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: P1046399

Luminaire Tested: **FFX-CLB-90-750-U-FR-T4**

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:	P1046399
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-750-U-FR-T4
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14866.1 lumens
Efficiency:	N/A
Efficacy:	164.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - G4

Input Watts (W):	90.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	5.42%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

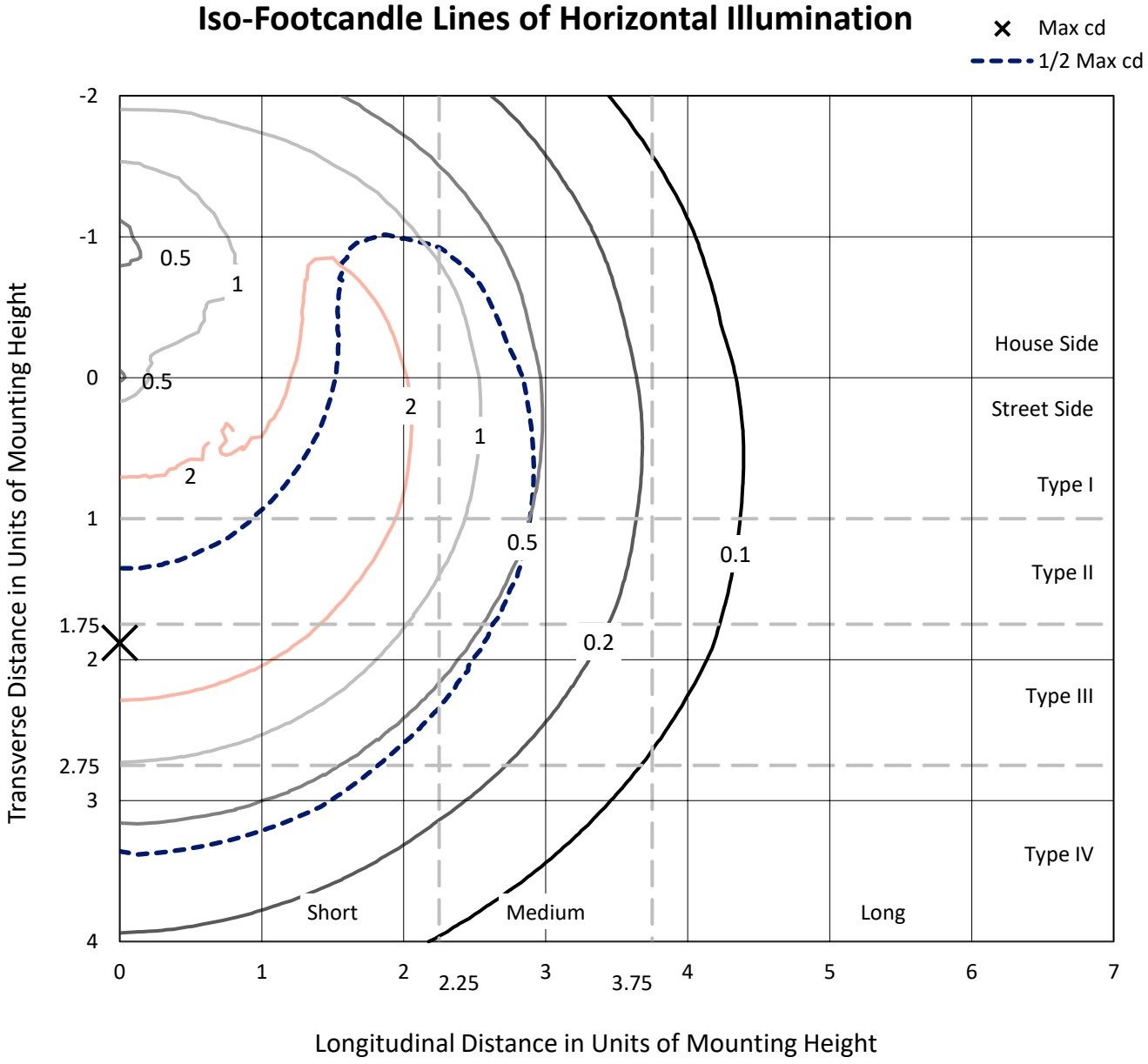


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Iso-Footcandle Lines of Horizontal Illumination



