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: P1046376

Luminaire Tested: **FFX-CLB-50-727-U-FR-T4**

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:	P1046376
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-727-U-FR-T4
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7513.1 lumens
Efficiency:	N/A
Efficacy:	148.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

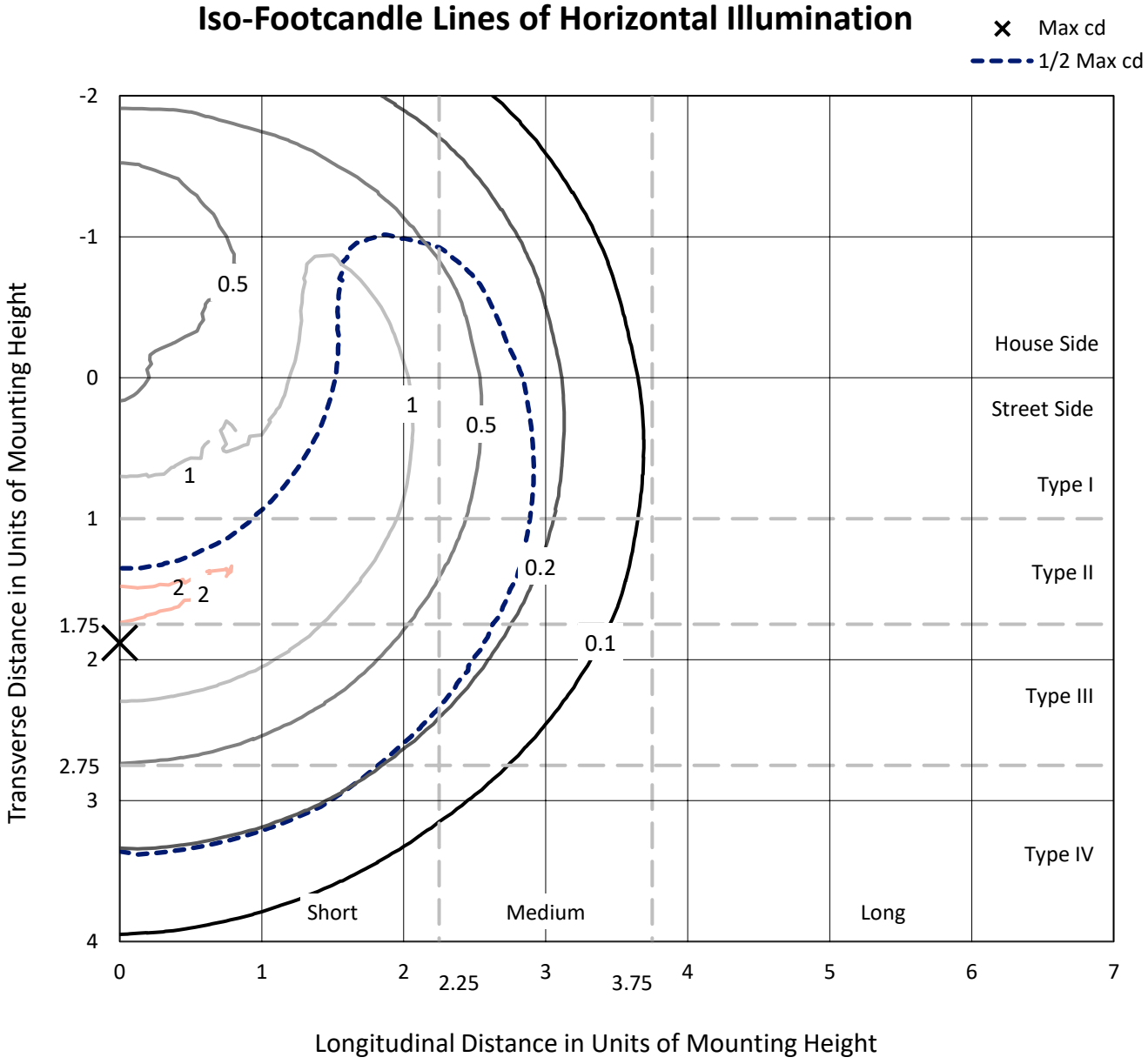


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Iso-Footcandle Lines of Horizontal Illumination



