*	1083.2	1073.1	1051.0	1012.1	963.8	910.2	843.9	764.1
90°	1053.7	1055.0	*1055.0*	1053.0	1042.9	1021.5	986.0	939.7	887.4	825.8	750.0
92.5°	1024.2	1024.2	*1022.8*	1022.8	1012.1	990.7	957.8	915.6	866.7	807.7	734.6
95°	992.7	992.7	*990.7*	989.3	978.6	960.5	929.0	890.1	843.2	788.9	719.2
97.5°	959.2	958.5	*957.1*	955.8	945.1	927.7	899.5	862.0	819.1	767.5	702.4
100°	925.0	925.6	*921.0*	920.3	909.6	894.8	868.0	833.1	793.6	745.3	684.3
102.5°	887.4	888.8	*884.8*	884.1	873.4	857.3	835.8	804.3	768.8	724.6	666.2
105°	853.9	850.6	*848.6*	847.2	837.8	823.1	800.3	775.5	742.0	700.4	646.1
107.5°	815.7	816.4	*812.4*	809.7	800.3	788.2	768.1	745.3	715.8	676.3	626.7
110°	777.5	776.2	*774.2*	772.8	762.1	751.4	733.9	715.2	686.4	652.2	605.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	738.0	738.6	*735.3*	733.3	725.9	714.5	701.8	683.7	658.9	626.7	583.1
115°	701.1	699.8	*697.1*	695.7	687.7	679.0	666.2	652.8	630.7	599.9	560.3
117.5°	663.6	660.9	*660.2*	658.2	652.2	643.5	633.4	622.0	600.6	573.8	536.2
120°	624.7	624.7	*623.4*	622.0	614.0	606.6	600.6	588.5	570.4	544.9	512.8
122.5°	588.5	587.8	*585.1*	583.1	579.1	572.4	565.0	555.7	539.6	516.8	485.9
125°	549.0	550.3	*548.3*	547.6	540.9	537.6	530.9	524.8	508.1	487.3	459.8
127.5°	516.1	514.1	*514.1*	510.7	507.4	504.0	498.7	490.6	479.2	457.8	432.3
130°	481.3	479.9	*477.9*	477.9	473.9	469.2	465.8	459.1	446.4	429.0	404.8
132.5°	446.4	445.1	*443.7*	441.7	439.0	438.4	435.0	427.6	415.6	400.2	379.4
135°	413.6	412.9	*412.2*	412.2	408.2	406.2	402.2	396.1	388.1	374.0	353.9
137.5°	382.7	380.7	*379.4*	379.4	378.0	374.7	371.3	366.6	357.9	346.5	328.4
140°	350.6	351.9	*351.9*	351.2	348.5	346.5	342.5	338.5	329.8	320.4	305.0
142.5°	323.7	323.1	*321.7*	321.1	319.7	317.0	315.0	310.3	305.0	294.9	281.5
145°	294.9	294.9	*294.2*	294.9	292.2	291.6	288.9	284.9	278.8	270.1	258.7
147.5°	269.4	269.4	*268.8*	269.4	267.4	265.4	263.4	260.7	255.4	248.7	238.6
150°	246.0	246.7	*245.3*	245.3	244.6	242.6	241.3	237.3	233.3	227.9	219.2
152.5°	224.5	225.2	*224.5*	223.9	223.2	221.9	219.8	217.2	213.1	208.5	201.1
155°	206.4	205.8	*205.8*	205.8	205.1	203.1	203.1	199.1	195.0	191.7	184.3
157.5°	189.0	189.0	*189.0*	189.0	187.7	187.0	185.7	182.3	180.3	175.6	170.2
160°	174.9	174.3	*174.3*	174.3	172.9	172.3	170.2	168.9	166.2	162.2	158.2
162.5°	160.9	161.5	*161.5*	161.5	160.2	159.5	158.2	156.8	154.8	150.8	148.1
165°	150.1	150.1	*150.1*	149.5	148.8	148.8	146.8	146.1	144.1	141.4	139.4
167.5°	141.4	141.4	*140.8*	141.4	140.1	138.7	138.1	136.7	135.4	134.1	132.0
170°	134.1	134.1	*134.1*	134.1	133.4	132.7	131.4	130.7	129.4	128.0	126.0
172.5°	128.0	128.0	*128.0*	128.0	127.4	126.7	125.3	124.7	124.0	122.7	121.3
175°	123.3	123.3	*123.3*	123.3	122.7	122.0	120.6	120.6	120.0	119.3	118.0
177.5°	120.0	120.0	*119.3*	119.3	118.6	118.0	118.0	117.3	117.3	116.6	116.0
180°	116.0	116.0	*116.0*	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
2.5°	73.7	71.0	66.4	62.3	57.6	54.3	50.9	50.3	50.3	51.6	51.6