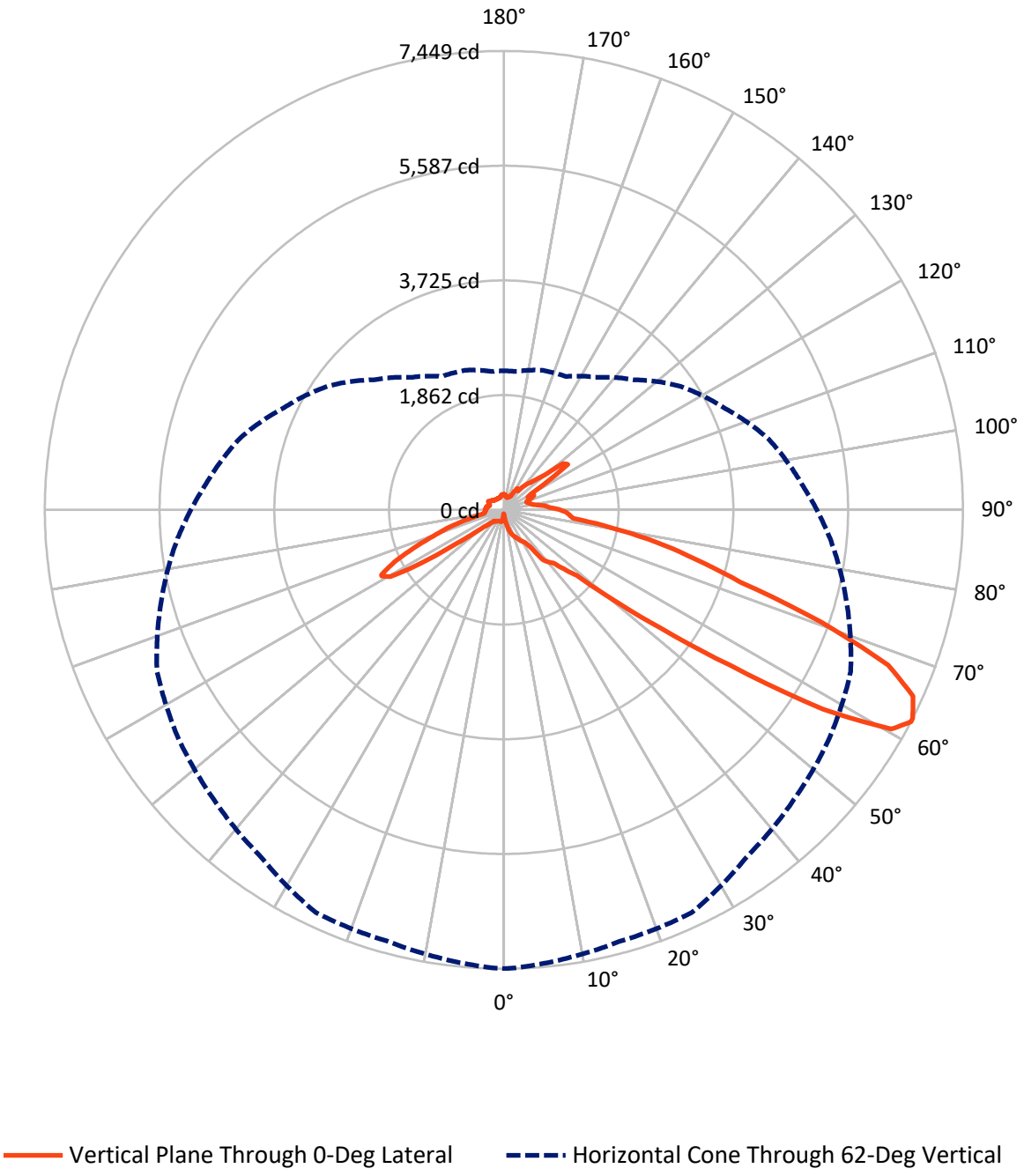
Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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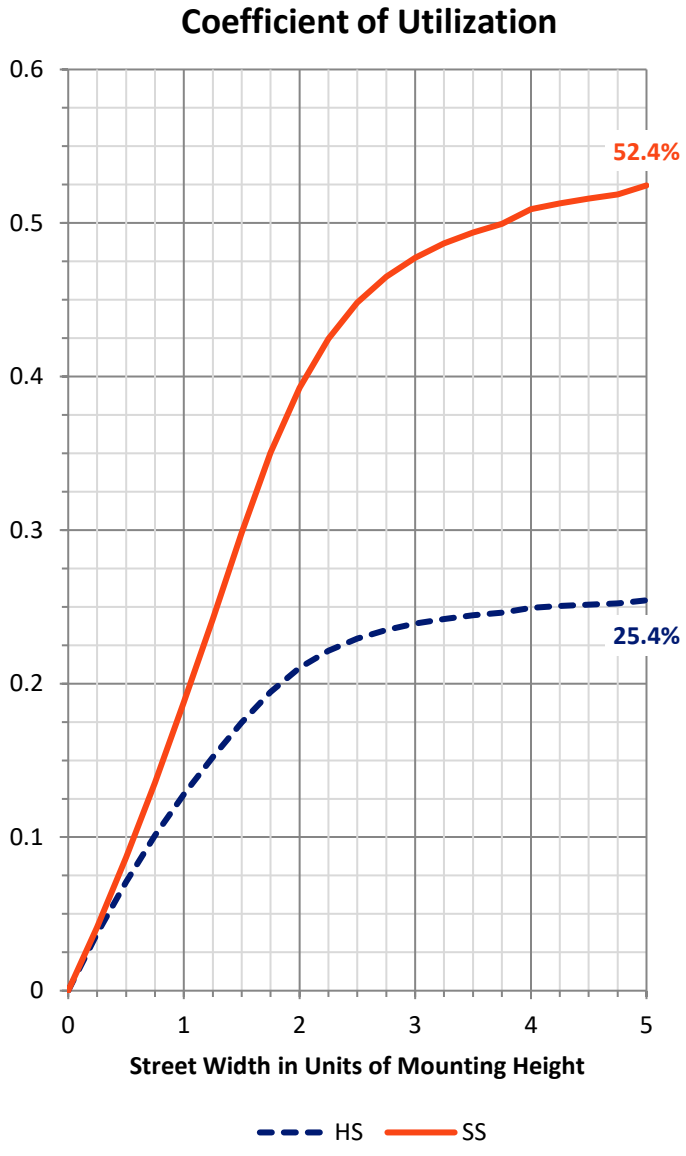
REPORT NUMBER: P1046399
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3911.5	1117.6	5029.1
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	8120.4	1716.6	9837.0
	% Fixture	54.6	11.5	66.2
Total	Lumens	12031.9	2834.2	14866.1
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.0	0.1
10°-20°	82.5	0.6
20°-30°	178.6	1.2
30°-40°	357.5	2.4
40°-50°	783.0	5.3
50°-60°	2741.5	18.4
60°-70°	4588.0	30.9
70°-80°	2381.4	16.0
80°-90°	904.4	6.1
90°-100°	576.8	3.9
100°-110°	382.2	2.6
110°-120°	399.3	2.7
120°-130°	667.2	4.5
130°-140°	401.5	2.7
140°-150°	212.3	1.4
150°-160°	111.7	0.8
160°-170°	60.6	0.4
170°-180°	22.7	0.2
0°-90°	12031.9	80.9
0°-180°	14866.1	100.0



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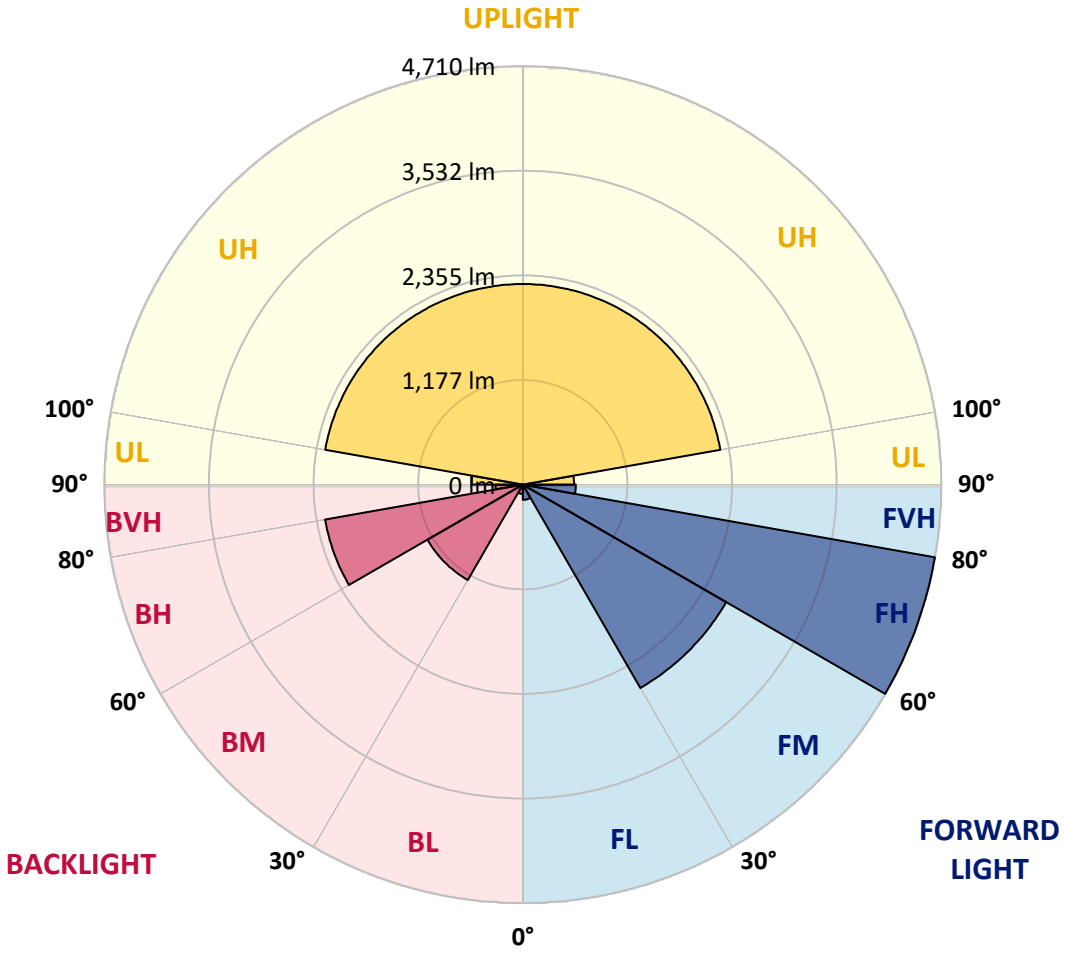
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	171.3	1.2			
FM	(30°-60°)	2643.0	17.8			
FH	(60°-80°)	4709.6	31.7			G2/5000
FVH	(80°-90°)	596.5	4.0			G4/750
BL	(0°-30°)	104.8	0.7	B0/110		
BM	(30°-60°)	1238.9	8.3	B2/2500		
BH	(60°-80°)	2259.9	15.2	B3/2500		G3/2500
BVH	(80°-90°)	307.9	2.1			G3/500
UL	(90°-100°)	576.8	3.9		U4/1000	
UH	(100°-180°)	2257.5	15.2		U5	