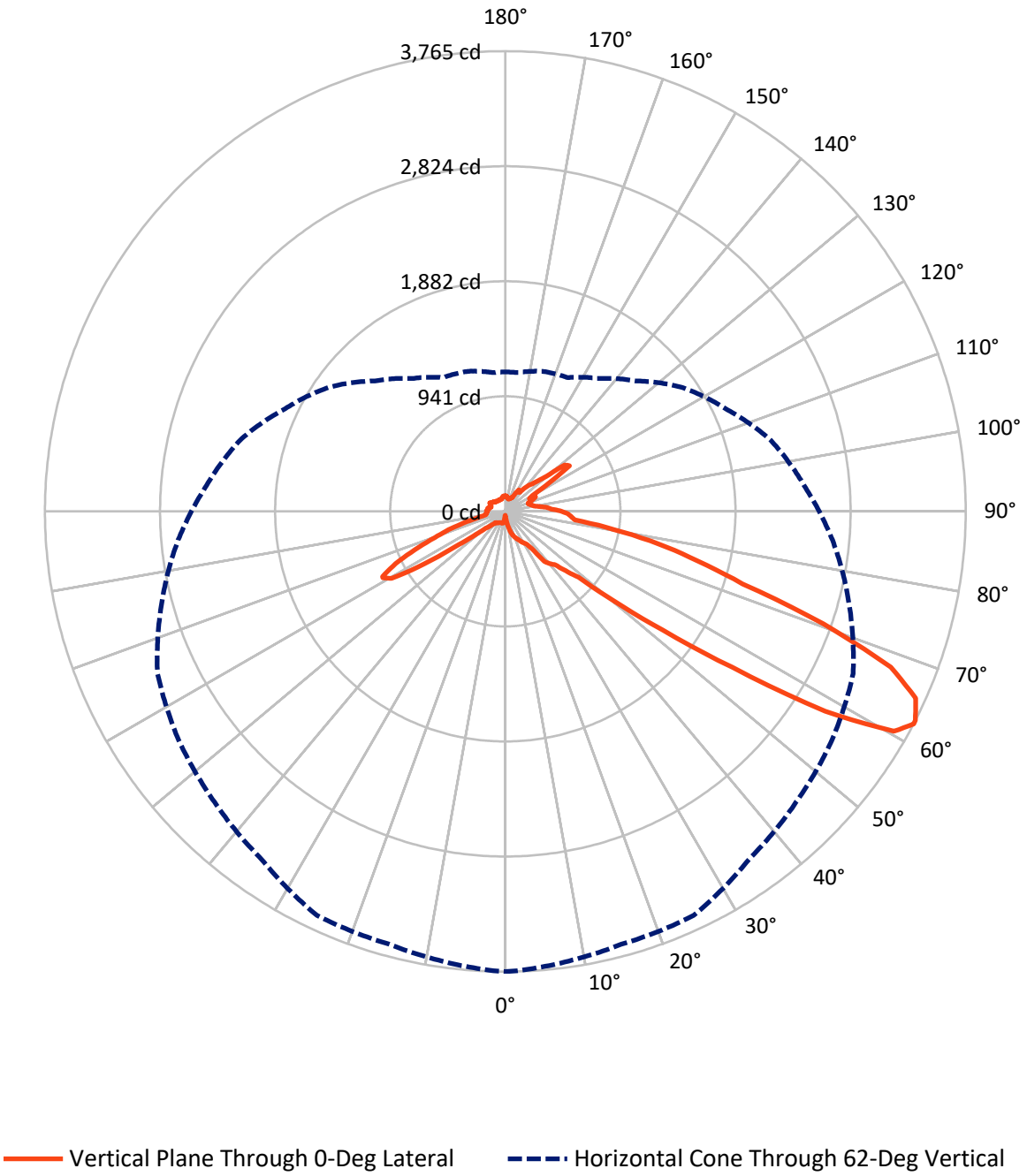
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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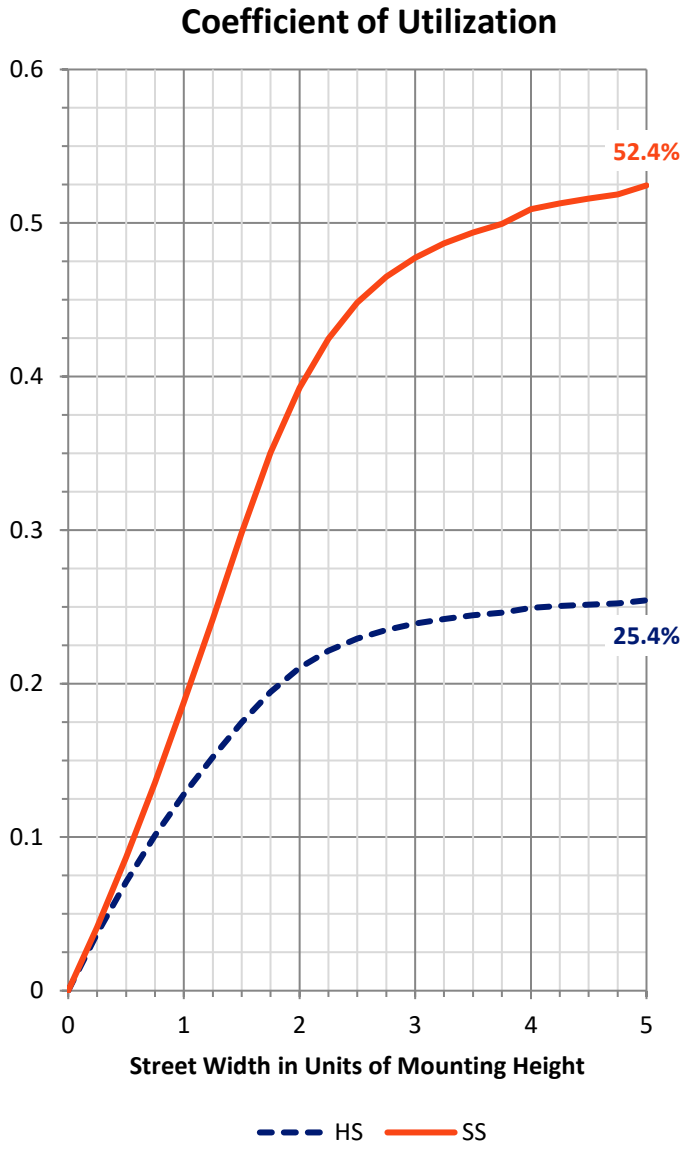
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1976.8	564.8	2541.6
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	4103.9	867.5	4971.5
	% Fixture	54.6	11.5	66.2
Total	Lumens	6080.7	1432.4	7513.1
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.1
10°-20°	41.7	0.6
20°-30°	90.2	1.2
30°-40°	180.7	2.4
40°-50°	395.7	5.3
50°-60°	1385.5	18.4
60°-70°	2318.7	30.9
70°-80°	1203.5	16.0
80°-90°	457.1	6.1
90°-100°	291.5	3.9
100°-110°	193.2	2.6
110°-120°	201.8	2.7
120°-130°	337.2	4.5
130°-140°	202.9	2.7
140°-150°	107.3	1.4
150°-160°	56.4	0.8
160°-170°	30.6	0.4
170°-180°	11.5	0.2
0°-90°	6080.7	80.9
0°-180°	7513.1	100.0



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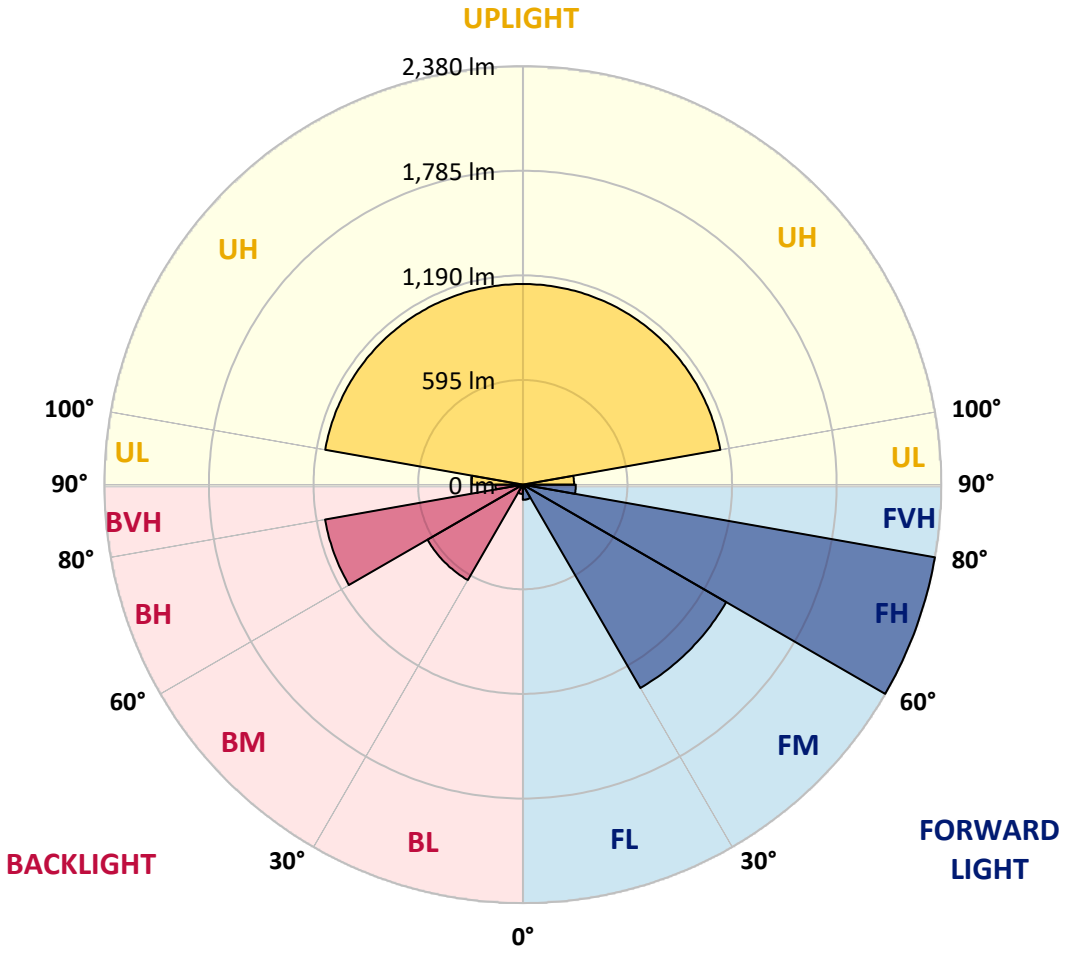
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	86.6	1.2			
FM	(30°-60°)	1335.7	17.8			
FH	(60°-80°)	2380.2	31.7			G2/5000
FVH	(80°-90°)	301.5	4.0			G3/500
BL	(0°-30°)	53.0	0.7	B0/110		
BM	(30°-60°)	626.1	8.3	B1/1000		
BH	(60°-80°)	1142.1	15.2	B3/2500		G3/2500
BVH	(80°-90°)	155.6	2.1			G2/225
UL	(90°-100°)	291.5	3.9		U3/500	
UH	(100°-180°)	1140.9	15.2		U5	