5°	85.1	79.1	69.7	61.0	50.9	43.6	36.9	30.8	26.8	24.8	24.8
7.5°	106.6	101.9	87.8	75.7	63.7	52.3	41.6	32.2	25.5	20.8	20.1
10°	134.1	126.7	109.9	94.5	78.4	64.3	51.6	40.2	32.2	28.2	28.2
12.5°	163.5	153.5	133.4	114.6	95.8	77.8	63.0	51.6	43.6	39.5	38.2
15°	195.0	183.7	159.5	135.4	112.6	93.2	76.4	62.3	54.3	50.3	49.6
17.5°	224.5	211.8	184.3	155.5	129.4	105.9	85.8	71.0	61.0	56.3	55.6
20°	256.7	240.0	207.8	174.3	143.4	115.3	92.5	75.1	63.0	57.6	57.0
22.5°	289.6	270.1	231.9	193.0	156.2	124.0	97.2	77.1	63.7	57.6	57.0
25°	324.4	303.0	258.1	213.1	170.2	132.7	101.9	79.1	65.0	57.6	57.0
27.5°	361.3	337.1	285.5	234.6	184.3	141.4	106.6	81.8	65.7	58.3	57.0
30°	400.8	373.3	313.7	255.4	197.7	149.5	110.6	83.1	66.4	58.3	57.6
32.5°	440.4	406.9	344.5	275.5	211.8	156.8	114.6	85.1	67.0	59.0	58.3
35°	478.6	445.7	372.7	296.3	225.2	164.2	118.0	86.5	68.4	59.7	58.3
37.5°	517.4	481.9	399.5	315.7	237.3	170.2	120.6	87.8	69.0	60.3	59.0
40°	554.3	512.8	425.6	334.5	247.3	175.6	122.7	88.5	69.7	61.0	59.7
42.5°	589.2	544.9	450.4	350.6	257.4	179.6	124.7	89.8	70.4	61.7	61.0
45°	618.7	573.1	471.9	366.6	264.8	183.0	126.0	90.5	71.0	62.3	61.7
47.5°	647.5	598.6	492.0	379.4	272.1	186.3	126.7	91.2	71.7	63.7	63.0
50°	673.0	621.3	510.1	390.8	277.5	187.7	127.4	91.8	73.1	65.0	64.3
52.5°	694.4	640.8	524.2	400.2	281.5	189.0	127.4	91.8	73.7	66.4	65.7
55°	711.8	657.5	536.9	406.9	284.2	189.7	127.4	92.5	75.1	67.7	67.0
57.5°	726.6	670.3	546.9	412.9	286.9	189.7	127.4	93.2	76.4	69.0	68.4
60°	737.3	681.0	554.3	416.9	287.5	189.0	127.4	93.8	77.8	71.0	70.4
62.5°	746.0	688.4	560.3	419.6	287.5	187.7	127.4	94.5	79.1	73.1	72.4
65°	752.0	693.7	564.4	420.9	286.9	187.0	127.4	95.8	81.1	75.1	74.4
67.5°	*755.4*	*697.8*	*567.0*	*422.3*	*286.2*	*187.0*	*128.0*	*97.9*	*83.1*	*77.8*	*77.1*
70°	756.7	698.4	567.7	421.6	285.5	185.7	128.7	99.2	85.8	80.4	79.8
72.5°	756.7	699.1	567.7	421.6	284.2	186.3	129.4	101.2	88.5	83.1	82.4
75°	754.7	697.1	567.0	420.3	283.5	185.7	131.4	103.9	91.2	86.5	85.8
77.5°	750.7	694.4	565.0	418.2	282.9	186.3	132.7	106.6	94.5	89.8	89.8
80°	746.0	690.4	562.4	416.2	282.2	187.7	134.7	109.9	97.9	93.8	93.2
82.5°	738.6	684.3	557.7	413.6	280.8	188.3	137.4	113.3	101.9	97.2	97.2
85°	728.6	675.6	551.6	410.2	279.5	189.7	140.1	116.0	105.9	101.2	101.2
87.5°	717.9	666.2	544.3	406.2	278.8	191.0	143.4	120.0	109.3	105.2	104.6
90°	705.1	654.9	536.9	401.5	278.2	193.0	146.1	124.0	113.9	109.9	109.3
92.5°	691.7	643.5	528.8	398.1	277.5	195.0	150.1	128.7	118.6	114.6	113.9
95°	678.3	631.4	520.8	393.4	277.5	197.7	154.2	133.4	123.3	119.3	118.6
97.5°	662.9	618.0	511.4	389.4	277.5	201.1	158.9	138.1	128.0	124.0	124.0
100°	646.8	604.6	502.0	385.4	278.2	204.4	163.5	143.4	133.4	129.4	129.4
102.5°	630.7	589.8	493.3	382.1	279.5	209.1	169.6	149.5	139.4	135.4	134.7
105°	613.3	575.1	483.3	377.4	280.8	213.1	174.9	154.8	144.8	140.8	140.8
107.5°	595.9	559.7	473.2	374.0	282.2	217.2	181.0	160.9	150.8	146.1	146.1
110°	576.4	542.9	462.5	370.0	283.5	221.9	185.7	166.2	155.5	151.5	150.8