BUG Rating: B3-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
2.5°	93.6	91.7	91.7	95.5	100.2	100.2	101.2	98.4	98.4	97.4	98.4
5°	136.2	132.4	134.3	135.2	137.1	139.0	140.9	140.9	137.1	134.3	126.7
7.5°	190.1	189.1	191.0	190.1	188.2	192.9	195.8	202.4	204.3	192.0	176.8
10°	244.9	242.1	241.2	242.1	243.0	240.2	245.9	250.6	244.0	229.8	216.6
12.5°	304.5	304.5	304.5	303.6	303.6	302.6	300.7	299.8	293.2	277.1	256.3
15°	370.7	371.7	373.5	372.6	367.9	360.3	354.6	349.9	346.1	334.8	308.3
17.5°	411.4	409.5	411.4	410.4	408.5	403.8	393.4	384.0	371.7	355.6	335.7
20°	449.2	448.3	447.3	447.3	445.4	439.7	433.1	418.0	401.9	384.9	362.2
22.5°	478.5	476.6	478.5	477.6	476.6	474.7	463.4	450.1	432.2	413.3	389.6
25°	516.3	515.4	516.3	513.5	513.5	510.7	504.1	487.0	467.2	446.4	417.1
27.5°	558.0	555.1	558.0	557.0	553.2	545.7	540.0	521.1	496.5	476.6	450.1
30°	592.9	592.9	594.8	589.2	592.9	586.3	573.1	552.3	531.5	505.9	478.5
32.5°	629.8	629.8	627.9	627.0	631.7	623.2	608.1	583.5	566.5	540.0	516.3
35°	732.9	725.3	737.6	736.7	760.3	743.3	714.9	681.8	655.4	621.3	590.1
37.5°	1028.9	1025.1	1019.5	983.5	941.9	948.5	953.3	916.4	883.3	821.8	749.0
40°	1113.1	1112.1	1111.2	1090.4	1101.7	1071.5	1056.3	1037.4	1031.8	951.4	854.0
42.5°	1182.1	1170.8	1182.1	1219.9	1279.5	1258.7	1182.1	1083.8	1065.8	989.2	949.5
45°	1369.4	1361.8	1380.7	1392.1	1373.1	1339.1	1360.9	1289.0	1239.8	1131.0	1058.2
47.5°	1593.5	1585.9	1603.9	1613.4	1652.1	1616.2	1599.2	1537.7	1455.4	1352.3	1257.8
50°	2262.1	2177.0	2246.0	2222.4	2231.8	2151.4	2183.6	2095.7	2021.9	1852.6	1681.4
52.5°	3193.6	3165.2	3117.9	3065.0	3105.7	3019.6	3046.1	2950.6	2817.2	2620.5	2368.0
55°	4454.2	4358.7	4389.0	4497.7	4475.0	4320.9	4294.4	4061.7	3822.5	3528.4	3262.6
57.5°	6103.5	6056.2	6001.4	5928.5	5857.6	5697.8	5619.3	5359.2	4987.6	4577.1	4207.4
60°	7226.0	7188.2	7163.6	6941.4	6810.9	6489.3	6416.5	6235.9	5904.9	5458.5	4948.8
62°	7449.2	7443.5	7393.4	7255.3	7216.6	6876.1	6654.8	6453.4	6210.4	5757.4	5313.8
62.5°	7447.3	7436.0	7406.7	7291.3	7251.6	6932.9	6692.7	6478.9	6236.8	5792.4	5356.4
65°	7296.0	7270.5	7257.2	7188.2	7170.2	6983.0	6664.3	6443.9	6240.6	5750.8	5387.6
67.5°	6726.7	6757.0	6758.9	6689.8	6630.2	6518.7	6214.1	6023.1	5883.2	5372.5	5030.1
70°	5460.4	5419.8	5378.2	5410.3	5383.8	5323.3	5081.2	4841.0	4666.0	4398.4	4074.0
72.5°	4013.5	4077.8	4076.9	4086.3	4091.1	3938.8	3831.0	3692.9	3598.4	3366.7	3135.0
75°	3217.2	3222.9	3205.0	3138.8	3067.8	2979.9	2998.8	2986.5	2941.1	2696.2	2466.4
77.5°	2540.1	2477.7	2503.2	2399.2	2307.5	2306.5	2343.4	2379.4	2399.2	2202.5	2024.7
80°	1788.3	1774.1	1751.4	1760.9	1685.2	1705.1	1723.1	1747.6	1708.9	1592.5	1510.3
82.5°	1129.2	1116.9	1098.9	1185.9	1258.7	1242.6	1185.0	1092.3	1070.5	1079.0	1060.1
85°	1067.7	1066.7	1050.7	1042.2	1030.8	1005.3	1019.5	1039.3	1028.0	963.7	880.4
87.5°	1008.1	1005.3	993.0	988.2	966.5	963.7	976.9	984.5	989.2	931.5	861.5
90°	883.3	871.9	860.6	870.0	867.2	869.1	872.9	871.0	872.9	804.8	775.5
92.5°	736.7	733.9	725.3	730.1	736.7	763.2	751.8	733.9	731.0	703.6	675.2
95°	672.4	674.3	663.9	670.5	672.4	672.4	664.8	656.3	649.7	627.9	602.4
97.5°	557.0	548.5	544.7	549.4	551.3	544.7	540.0	525.8	524.9	503.1	490.8
100°	473.8	471.9	470.0	475.7	477.6	474.7	475.7	467.2	466.2	453.9	440.7
102.5°	442.6	441.6	440.7	445.4	447.3	445.4	442.6	434.1	436.0	422.7	413.3
105°	418.0	418.0	417.1	419.9	414.2	411.4	407.6	407.6	409.5	399.1	384.9
107.5°	390.6	389.6	390.6	389.6	383.0	380.2	379.2	376.4	383.0	377.3	362.2