BUG Rating: B3-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
2.5°	47.3	46.4	46.4	48.3	50.7	50.7	51.1	49.7	49.7	49.2	49.7
5°	68.8	66.9	67.9	68.3	69.3	70.3	71.2	71.2	69.3	67.9	64.0
7.5°	96.1	95.6	96.5	96.1	95.1	97.5	98.9	102.3	103.2	97.0	89.4
10°	123.8	122.4	121.9	122.4	122.8	121.4	124.3	126.7	123.3	116.1	109.4
12.5°	153.9	153.9	153.9	153.4	153.4	152.9	152.0	151.5	148.2	140.0	129.5
15°	187.4	187.8	188.8	188.3	185.9	182.1	179.2	176.8	174.9	169.2	155.8
17.5°	207.9	206.9	207.9	207.4	206.5	204.1	198.8	194.0	187.8	179.7	169.7
20°	227.0	226.5	226.1	226.1	225.1	222.2	218.9	211.2	203.1	194.5	183.1
22.5°	241.8	240.9	241.8	241.4	240.9	239.9	234.2	227.5	218.4	208.9	196.9
25°	261.0	260.5	261.0	259.5	259.5	258.1	254.7	246.1	236.1	225.6	210.8
27.5°	282.0	280.5	282.0	281.5	279.6	275.8	272.9	263.3	250.9	240.9	227.5
30°	299.7	299.7	300.6	297.8	299.7	296.3	289.6	279.1	268.6	255.7	241.8
32.5°	318.3	318.3	317.4	316.9	319.3	315.0	307.3	294.9	286.3	272.9	261.0
35°	370.4	366.6	372.8	372.3	384.3	375.7	361.3	344.6	331.2	314.0	298.2
37.5°	520.0	518.1	515.2	497.1	476.0	479.4	481.8	463.1	446.4	415.3	378.5
40°	562.5	562.1	561.6	551.1	556.8	541.5	533.9	524.3	521.4	480.8	431.6
42.5°	597.4	591.7	597.4	616.5	646.7	636.1	597.4	547.7	538.6	499.9	479.8
45°	692.1	688.2	697.8	703.5	694.0	676.8	687.8	651.4	626.6	571.6	534.8
47.5°	805.3	801.5	810.6	815.4	835.0	816.8	808.2	777.1	735.5	683.5	635.7
50°	1143.2	1100.2	1135.1	1123.2	1127.9	1087.3	1103.6	1059.1	1021.8	936.3	849.8
52.5°	1614.0	1599.7	1575.8	1549.0	1569.5	1526.1	1539.4	1491.2	1423.8	1324.4	1196.8
55°	2251.1	2202.8	2218.1	2273.1	2261.6	2183.7	2170.3	2052.7	1931.8	1783.2	1648.9
57.5°	3084.6	3060.7	3033.0	2996.2	2960.3	2879.6	2839.9	2708.5	2520.6	2313.2	2126.3
60°	3651.9	3632.8	3620.4	3508.1	3442.1	3279.6	3242.8	3151.5	2984.2	2758.7	2501.1
62°	3764.7	3761.9	3736.5	3666.7	3647.1	3475.1	3363.3	3261.5	3138.6	2909.7	2685.5
62.5°	3763.8	3758.0	3743.2	3684.9	3664.8	3503.8	3382.4	3274.4	3152.0	2927.4	2707.0
65°	3687.3	3674.4	3667.7	3632.8	3623.7	3529.1	3368.0	3256.7	3153.9	2906.3	2722.8
67.5°	3399.6	3414.9	3415.8	3380.9	3350.8	3294.4	3140.5	3044.0	2973.3	2715.2	2542.2
70°	2759.6	2739.1	2718.0	2734.3	2720.9	2690.3	2568.0	2446.6	2358.1	2222.9	2059.0
72.5°	2028.4	2060.9	2060.4	2065.2	2067.6	1990.6	1936.1	1866.3	1818.6	1701.5	1584.4
75°	1625.9	1628.8	1619.7	1586.3	1550.4	1506.0	1515.5	1509.3	1486.4	1362.6	1246.5
77.5°	1283.7	1252.2	1265.1	1212.5	1166.2	1165.7	1184.3	1202.5	1212.5	1113.1	1023.3
80°	903.8	896.6	885.1	889.9	851.7	861.7	870.8	883.2	863.6	804.8	763.3
82.5°	570.7	564.4	555.4	599.3	636.1	628.0	598.9	552.0	541.0	545.3	535.8
85°	539.6	539.1	531.0	526.7	521.0	508.0	515.2	525.3	519.5	487.0	445.0
87.5°	509.5	508.0	501.8	499.4	488.5	487.0	493.7	497.5	499.9	470.8	435.4
90°	446.4	440.7	434.9	439.7	438.3	439.2	441.1	440.2	441.1	406.7	391.9
92.5°	372.3	370.9	366.6	369.0	372.3	385.7	380.0	370.9	369.4	355.6	341.2
95°	339.8	340.8	335.5	338.9	339.8	339.8	336.0	331.7	328.3	317.4	304.4
97.5°	281.5	277.2	275.3	277.7	278.6	275.3	272.9	265.7	265.3	254.3	248.0
100°	239.4	238.5	237.5	240.4	241.4	239.9	240.4	236.1	235.6	229.4	222.7
102.5°	223.7	223.2	222.7	225.1	226.1	225.1	223.7	219.4	220.3	213.6	208.9
105°	211.2	211.2	210.8	212.2	209.3	207.9	206.0	206.0	206.9	201.7	194.5
107.5°	197.4	196.9	197.4	196.9	193.6	192.1	191.7	190.2	193.6	190.7	183.1