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

Scaled Data Report

REPORT NUMBER: P1045880
CATALOG NUMBER: FFX-CLB-60-727-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	556.3	526.2	451.1	364.6	284.2	225.9	191.0	171.6	160.9	156.2	155.5
115°	534.9	507.4	438.4	359.3	284.2	229.2	195.0	175.6	164.9	160.2	159.5
117.5°	513.4	487.3	424.3	351.9	283.5	231.2	198.4	178.3	167.6	162.9	162.2
120°	490.6	467.2	410.2	344.5	280.8	231.9	199.7	180.3	168.9	164.2	163.5
122.5°	467.2	445.7	393.4	334.5	276.8	231.2	199.7	180.3	168.9	163.5	162.9
125°	441.7	422.9	376.0	322.4	270.8	228.6	198.4	179.0	167.6	162.2	160.9
127.5°	416.9	400.2	357.9	310.3	263.4	224.5	195.7	176.3	164.9	159.5	158.9
130°	392.8	376.0	339.2	296.9	254.7	219.2	191.0	172.3	161.5	155.5	154.8
132.5°	367.3	351.9	320.4	282.9	244.6	212.5	186.3	168.2	156.8	152.2	150.8
135°	341.8	329.8	301.0	268.1	234.6	205.1	181.0	163.5	152.8	147.5	147.5
137.5°	319.0	307.0	281.5	253.4	223.9	196.4	174.3	158.2	148.1	143.4	142.8
140°	295.6	286.2	263.4	238.6	212.5	188.3	168.9	153.5	144.1	139.4	138.7
142.5°	273.5	264.1	246.0	223.2	201.1	179.6	162.2	148.1	139.4	135.4	134.7
145°	251.4	244.6	227.2	209.1	189.7	170.9	154.8	142.8	135.4	131.4	131.4
147.5°	231.9	225.9	210.5	195.0	178.3	162.9	148.8	138.1	131.4	128.0	127.4
150°	213.1	207.8	195.0	182.3	166.9	154.2	142.1	133.4	127.4	124.7	124.0
152.5°	195.7	191.7	181.0	170.2	157.5	146.1	136.7	129.4	124.0	121.3	121.3
155°	181.0	177.6	168.2	158.9	148.8	139.4	131.4	125.3	121.3	119.3	118.6
157.5°	168.2	164.2	156.8	149.5	141.4	133.4	127.4	122.0	119.3	117.3	117.3
160°	156.2	152.8	146.8	141.4	134.7	128.7	123.3	120.0	117.3	116.0	116.0
162.5°	146.1	143.4	138.7	134.1	129.4	124.7	120.6	118.0	116.0	114.6	114.6
165°	137.4	136.1	132.0	128.7	124.7	121.3	118.6	116.6	115.3	114.6	114.6
167.5°	130.7	129.4	126.7	124.0	121.3	118.6	116.6	115.3	114.6	113.9	113.9
170°	125.3	124.0	122.7	120.6	118.6	116.6	115.3	114.6	113.9	113.9	113.9
172.5°	121.3	120.0	119.3	118.0	116.6	115.3	114.6	113.9	113.9	113.9	113.9
175°	118.0	117.3	116.6	116.0	115.3	114.6	113.9	113.9	113.9	113.9	113.9
177.5°	116.0	115.3	115.3	114.6	114.6	113.9	113.9	114.6	114.6	114.6	115.3
180°	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

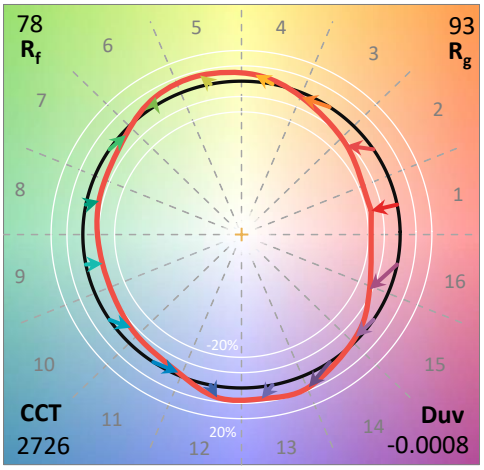
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

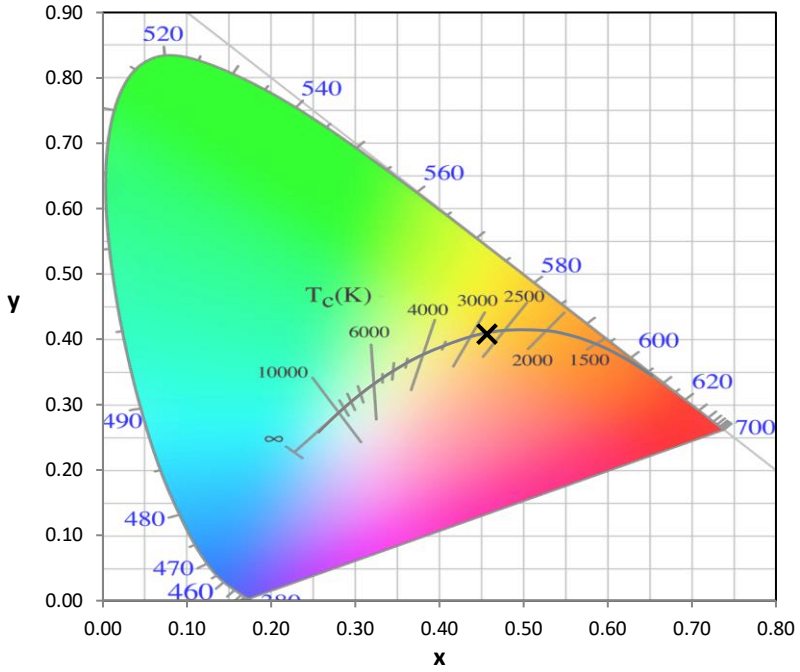
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