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*395.3*	395.3	394.4	384.0	380.2	375.4	373.5	378.3	376.4	366.9	357.5
112.5°	*484.2*	478.5	482.3	468.1	461.5	465.3	467.2	471.0	478.5	463.4	449.2
115°	*540.9*	541.9	551.3	551.3	537.2	543.8	543.8	542.8	550.4	539.0	524.9
117.5°	*441.6*	447.3	477.6	458.7	463.4	467.2	443.5	435.0	433.1	436.0	466.2
120°	*508.8*	501.2	529.6	470.0	452.0	452.0	469.1	490.8	467.2	431.2	440.7
122.5°	*832.2*	833.2	834.1	859.6	856.8	864.4	851.1	834.1	784.9	785.9	741.4
125°	*1273.8*	1261.6	1261.6	1250.2	1248.3	1230.3	1253.0	1267.2	1229.4	1165.1	1095.1
127.5°	*1219.0*	1245.5	1236.0	1207.6	1180.2	1170.8	1197.2	1241.7	1219.9	1163.2	1098.9
130°	*865.3*	871.9	870.0	900.3	907.9	898.4	907.9	875.7	880.4	893.7	859.6
132.5°	*725.3*	721.6	734.8	776.4	792.5	773.6	747.1	723.5	724.4	752.8	750.9
135°	*625.1*	622.3	631.7	633.6	651.6	636.5	612.8	612.8	618.5	625.1	622.3
137.5°	*564.6*	560.8	563.6	541.9	520.1	519.2	538.1	548.5	542.8	536.2	528.6
140°	*486.1*	488.0	483.2	465.3	455.8	457.7	470.0	486.1	481.4	467.2	455.8
142.5°	*386.8*	383.0	388.7	401.9	420.8	420.8	401.9	382.1	381.1	387.7	397.2
145°	*381.1*	379.2	380.2	377.3	381.1	377.3	371.7	366.0	359.4	354.6	350.9
147.5°	*413.3*	413.3	412.3	407.6	403.8	397.2	399.1	405.7	409.5	405.7	400.0
150°	*335.7*	338.6	338.6	337.6	333.8	336.7	340.4	342.3	346.1	346.1	340.4
152.5°	*258.2*	257.2	260.1	256.3	255.3	257.2	262.0	265.7	266.7	266.7	259.1
155°	*245.9*	244.0	245.9	244.0	242.1	244.0	247.8	249.7	251.6	248.7	241.2
157.5°	*229.8*	229.8	229.8	227.9	228.9	228.9	230.7	231.7	232.6	231.7	229.8
160°	*217.5*	217.5	218.5	217.5	217.5	219.4	218.5	217.5	217.5	216.6	215.6
162.5°	*209.9*	209.9	209.9	209.9	209.0	209.0	209.9	209.0	208.1	207.1	209.0
165°	*206.2*	205.2	205.2	205.2	206.2	205.2	205.2	205.2	204.3	207.1	210.9
167.5°	*213.7*	211.8	212.8	213.7	213.7	212.8	212.8	212.8	214.7	217.5	220.3
170°	*224.1*	223.2	223.2	224.1	224.1	223.2	223.2	223.2	224.1	225.1	226.0
172.5°	*232.6*	231.7	231.7	231.7	230.7	229.8	229.8	229.8	229.8	229.8	230.7
175°	*241.2*	241.2	241.2	241.2	240.2	239.3	239.3	239.3	239.3	239.3	239.3
177.5°	*250.6*	249.7	250.6	249.7	249.7	249.7	248.7	247.8	246.8	246.8	246.8
180°	*248.7*	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
2.5°	96.5	95.5	89.8	85.1	81.3	77.5	71.9	67.1	63.4	62.4	62.4
5°	124.8	122.9	117.3	109.7	105.9	100.2	94.6	90.8	86.1	84.2	85.1
7.5°	172.1	173.1	175.0	178.7	176.8	160.8	142.8	139.0	142.8	148.5	151.3
10°	213.7	210.9	209.9	222.2	219.4	195.8	172.1	164.6	171.2	183.5	189.1
12.5°	247.8	242.1	241.2	243.0	231.7	206.2	186.3	177.8	181.6	191.0	190.1
15°	297.9	289.4	277.1	269.5	255.3	237.4	212.8	198.6	198.6	198.6	197.6
17.5°	327.2	317.8	294.1	272.4	254.4	241.2	225.1	211.8	197.6	195.8	194.8
20°	352.7	338.6	313.0	289.4	266.7	247.8	225.1	209.0	196.7	194.8	193.9
22.5°	374.5	361.3	333.8	305.5	277.1	255.3	230.7	213.7	201.4	197.6	196.7
25°	403.8	389.6	358.4	325.3	292.2	264.8	242.1	222.2	207.1	199.5	199.5
27.5°	433.1	417.1	382.1	348.0	312.1	278.0	252.5	232.6	213.7	203.3	202.4
30°	461.5	443.5	405.7	366.9	331.0	295.1	265.7	243.0	222.2	210.9	209.9
32.5°	501.2	480.4	436.0	387.7	351.8	313.0	279.9	253.4	231.7	220.3	218.5
35°	578.8	555.1	505.0	442.6	385.8	333.8	294.1	259.1	238.3	226.0	225.1
37.5°	722.5	695.1	625.1	548.5	471.0	392.5	319.6	266.7	243.0	231.7	229.8
40°	808.6	754.7	680.9	620.4	561.7	486.1	392.5	309.2	252.5	239.3	237.4
42.5°	920.2	864.4	757.5	642.1	567.4	507.8	441.6	387.7	306.4	259.1	250.6
45°	1026.1	983.5	891.8	768.8	655.4	552.3	470.0	418.0	366.0	312.1	303.6
47.5°	1203.9	1141.5	1020.4	894.6	779.3	663.9	566.5	465.3	398.1	366.0	364.1
50°	1659.7	1546.2	1371.3	1220.9	1003.4	826.5	711.2	575.9	489.9	439.7	423.7
52.5°	2248.9	2130.6	1931.1	1713.6	1472.4	1244.5	1018.5	824.6	684.7	596.7	599.6
55°	3126.5	3008.2	2715.1	2342.5	2011.5	1774.1	1532.0	1296.5	1071.5	941.9	925.8
57.5°	4052.3	3946.4	3695.8	3240.9	2714.1	2275.3	1987.8	1821.4	1706.0	1565.1	1565.1
60°	4731.3	4555.4	4271.7	3813.0	3345.9	2769.0	2400.2	2161.9	2141.0	2116.5	2135.4
62°	*5078.4*	*4851.4*	*4446.6*	*3931.2*	*3497.2*	*2983.7*	*2625.2*	*2388.8*	*2347.2*	*2254.5*	*2256.4*
62.5°	5137.0	4886.4	4476.0	3931.2	3510.4	3002.6	2649.8	2419.1	2361.4	2247.9	2249.8
65°	5195.6	4894.0	4497.7	3867.9	3435.7	2937.3	2665.9	2365.2	2213.9	2023.8	1968.0
67.5°	4859.0	4549.7	4210.2	3596.5	3147.3	2665.9	2365.2	2063.5	1816.7	1623.8	1593.5
70°	3946.4	3703.3	3441.4	2972.3	2579.8	2190.2	1934.9	1662.5	1416.6	1203.9	1217.1
72.5°	2995.0	2768.0	2527.8	2229.9	1986.0	1724.0	1498.0	1278.6	1074.3	941.9	966.5
75°	2319.8	2168.5	1998.2	1781.7	1596.3	1354.2	1097.0	902.2	764.1	683.7	688.5
77.5°	1907.5	1750.5	1611.5	1412.9	1237.0	989.2	741.4	575.0	494.6	458.7	449.2
80°	1466.8	1352.3	1229.4	1051.6	857.7	666.7	498.4	420.8	367.9	341.4	331.0
82.5°	1024.2	953.3	850.2	721.6	610.0	540.0	467.2	401.9	347.1	322.5	311.1
85°	843.6	805.7	749.0	676.2	610.0	532.4	451.1	384.9	337.6	318.7	308.3
87.5°	821.8	796.3	732.0	654.4	575.0	495.5	413.3	351.8	321.5	309.2	299.8
90°	753.7	724.4	679.0	602.4	531.5	446.4	379.2	342.3	319.6	305.5	295.1
92.5°	657.3	641.2	599.6	544.7	495.5	440.7	392.5	359.4	335.7	318.7	308.3
95°	584.4	565.5	541.9	497.4	456.8	412.3	367.9	336.7	312.1	294.1	285.6
97.5°	480.4	467.2	444.5	415.2	384.9	349.0	317.8	296.9	280.9	272.4	266.7
100°	436.0	427.5	414.2	393.4	368.8	343.3	320.6	309.2	302.6	296.9	294.1
102.5°	403.8	394.4	384.0	362.2	343.3	320.6	305.5	296.0	287.5	278.0	276.1
105°	375.4	367.9	353.7	335.7	316.8	295.1	277.1	271.4	263.8	255.3	254.4
107.5°	353.7	346.1	333.8	314.9	297.9	279.0	262.9	254.4	245.9	241.2	240.2