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*199.8*	199.8	199.3	194.0	192.1	189.7	188.8	191.2	190.2	185.4	180.7
112.5°	*244.7*	241.8	243.7	236.6	233.2	235.1	236.1	238.0	241.8	234.2	227.0
115°	*273.4*	273.9	278.6	278.6	271.5	274.8	274.8	274.3	278.2	272.4	265.3
117.5°	*223.2*	226.1	241.4	231.8	234.2	236.1	224.2	219.9	218.9	220.3	235.6
120°	*257.1*	253.3	267.6	237.5	228.5	228.5	237.1	248.0	236.1	217.9	222.7
122.5°	*420.6*	421.1	421.5	434.4	433.0	436.8	430.1	421.5	396.7	397.2	374.7
125°	*643.8*	637.6	637.6	631.8	630.9	621.8	633.3	640.4	621.3	588.8	553.5
127.5°	*616.1*	629.4	624.7	610.3	596.5	591.7	605.1	627.5	616.5	587.9	555.4
130°	*437.3*	440.7	439.7	455.0	458.8	454.0	458.8	442.6	445.0	451.7	434.4
132.5°	*366.6*	364.7	371.4	392.4	400.5	391.0	377.6	365.6	366.1	380.4	379.5
135°	*315.9*	314.5	319.3	320.2	329.3	321.7	309.7	309.7	312.6	315.9	314.5
137.5°	*285.3*	283.4	284.9	273.9	262.9	262.4	271.9	277.2	274.3	271.0	267.2
140°	*245.7*	246.6	244.2	235.1	230.4	231.3	237.5	245.7	243.3	236.1	230.4
142.5°	*195.5*	193.6	196.4	203.1	212.7	212.7	203.1	193.1	192.6	196.0	200.7
145°	*192.6*	191.7	192.1	190.7	192.6	190.7	187.8	185.0	181.6	179.2	177.3
147.5°	*208.9*	208.9	208.4	206.0	204.1	200.7	201.7	205.0	206.9	205.0	202.2
150°	*169.7*	171.1	171.1	170.6	168.7	170.1	172.1	173.0	174.9	174.9	172.1
152.5°	*130.5*	130.0	131.4	129.5	129.0	130.0	132.4	134.3	134.8	134.8	131.0
155°	*124.3*	123.3	124.3	123.3	122.4	123.3	125.2	126.2	127.1	125.7	121.9
157.5°	*116.1*	116.1	116.1	115.2	115.7	115.7	116.6	117.1	117.6	117.1	116.1
160°	*109.9*	109.9	110.4	109.9	109.9	110.9	110.4	109.9	109.9	109.4	109.0
162.5°	*106.1*	106.1	106.1	106.1	105.6	105.6	106.1	105.6	105.1	104.7	105.6
165°	*104.2*	103.7	103.7	103.7	104.2	103.7	103.7	103.7	103.2	104.7	106.6
167.5°	*108.0*	107.1	107.5	108.0	108.0	107.5	107.5	107.5	108.5	109.9	111.4
170°	*113.3*	112.8	112.8	113.3	113.3	112.8	112.8	112.8	113.3	113.7	114.2
172.5°	*117.6*	117.1	117.1	117.1	116.6	116.1	116.1	116.1	116.1	116.1	116.6
175°	*121.9*	121.9	121.9	121.9	121.4	120.9	120.9	120.9	120.9	120.9	120.9
177.5°	*126.7*	126.2	126.7	126.2	126.2	126.2	125.7	125.2	124.7	124.7	124.7
180°	*125.7*	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
2.5°	48.7	48.3	45.4	43.0	41.1	39.2	36.3	33.9	32.0	31.5	31.5
5°	63.1	62.1	59.3	55.4	53.5	50.7	47.8	45.9	43.5	42.5	43.0
7.5°	87.0	87.5	88.4	90.3	89.4	81.2	72.2	70.3	72.2	75.0	76.5
10°	108.0	106.6	106.1	112.3	110.9	98.9	87.0	83.2	86.5	92.7	95.6
12.5°	125.2	122.4	121.9	122.8	117.1	104.2	94.2	89.9	91.8	96.5	96.1
15°	150.6	146.2	140.0	136.2	129.0	120.0	107.5	100.4	100.4	100.4	99.9
17.5°	165.4	160.6	148.6	137.6	128.6	121.9	113.7	107.1	99.9	98.9	98.5
20°	178.3	171.1	158.2	146.2	134.8	125.2	113.7	105.6	99.4	98.5	98.0
22.5°	189.3	182.6	168.7	154.4	140.0	129.0	116.6	108.0	101.8	99.9	99.4
25°	204.1	196.9	181.1	164.4	147.7	133.8	122.4	112.3	104.7	100.8	100.8
27.5°	218.9	210.8	193.1	175.9	157.7	140.5	127.6	117.6	108.0	102.8	102.3
30°	233.2	224.2	205.0	185.4	167.3	149.1	134.3	122.8	112.3	106.6	106.1
32.5°	253.3	242.8	220.3	196.0	177.8	158.2	141.5	128.1	117.1	111.4	110.4
35°	292.5	280.5	255.2	223.7	195.0	168.7	148.6	131.0	120.4	114.2	113.7
37.5°	365.1	351.3	315.9	277.2	238.0	198.3	161.5	134.8	122.8	117.1	116.1
40°	408.6	381.4	344.1	313.5	283.9	245.7	198.3	156.3	127.6	120.9	120.0
42.5°	465.0	436.8	382.8	324.5	286.8	256.7	223.2	196.0	154.9	131.0	126.7
45°	518.6	497.1	450.7	388.6	331.2	279.1	237.5	211.2	185.0	157.7	153.4
47.5°	608.4	576.9	515.7	452.1	393.8	335.5	286.3	235.1	201.2	185.0	184.0
50°	838.8	781.4	693.0	617.0	507.1	417.7	359.4	291.1	247.6	222.2	214.1
52.5°	1136.5	1076.8	975.9	866.0	744.1	629.0	514.7	416.8	346.0	301.6	303.0
55°	1580.1	1520.3	1372.2	1183.9	1016.6	896.6	774.3	655.3	541.5	476.0	467.9
57.5°	2048.0	1994.4	1867.8	1637.9	1371.7	1149.9	1004.6	920.5	862.2	791.0	791.0
60°	2391.1	2302.2	2158.8	1927.0	1690.9	1399.4	1213.0	1092.6	1082.1	1069.6	1079.2
62°	*2566.5*	*2451.8*	*2247.3*	*1986.8*	*1767.4*	*1507.9*	*1326.8*	*1207.3*	*1186.2*	*1139.4*	*1140.4*
62.5°	2596.2	2469.5	2262.1	1986.8	1774.1	1517.5	1339.2	1222.6	1193.4	1136.1	1137.0
65°	2625.8	2473.3	2273.1	1954.8	1736.3	1484.5	1347.3	1195.3	1118.9	1022.8	994.6
67.5°	2455.6	2299.4	2127.8	1817.6	1590.6	1347.3	1195.3	1042.9	918.1	820.6	805.3
70°	1994.4	1871.6	1739.2	1502.2	1303.8	1106.9	977.9	840.2	716.0	608.4	615.1
72.5°	1513.6	1398.9	1277.5	1127.0	1003.7	871.3	757.1	646.2	542.9	476.0	488.5
75°	1172.4	1095.9	1009.9	900.4	806.8	684.4	554.4	456.0	386.2	345.5	347.9
77.5°	964.0	884.7	814.4	714.0	625.1	499.9	374.7	290.6	250.0	231.8	227.0
80°	741.3	683.5	621.3	531.5	433.5	336.9	251.9	212.7	185.9	172.5	167.3
82.5°	517.6	481.8	429.7	364.7	308.3	272.9	236.1	203.1	175.4	163.0	157.2
85°	426.3	407.2	378.5	341.7	308.3	269.1	228.0	194.5	170.6	161.1	155.8
87.5°	415.3	402.4	369.9	330.7	290.6	250.4	208.9	177.8	162.5	156.3	151.5
90°	380.9	366.1	343.2	304.4	268.6	225.6	191.7	173.0	161.5	154.4	149.1
92.5°	332.2	324.0	303.0	275.3	250.4	222.7	198.3	181.6	169.7	161.1	155.8
95°	295.4	285.8	273.9	251.4	230.8	208.4	185.9	170.1	157.7	148.6	144.3
97.5°	242.8	236.1	224.6	209.8	194.5	176.4	160.6	150.1	141.9	137.6	134.8
100°	220.3	216.0	209.3	198.8	186.4	173.5	162.0	156.3	152.9	150.1	148.6
102.5°	204.1	199.3	194.0	183.1	173.5	162.0	154.4	149.6	145.3	140.5	139.6
105°	189.7	185.9	178.7	169.7	160.1	149.1	140.0	137.2	133.3	129.0	128.6
107.5°	178.7	174.9	168.7	159.2	150.6	141.0	132.9	128.6	124.3	121.9	121.4