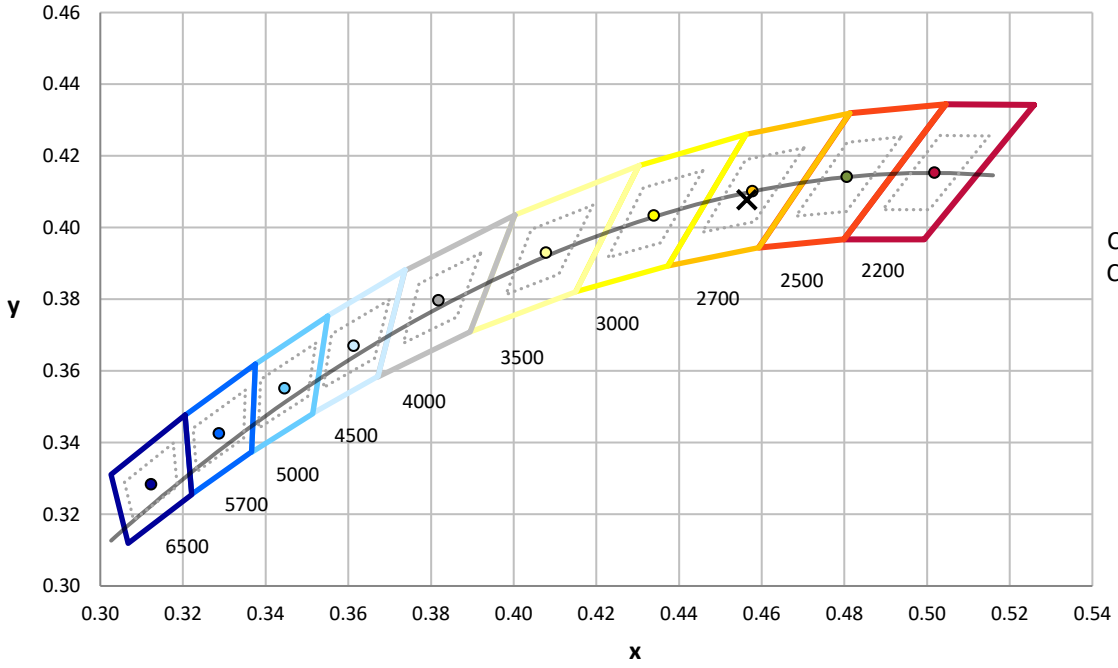
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