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

Scaled Data Report

REPORT NUMBER: P1046399
CATALOG NUMBER: FFX-CLB-90-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	351.8	346.1	332.9	316.8	303.6	284.7	266.7	263.8	254.4	243.0	242.1
112.5°	438.8	420.8	395.3	368.8	346.1	327.2	304.5	281.8	262.9	251.6	249.7
115°	508.8	490.8	459.6	420.8	384.9	344.2	305.5	277.1	266.7	263.8	267.6
117.5°	478.5	440.7	387.7	364.1	332.9	311.1	296.0	289.4	272.4	277.1	281.8
120°	459.6	434.1	387.7	384.0	369.8	345.2	310.2	302.6	293.2	285.6	284.7
122.5°	738.6	714.0	661.0	580.7	493.7	435.0	413.3	367.9	313.0	271.4	264.8
125°	1046.9	1007.2	903.1	814.2	698.9	575.0	463.4	367.9	293.2	253.4	248.7
127.5°	1067.7	1023.2	932.5	812.3	665.8	514.5	399.1	330.0	279.9	253.4	248.7
130°	832.2	803.8	736.7	624.2	523.0	433.1	367.9	312.1	266.7	246.8	244.0
132.5°	735.7	710.2	614.7	521.1	453.9	384.9	330.0	277.1	238.3	225.1	223.2
135°	608.1	579.7	516.3	458.7	409.5	353.7	298.8	253.4	226.0	219.4	218.5
137.5°	519.2	505.9	458.7	418.0	373.5	325.3	279.9	244.9	227.9	222.2	221.3
140°	448.3	445.4	416.1	380.2	335.7	284.7	249.7	228.9	222.2	219.4	218.5
142.5°	396.2	392.5	360.3	318.7	279.0	252.5	239.3	232.6	227.0	219.4	217.5
145°	343.3	336.7	316.8	298.8	286.5	278.0	265.7	244.9	223.2	211.8	210.9
147.5°	390.6	379.2	357.5	331.9	305.5	278.0	252.5	230.7	212.8	206.2	205.2
150°	328.2	327.2	313.0	293.2	273.3	248.7	229.8	215.6	208.1	207.1	207.1
152.5°	254.4	254.4	254.4	249.7	240.2	227.0	212.8	204.3	204.3	208.1	209.0
155°	239.3	240.2	241.2	239.3	231.7	219.4	207.1	203.3	204.3	208.1	209.0
157.5°	227.9	227.9	228.9	227.0	223.2	214.7	206.2	202.4	203.3	205.2	206.2
160°	214.7	214.7	215.6	215.6	211.8	209.0	205.2	202.4	202.4	203.3	204.3
162.5°	209.9	209.9	209.9	209.9	209.0	209.0	209.0	209.0	208.1	208.1	208.1
165°	211.8	211.8	209.0	208.1	209.9	212.8	217.5	218.5	213.7	212.8	212.8
167.5°	221.3	221.3	218.5	216.6	219.4	222.2	228.9	230.7	227.0	223.2	223.2
170°	227.0	227.0	227.0	227.9	228.9	231.7	235.5	237.4	236.4	235.5	235.5
172.5°	230.7	230.7	232.6	234.5	237.4	239.3	241.2	243.0	244.9	244.9	245.9
175°	238.3	239.3	241.2	242.1	244.0	245.9	247.8	249.7	250.6	250.6	250.6
177.5°	245.9	245.9	245.9	246.8	247.8	248.7	249.7	250.6	250.6	251.6	252.5
180°	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7

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: SP1-2501-332-5

Test Date: 03/25/2025

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

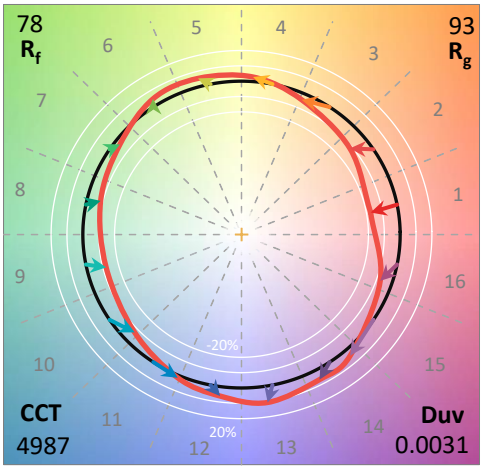
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
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-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	4987	CRI (Ra):	75.8		
CIE u':	0.2094	R1:	71.6	R9:	-30.4
CIE v':	0.4882	R2:	82.8	R10:	59.9
Duv:	0.0031	R3:	91.2	R11:	70.9
CIE x:	0.3461	R4:	73.8	R12:	51.2
CIE y:	0.3586	R5:	73.0	R13:	74.2
CIE z:	0.2954	R6:	76.1	R14:	95.3
Peak Wavelength (nm):	450	R7:	82.9	R15:	63.7
Dominant Wavelength (nm):	570	R8:	54.9		
Purity:	11.4				

Rf:	78.3
Rg:	93.4



Test Conditions

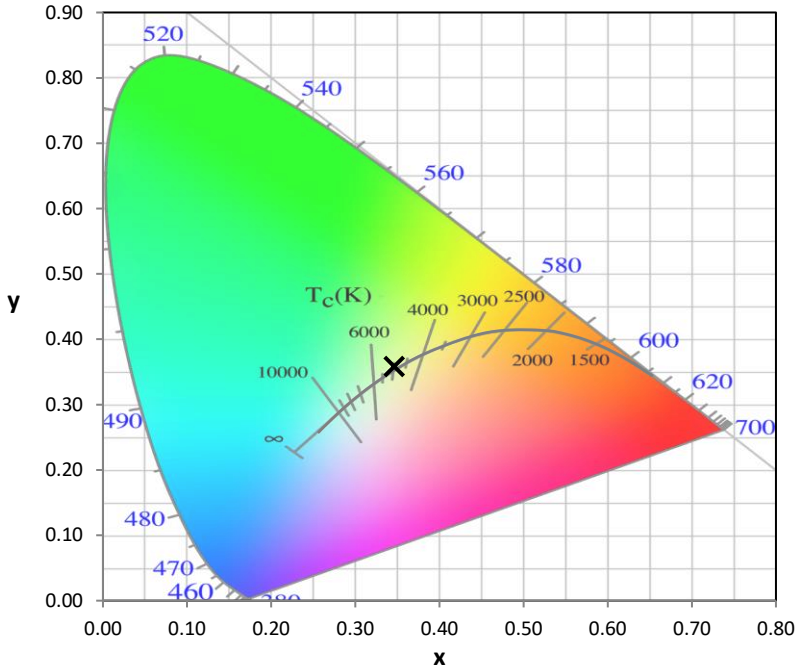
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

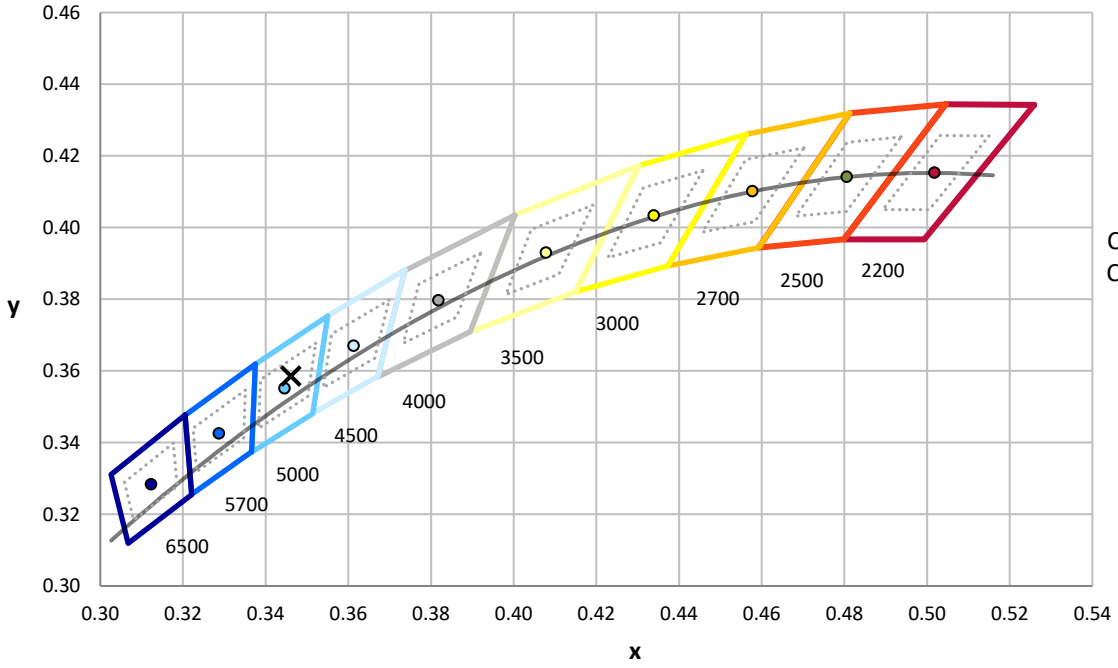
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