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

Scaled Data Report

REPORT NUMBER: P1046376
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	177.8	174.9	168.2	160.1	153.4	143.9	134.8	133.3	128.6	122.8	122.4
112.5°	221.8	212.7	199.8	186.4	174.9	165.4	153.9	142.4	132.9	127.1	126.2
115°	257.1	248.0	232.3	212.7	194.5	174.0	154.4	140.0	134.8	133.3	135.3
117.5°	241.8	222.7	196.0	184.0	168.2	157.2	149.6	146.2	137.6	140.0	142.4
120°	232.3	219.4	196.0	194.0	186.9	174.4	156.8	152.9	148.2	144.3	143.9
122.5°	373.3	360.8	334.1	293.5	249.5	219.9	208.9	185.9	158.2	137.2	133.8
125°	529.1	509.0	456.4	411.5	353.2	290.6	234.2	185.9	148.2	128.1	125.7
127.5°	539.6	517.1	471.2	410.5	336.5	260.0	201.7	166.8	141.5	128.1	125.7
130°	420.6	406.2	372.3	315.4	264.3	218.9	185.9	157.7	134.8	124.7	123.3
132.5°	371.8	358.9	310.7	263.3	229.4	194.5	166.8	140.0	120.4	113.7	112.8
135°	307.3	293.0	261.0	231.8	206.9	178.7	151.0	128.1	114.2	110.9	110.4
137.5°	262.4	255.7	231.8	211.2	188.8	164.4	141.5	123.8	115.2	112.3	111.8
140°	226.5	225.1	210.3	192.1	169.7	143.9	126.2	115.7	112.3	110.9	110.4
142.5°	200.3	198.3	182.1	161.1	141.0	127.6	120.9	117.6	114.7	110.9	109.9
145°	173.5	170.1	160.1	151.0	144.8	140.5	134.3	123.8	112.8	107.1	106.6
147.5°	197.4	191.7	180.7	167.8	154.4	140.5	127.6	116.6	107.5	104.2	103.7
150°	165.8	165.4	158.2	148.2	138.1	125.7	116.1	109.0	105.1	104.7	104.7
152.5°	128.6	128.6	128.6	126.2	121.4	114.7	107.5	103.2	103.2	105.1	105.6
155°	120.9	121.4	121.9	120.9	117.1	110.9	104.7	102.8	103.2	105.1	105.6
157.5°	115.2	115.2	115.7	114.7	112.8	108.5	104.2	102.3	102.8	103.7	104.2
160°	108.5	108.5	109.0	109.0	107.1	105.6	103.7	102.3	102.3	102.8	103.2
162.5°	106.1	106.1	106.1	106.1	105.6	105.6	105.6	105.6	105.1	105.1	105.1
165°	107.1	107.1	105.6	105.1	106.1	107.5	109.9	110.4	108.0	107.5	107.5
167.5°	111.8	111.8	110.4	109.4	110.9	112.3	115.7	116.6	114.7	112.8	112.8
170°	114.7	114.7	114.7	115.2	115.7	117.1	119.0	120.0	119.5	119.0	119.0
172.5°	116.6	116.6	117.6	118.5	120.0	120.9	121.9	122.8	123.8	123.8	124.3
175°	120.4	120.9	121.9	122.4	123.3	124.3	125.2	126.2	126.7	126.7	126.7
177.5°	124.3	124.3	124.3	124.7	125.2	125.7	126.2	126.7	126.7	127.1	127.6
180°	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

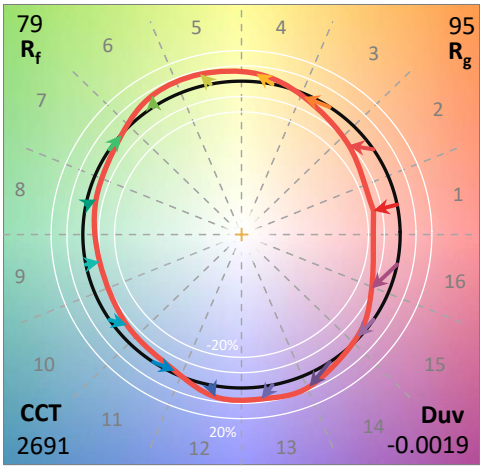
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

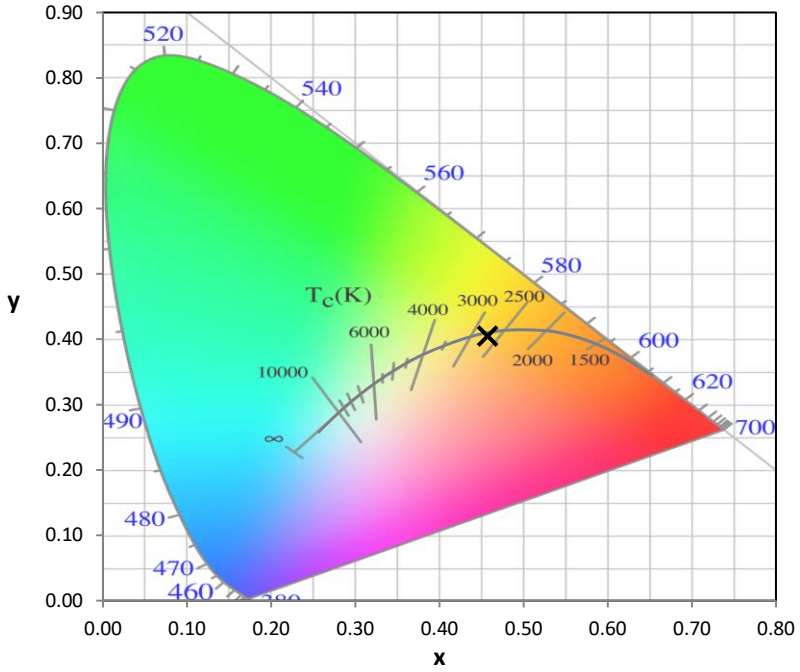
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

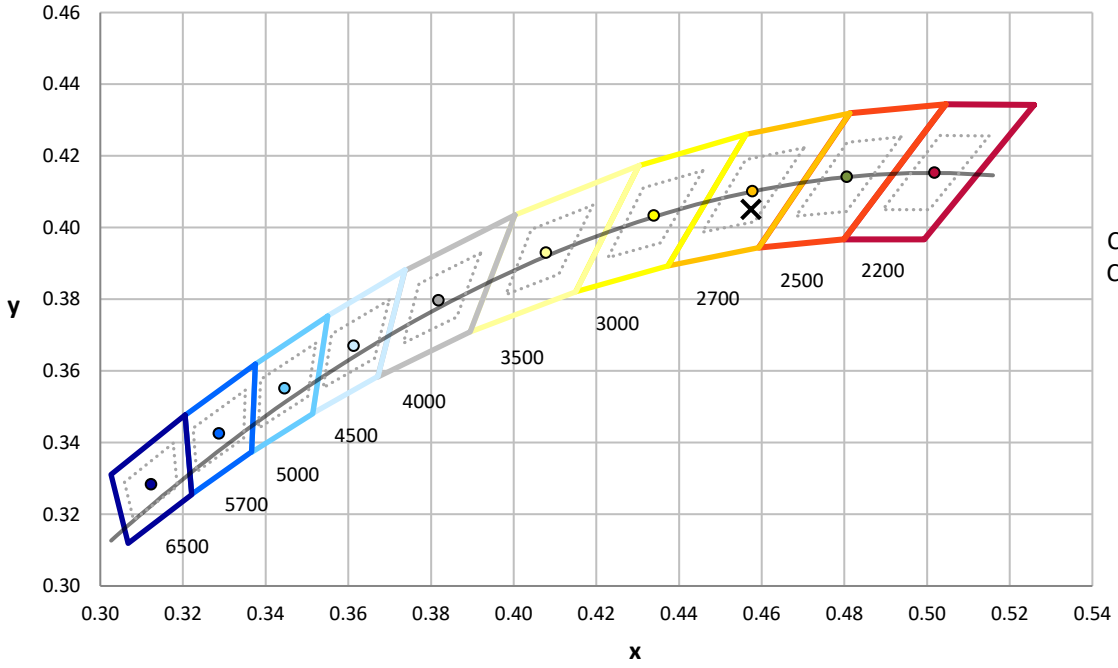
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