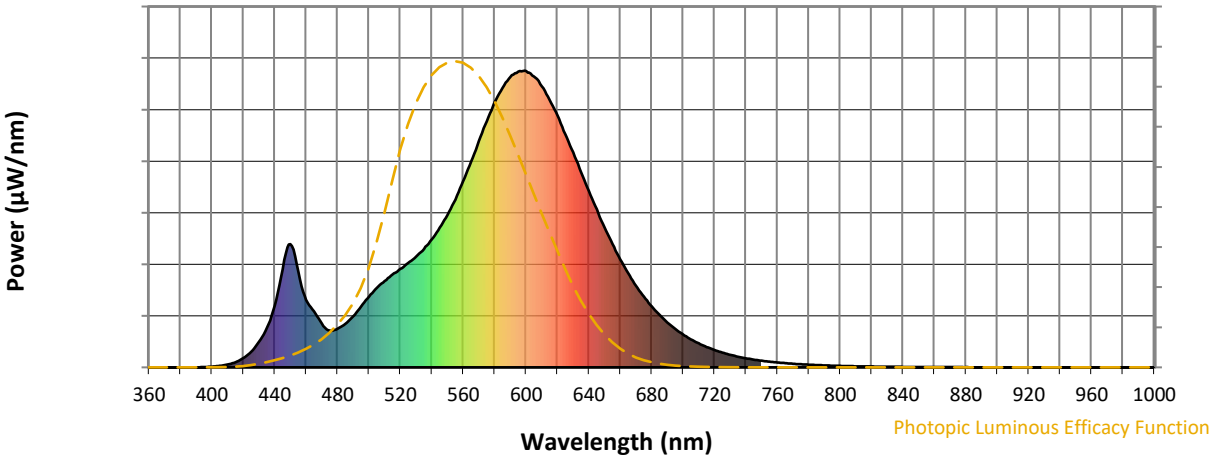


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

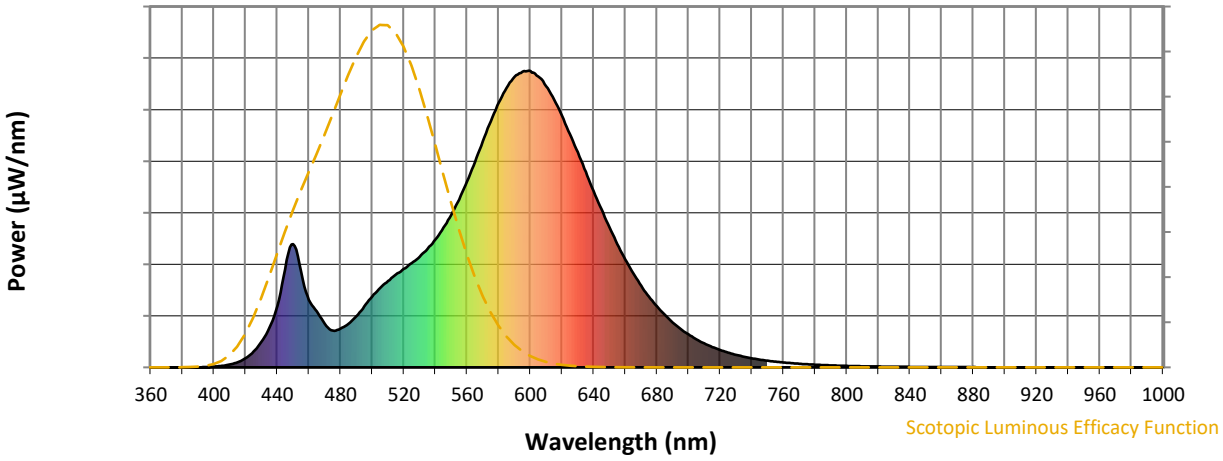


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

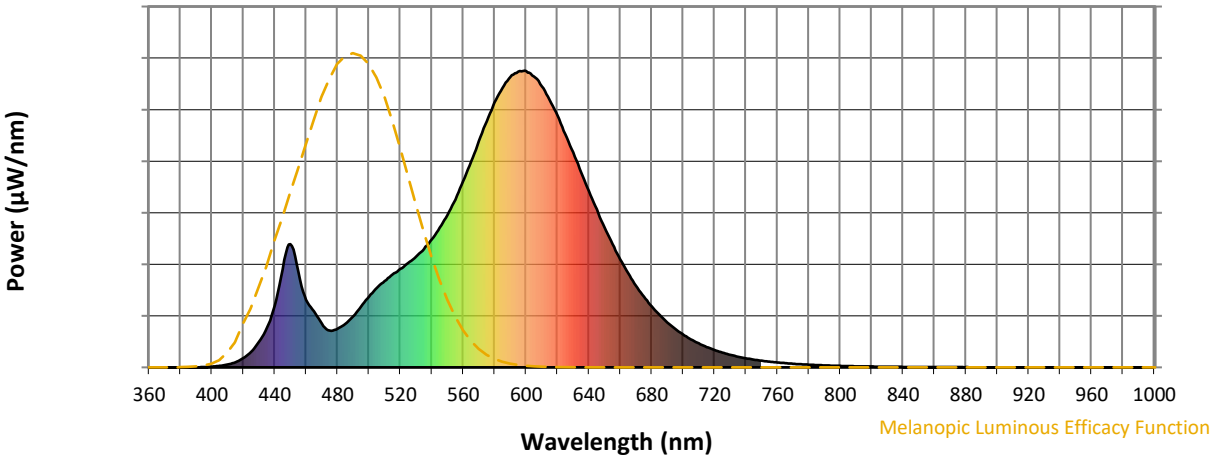