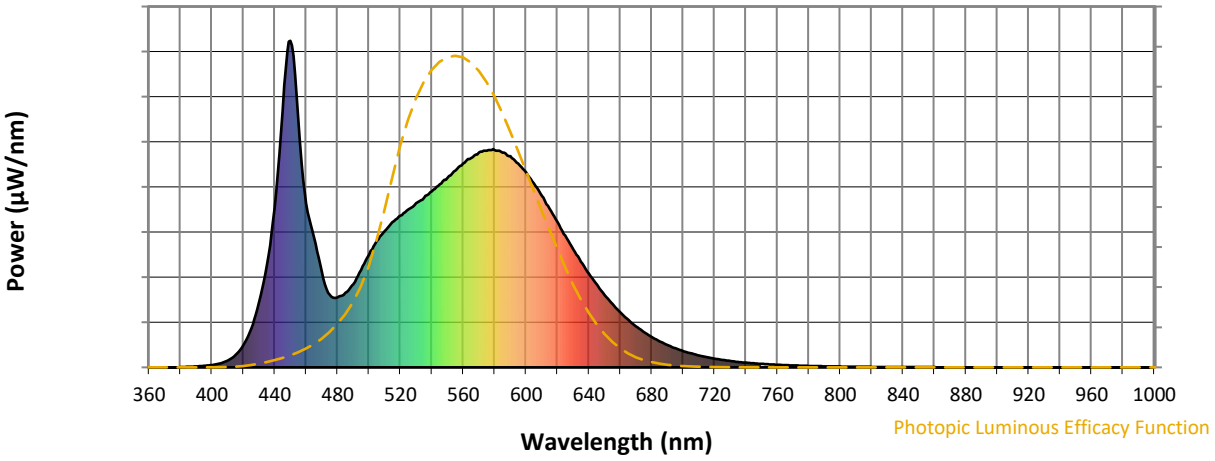


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

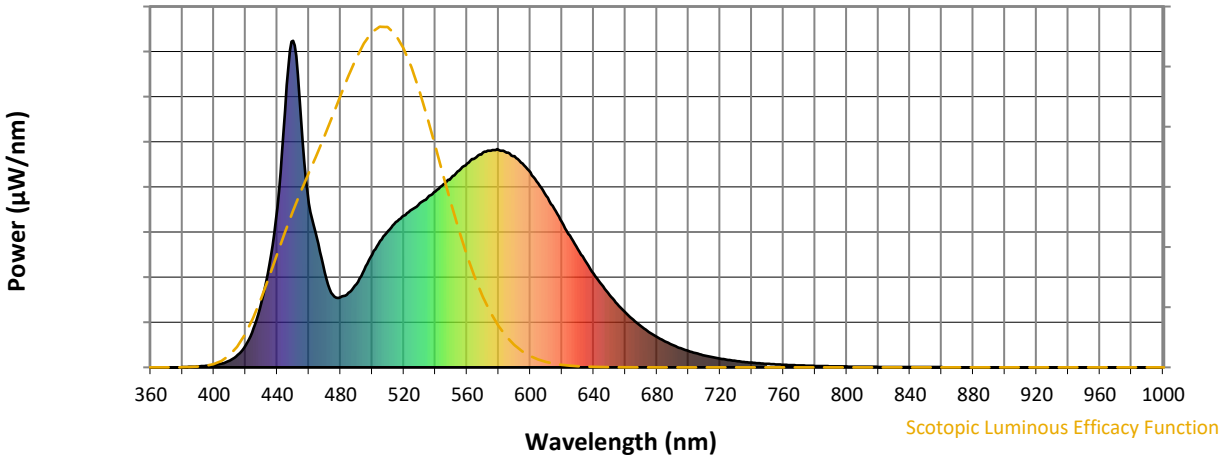


Photopic Lumens: NR

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

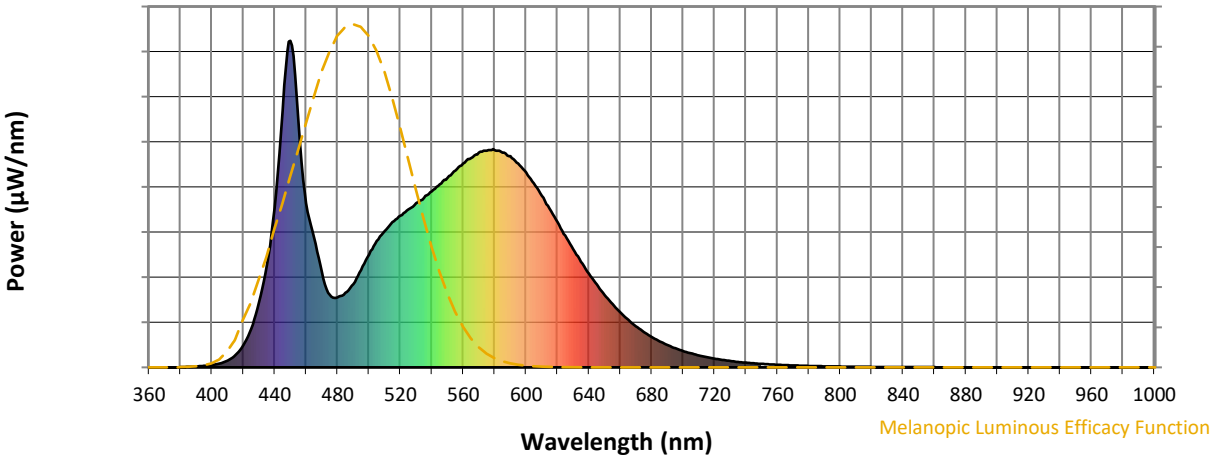


Scotopic Lumens: NR **S/P: 1.87**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.92**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