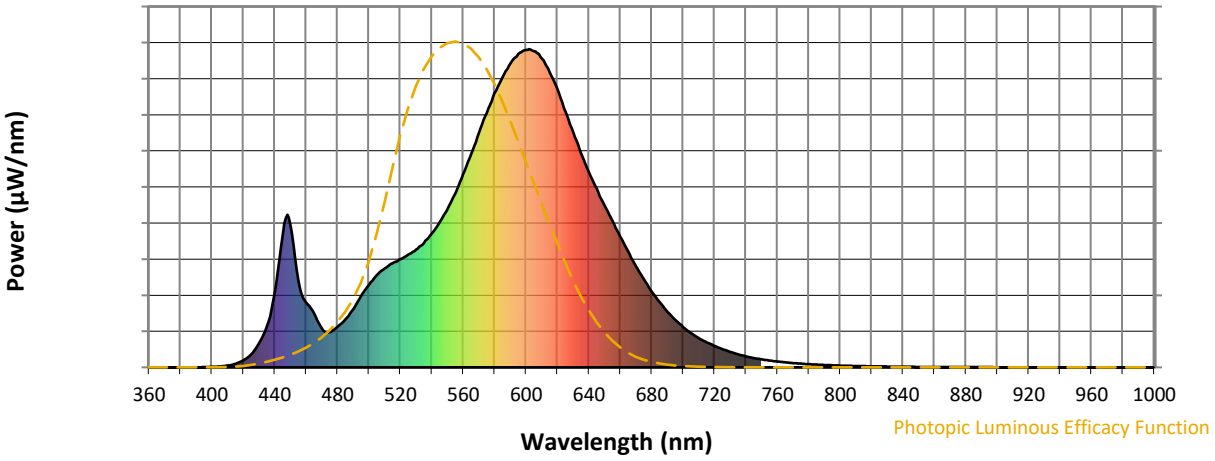


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

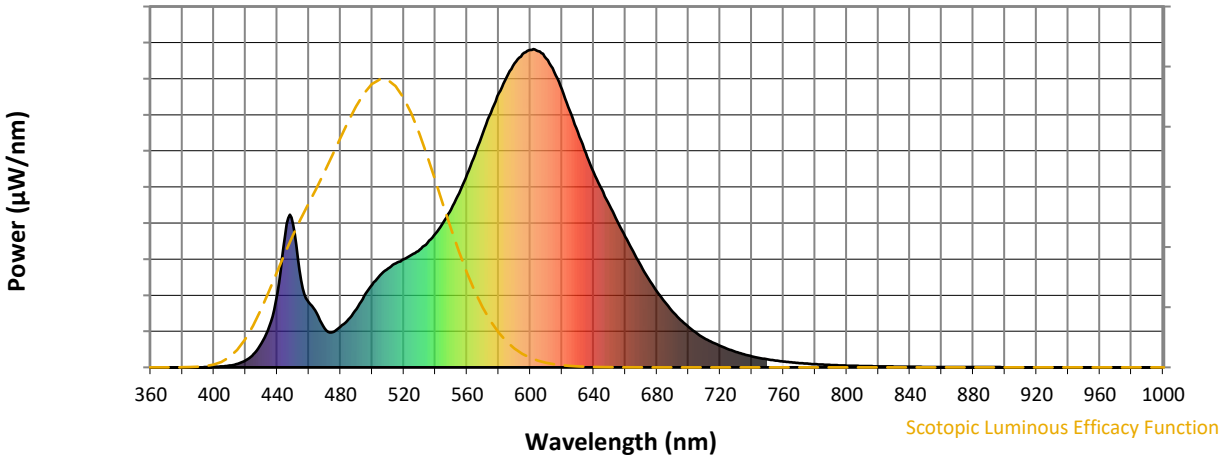


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

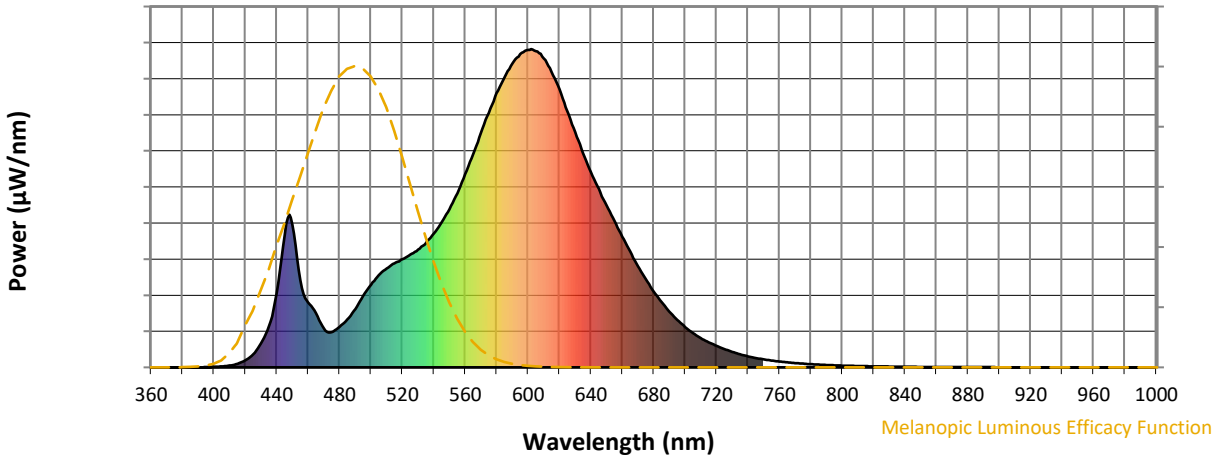


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

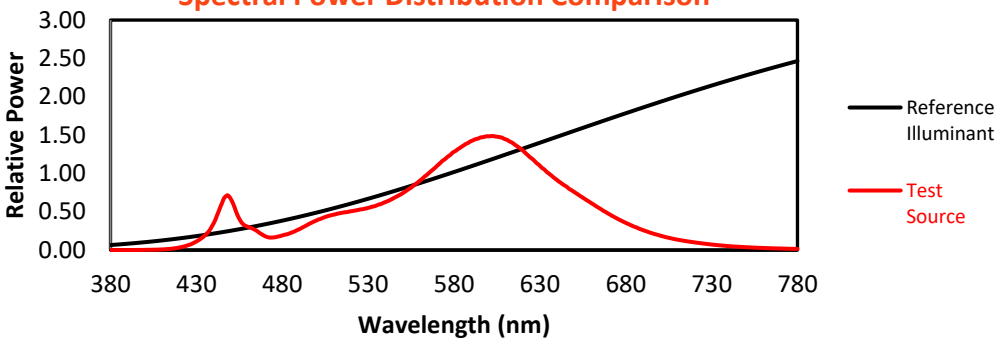
REPORT NUMBER: SP1-2501-332-8

TM-30-18

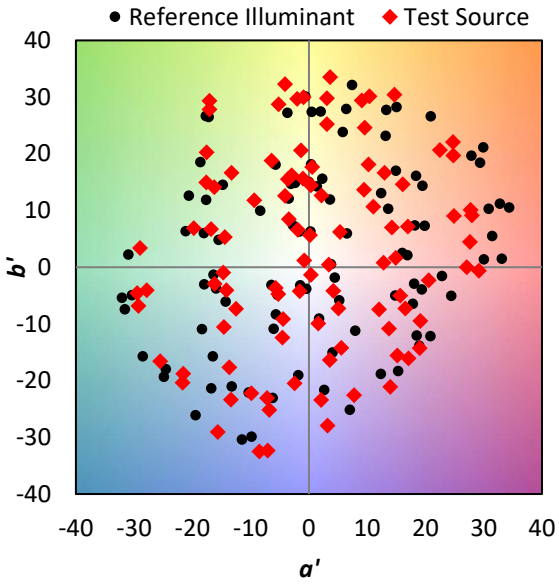
Summary