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

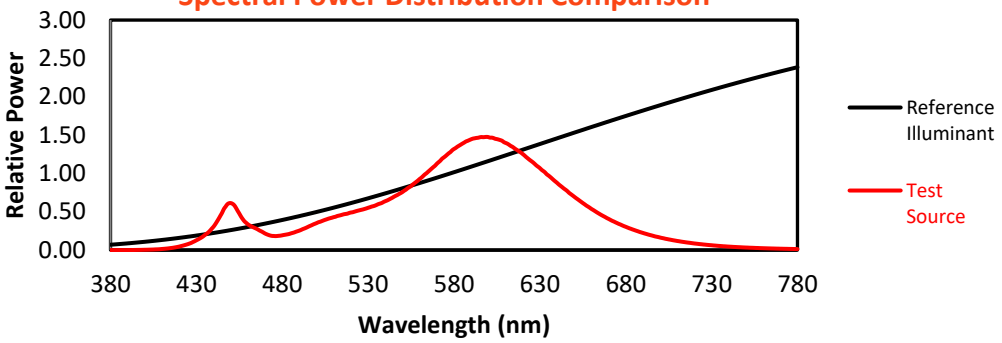
REPORT NUMBER: SP1-2501-332-3

TM-30-18

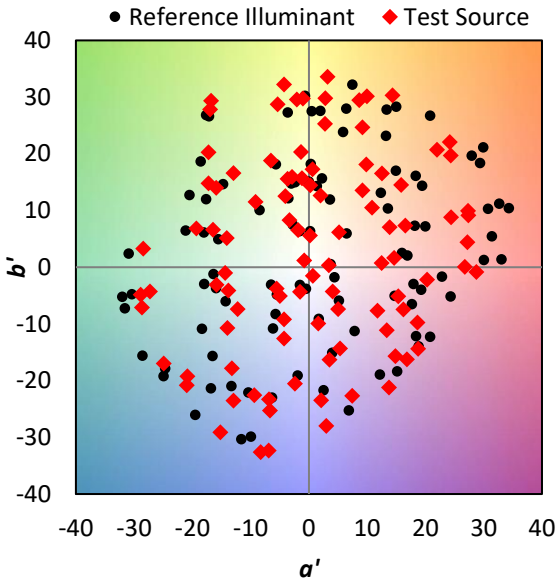
Summary

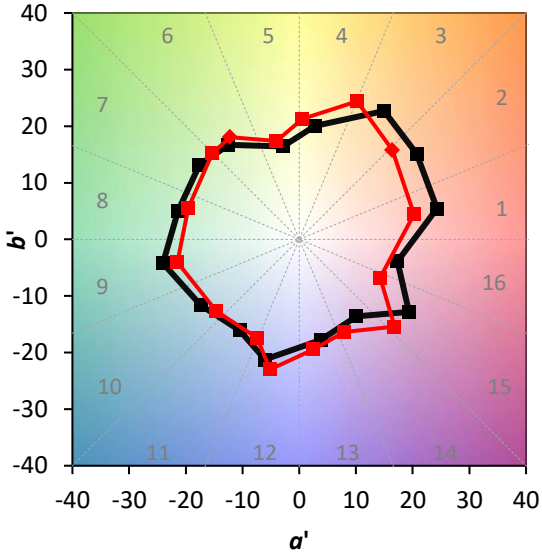
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