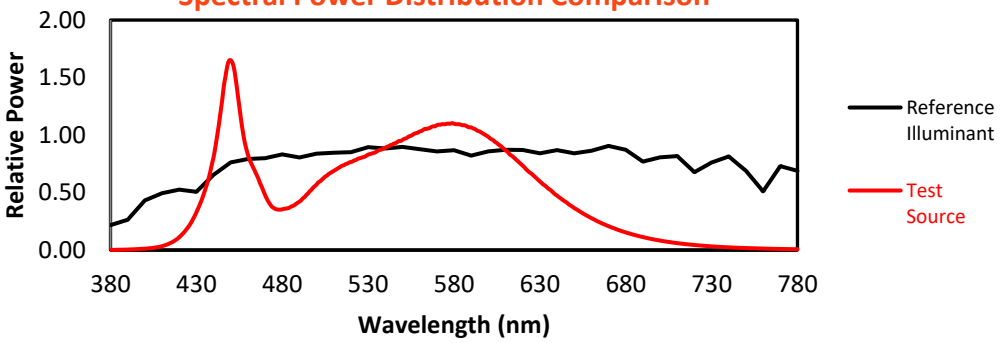
REPORT NUMBER: SP1-2501-332-5

TM-30-18

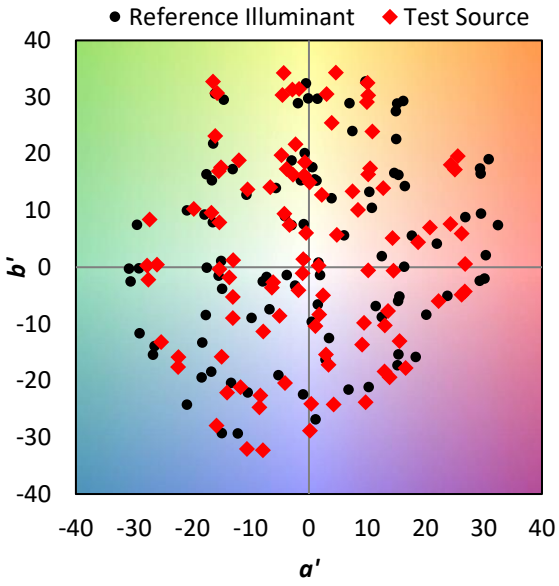
Summary

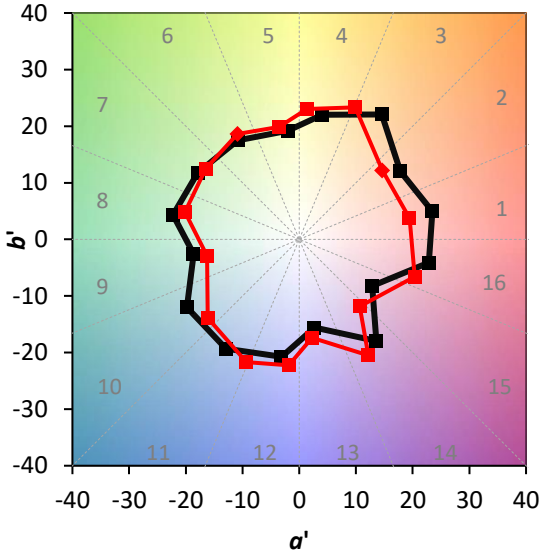
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R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

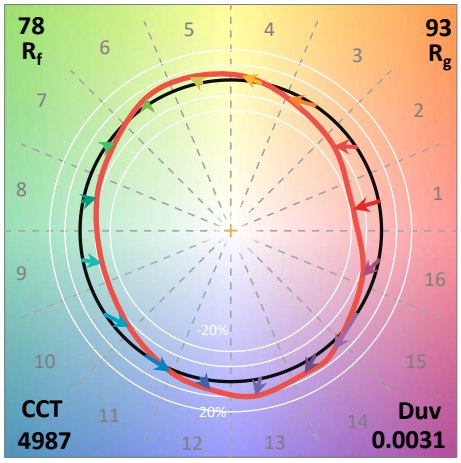
Spectral Power Distribution Comparison

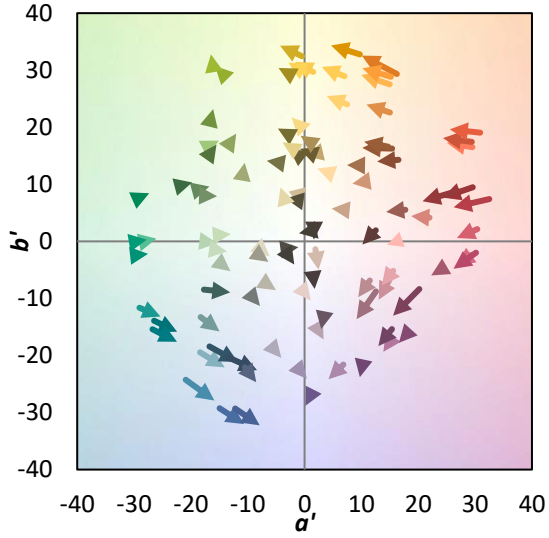


Color Vector Graphics







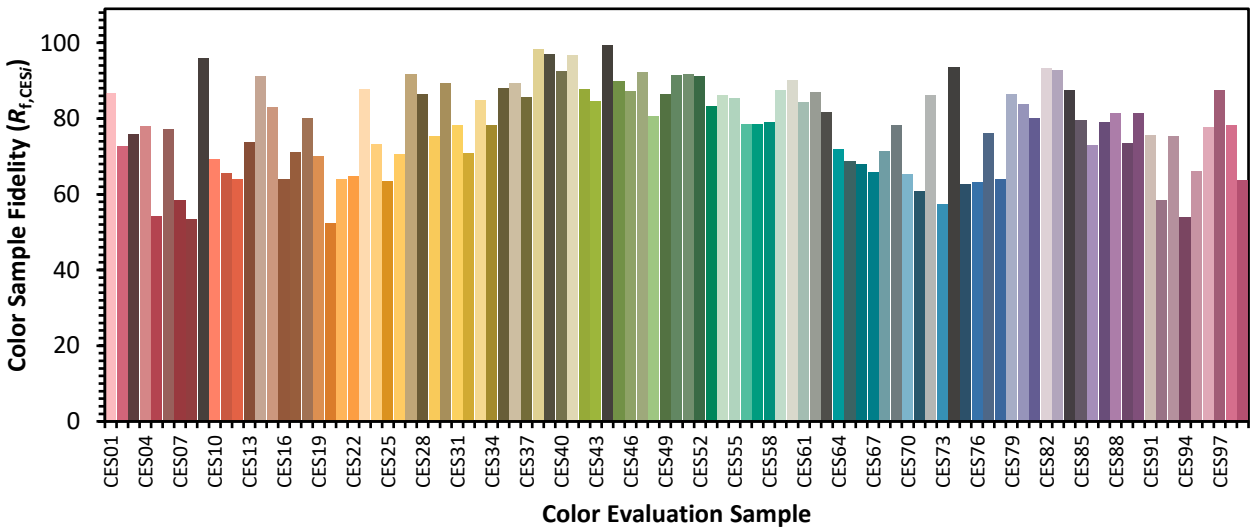


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

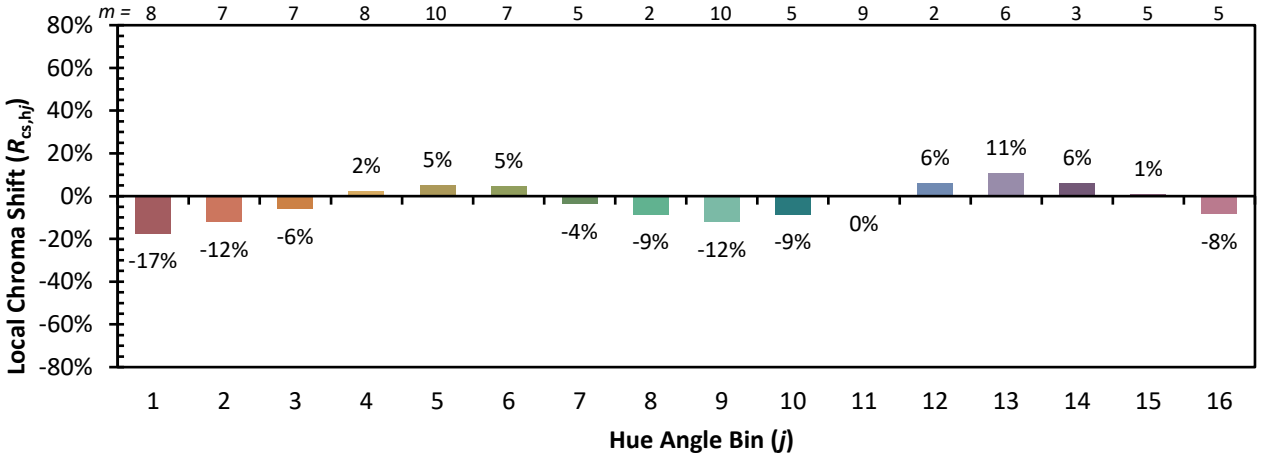
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CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 85	CES58 = 79	CES83 = 93
CES09 = 29	CES34 = 78	CES59 = 88	CES84 = 87
CES10 = 73	CES35 = 88	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 89	CES61 = 84	CES86 = 73
CES12 = 61	CES37 = 86	CES62 = 87	CES87 = 79
CES13 = 41	CES38 = 98	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 93	CES65 = 69	CES90 = 81
CES16 = 46	CES41 = 97	CES66 = 68	CES91 = 76
CES17 = 49	CES42 = 88	CES67 = 66	CES92 = 58
CES18 = 55	CES43 = 85	CES68 = 71	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 90	CES70 = 65	CES95 = 66
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 92	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 81	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 91	CES75 = 63	