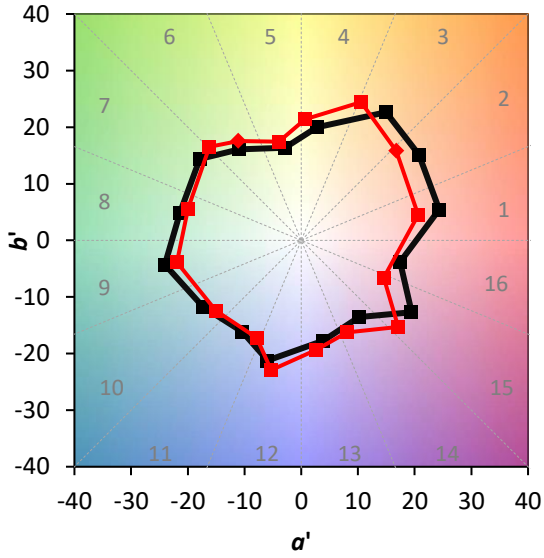
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

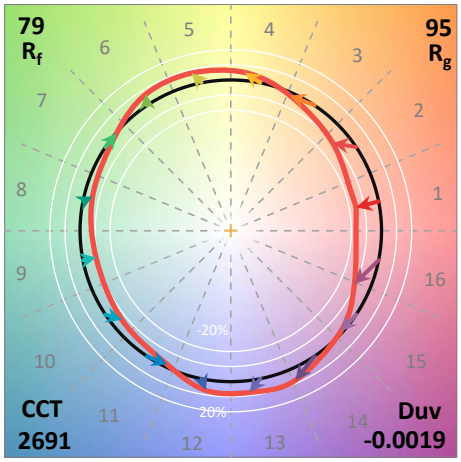
Spectral Power Distribution Comparison

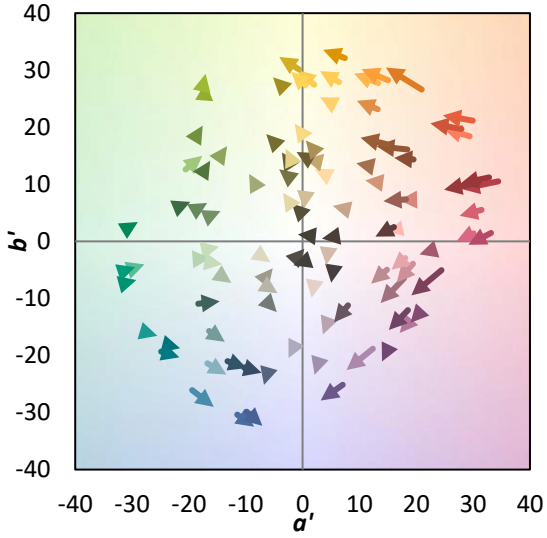


Color Vector Graphics







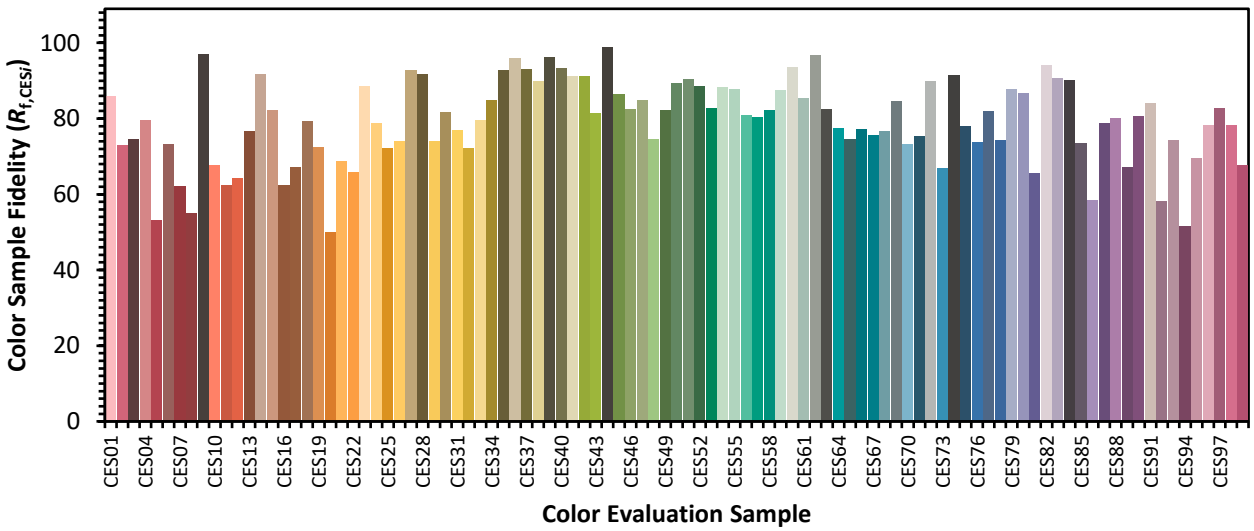


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

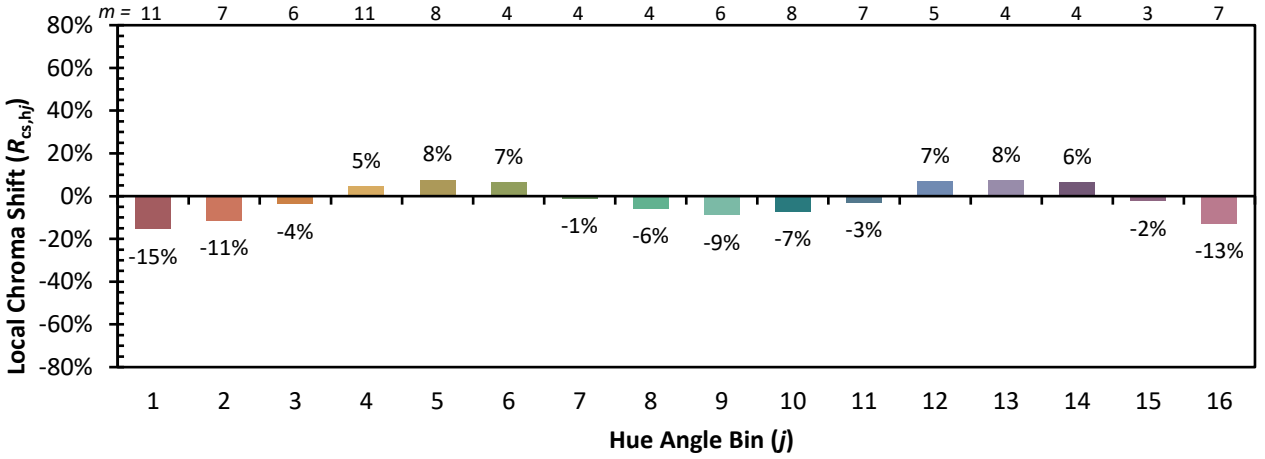
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