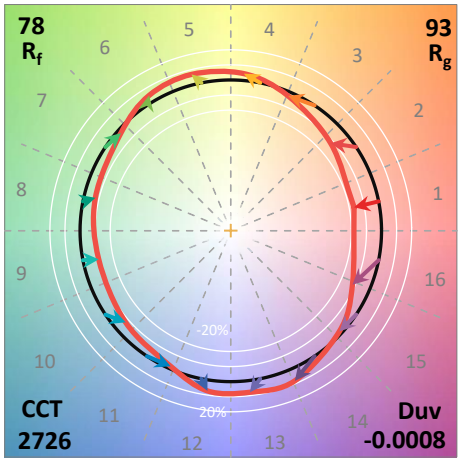
Spectral Power Distribution Comparison

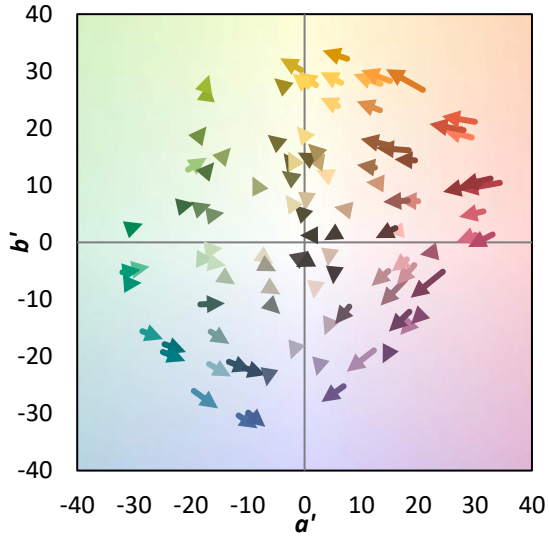


Color Vector Graphics







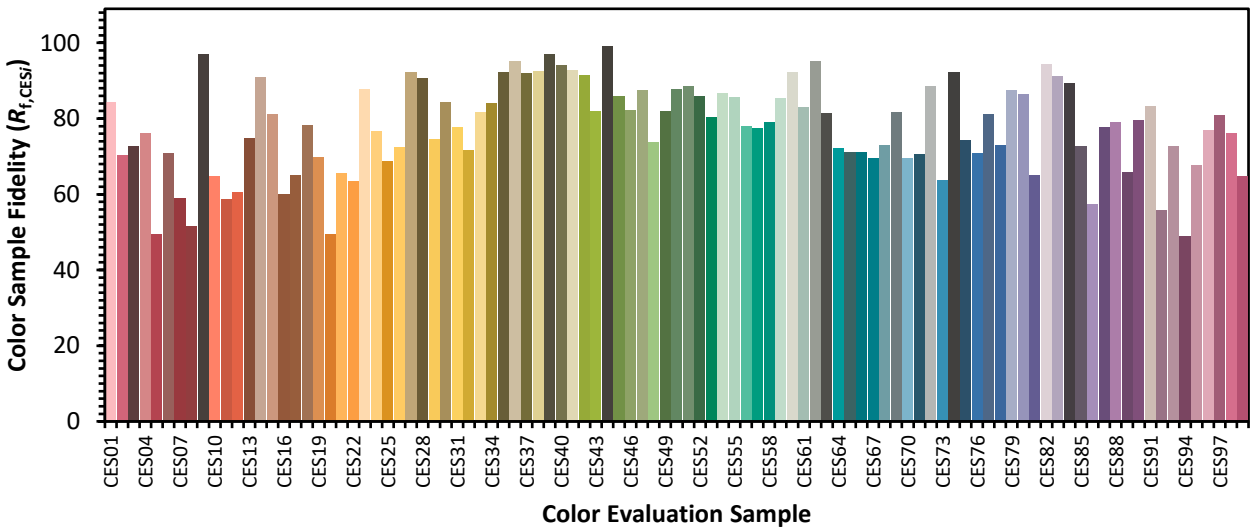


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

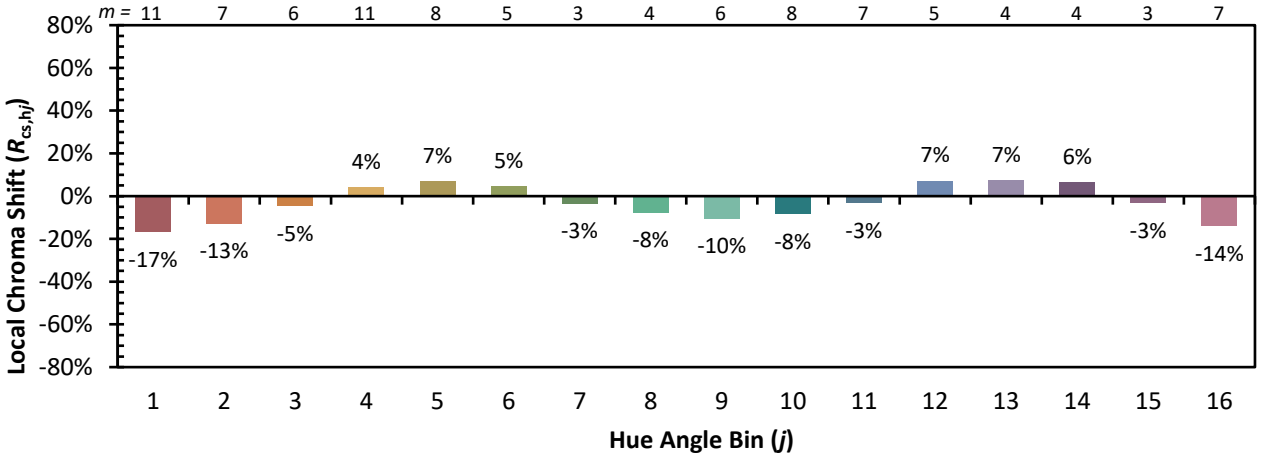
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

