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: P1046197

Luminaire Tested: **FFX-CLB-40-727-U-FR-T4-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:	P1046197
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-727-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5451.5 lumens
Efficiency:	N/A
Efficacy:	138.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

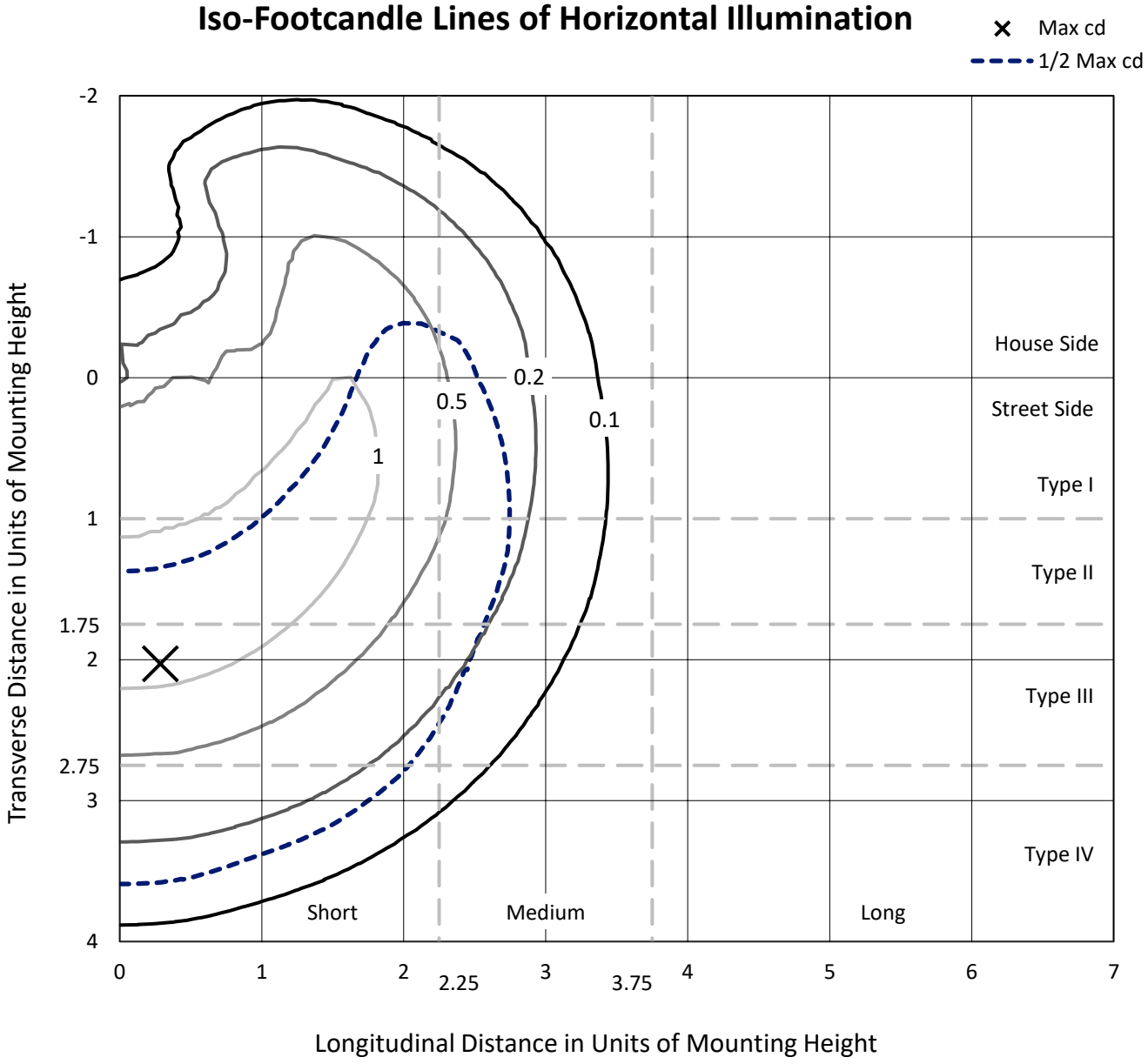


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CATALOG NUMBER: FFX-CLB-40-727-U-FR-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