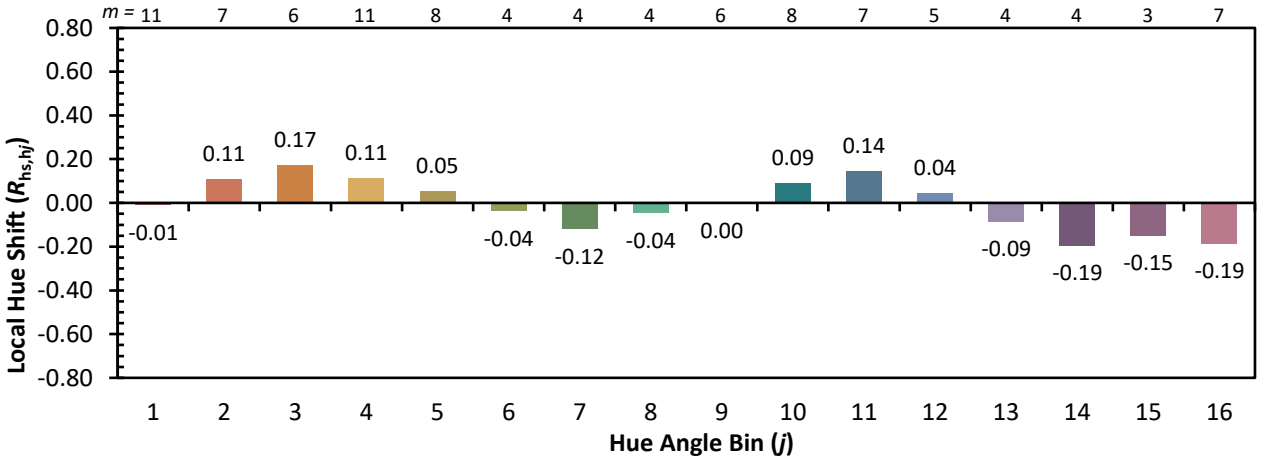


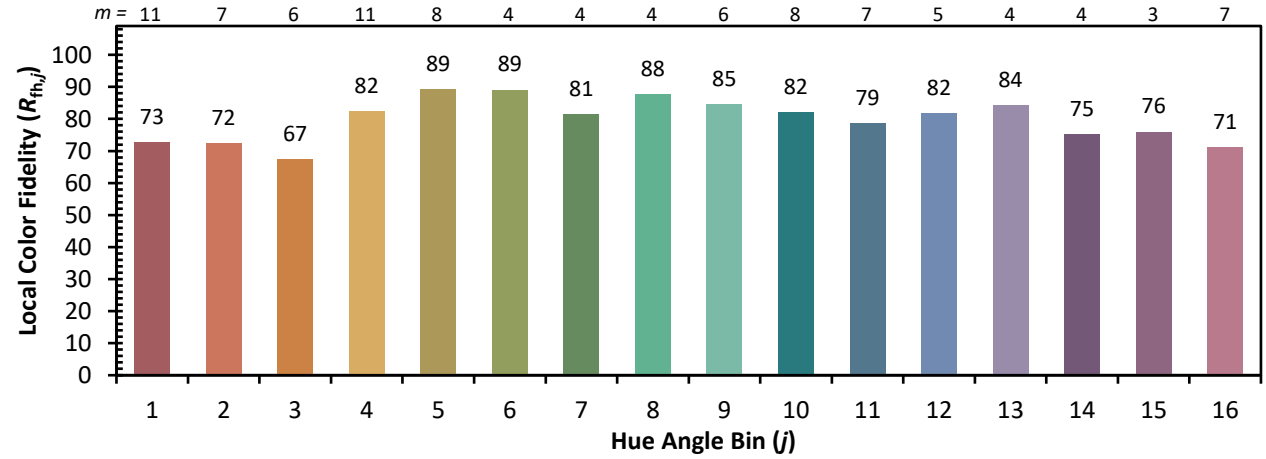
REPORT NUMBER: SP1-2501-332-8

TM-30-18

Color Rendition by Hue-Angle Bin



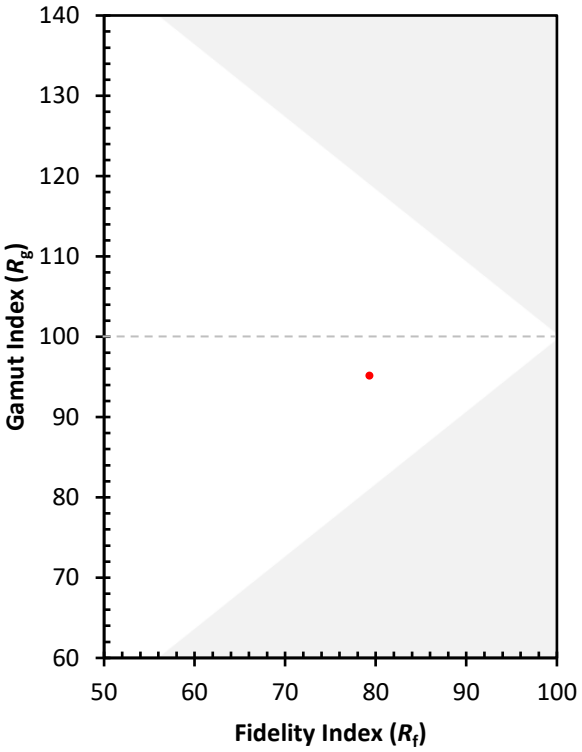


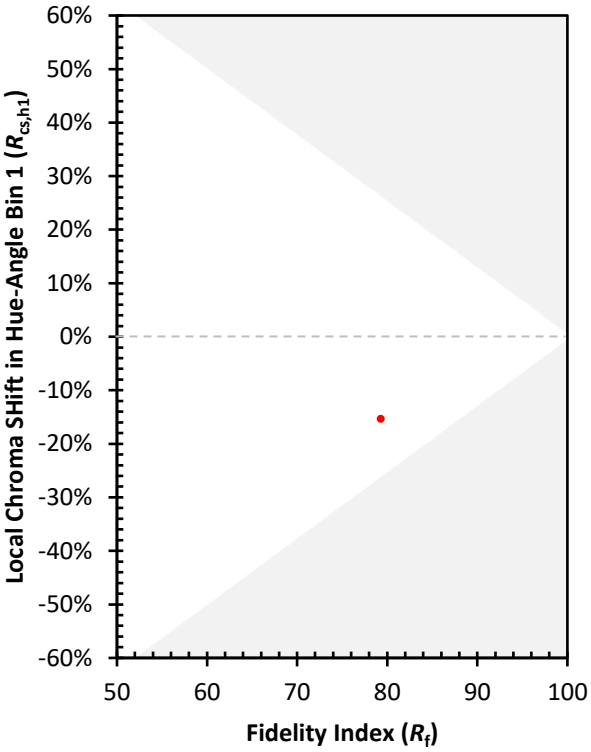


REPORT NUMBER: SP1-2501-332-8

TM-30-18

Measure Comparisons





(END OF REPORT)