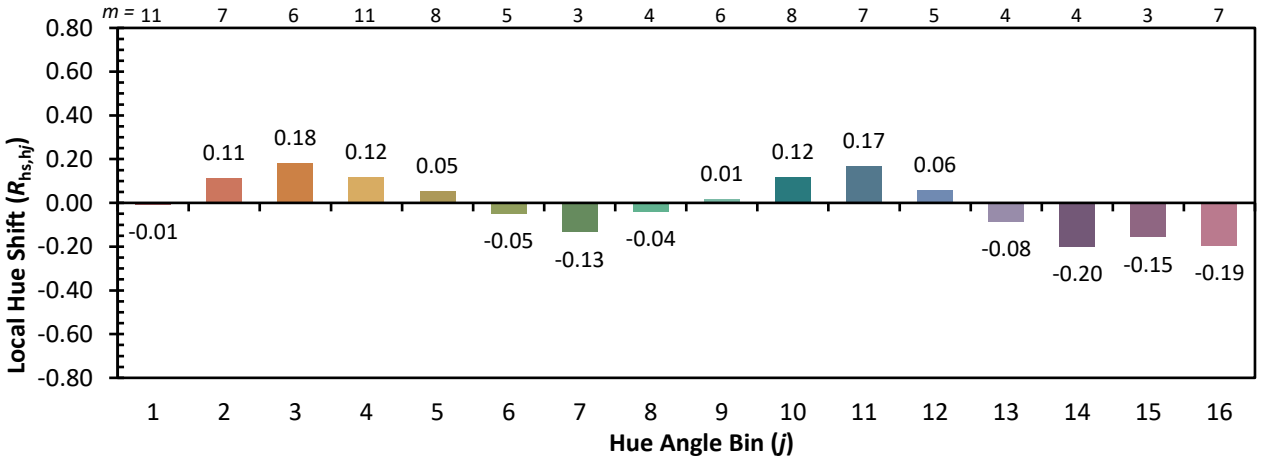


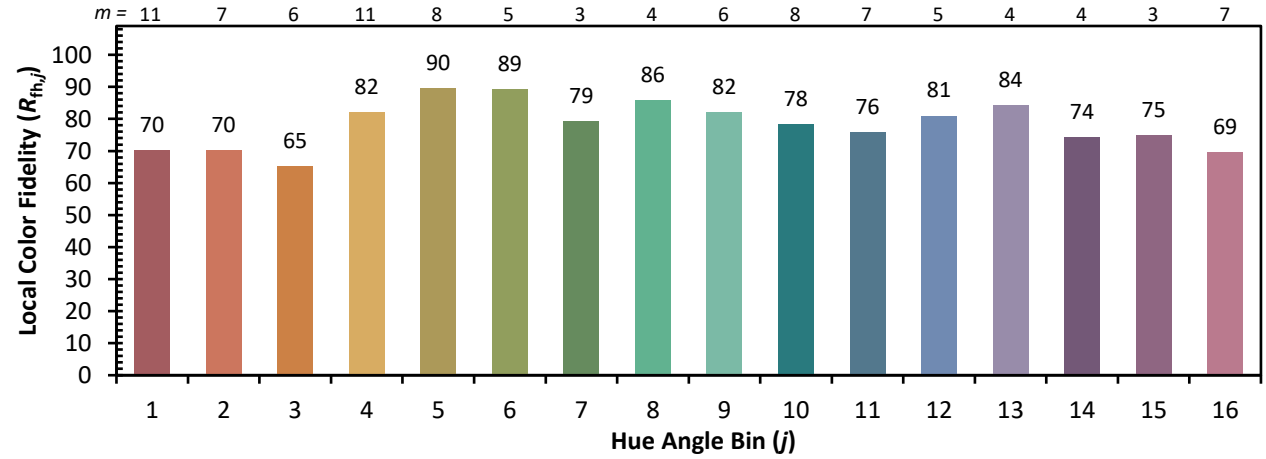
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



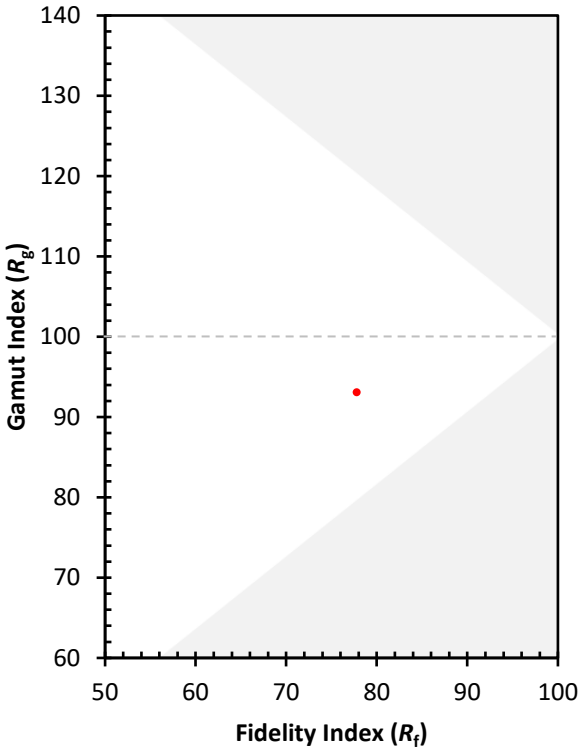


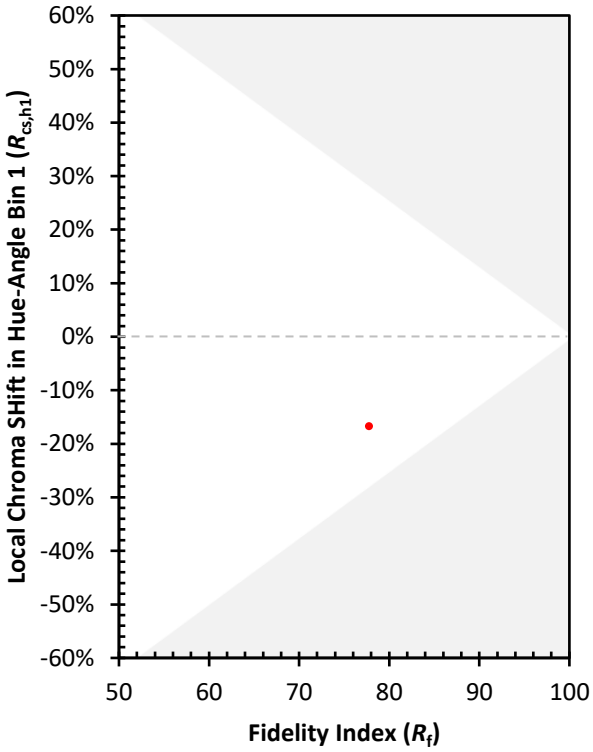


REPORT NUMBER: SP1-2501-332-3

TM-30-18

Measure Comparisons





(END OF REPORT)