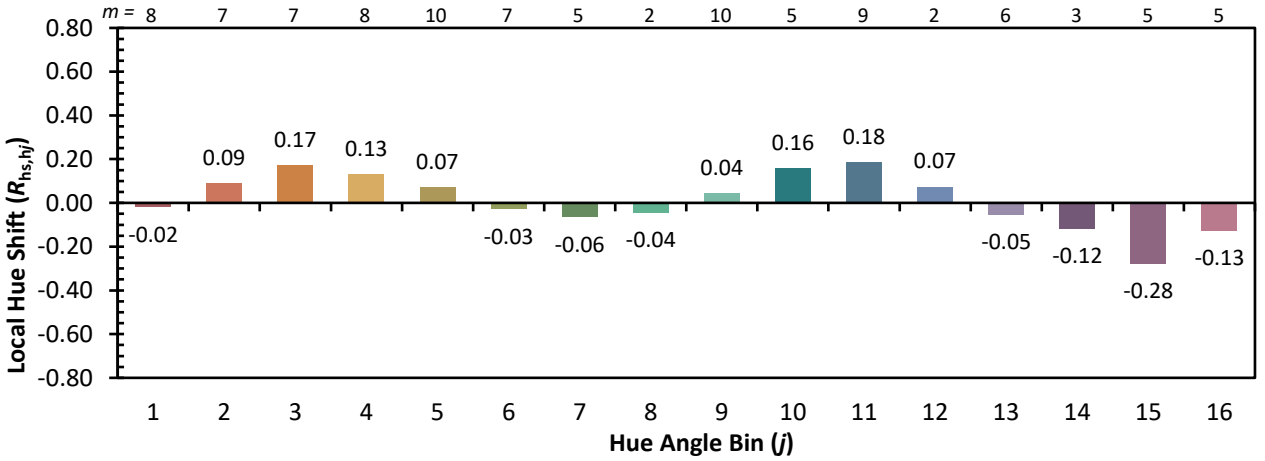


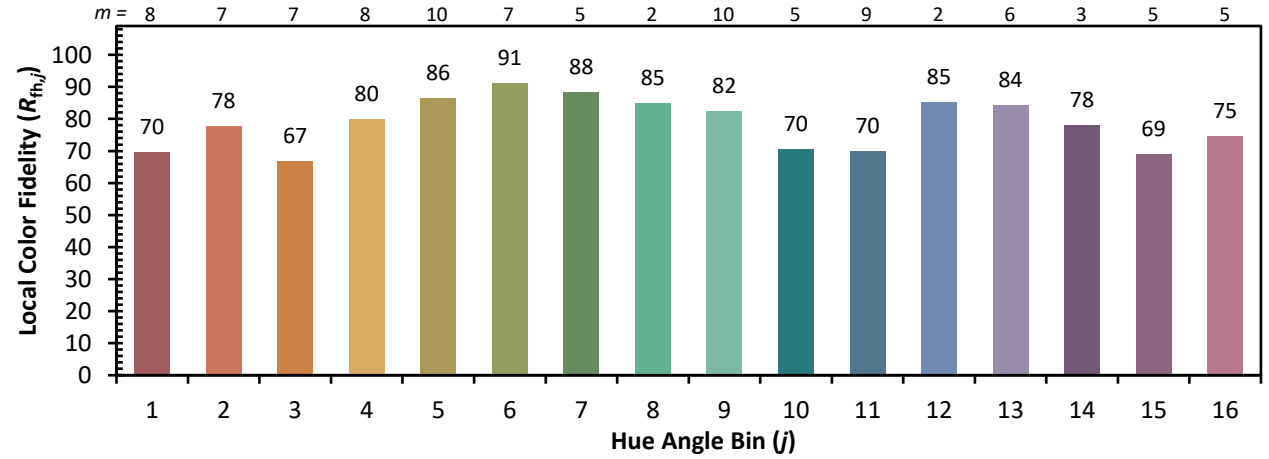
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



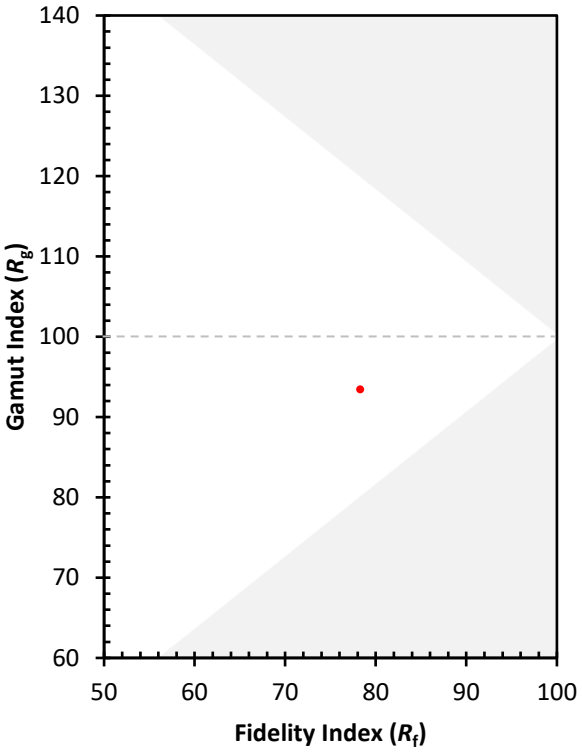


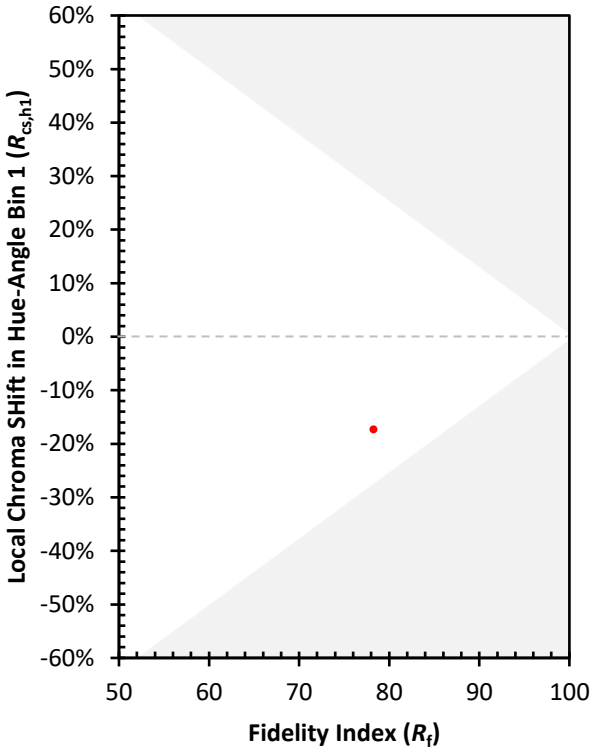


REPORT NUMBER: SP1-2501-332-5

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Measure Comparisons





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