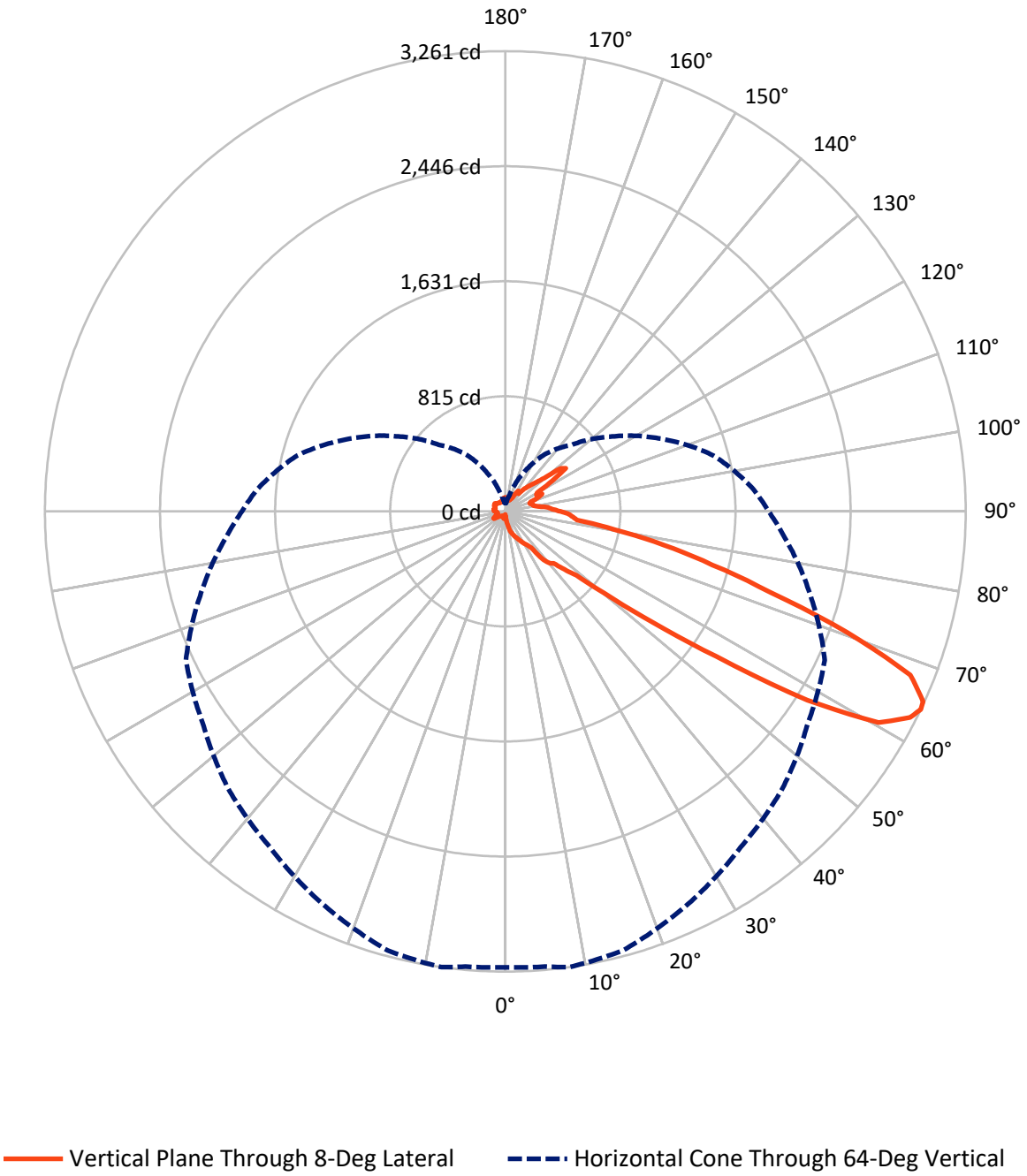
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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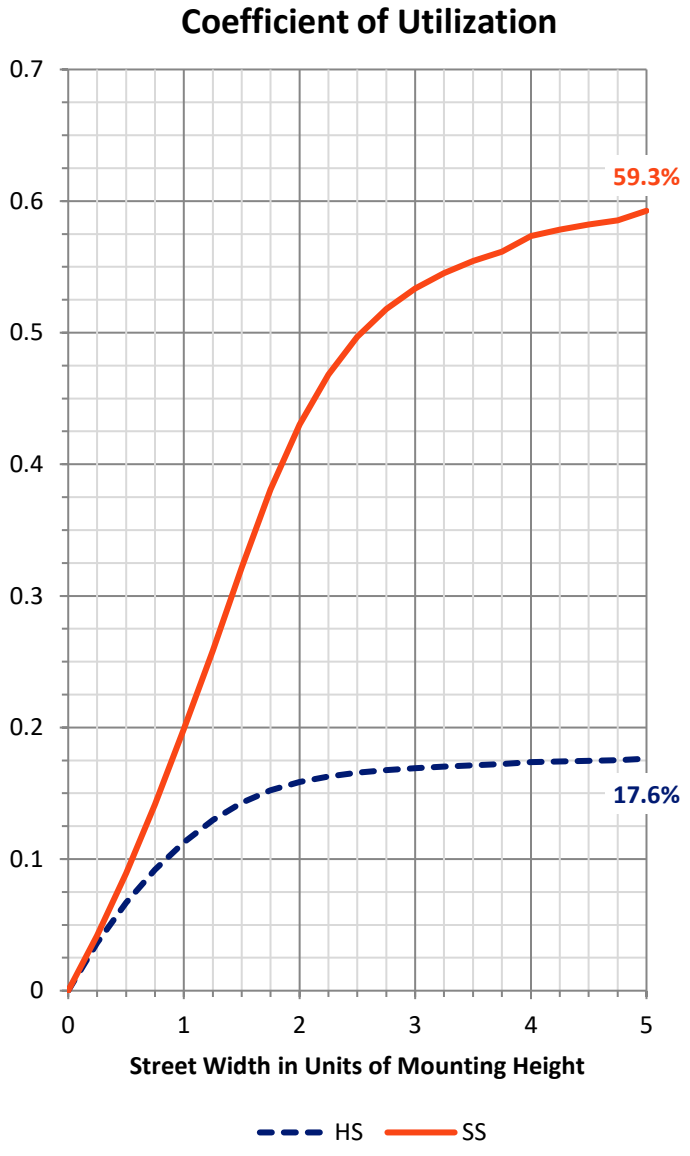
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	997.0	372.4	1369.4
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	3369.0	713.1	4082.1
	% Fixture	61.8	13.1	74.9
Total	Lumens	4366.0	1085.6	5451.5
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	30.0	0.6
20°-30°	65.2	1.2
30°-40°	130.2	2.4
40°-50°	281.9	5.2
50°-60°	977.2	17.9
60°-70°	1643.7	30.2
70°-80°	893.8	16.4
80°-90°	338.3	6.2
90°-100°	213.5	3.9
100°-110°	144.0	2.6
110°-120°	155.8	2.9
120°-130°	256.4	4.7
130°-140°	157.9	2.9
140°-150°	82.6	1.5
150°-160°	43.0	0.8
160°-170°	23.4	0.4
170°-180°	8.8	0.2
0°-90°	4366.0	80.1
0°-180°	5451.5	100.0



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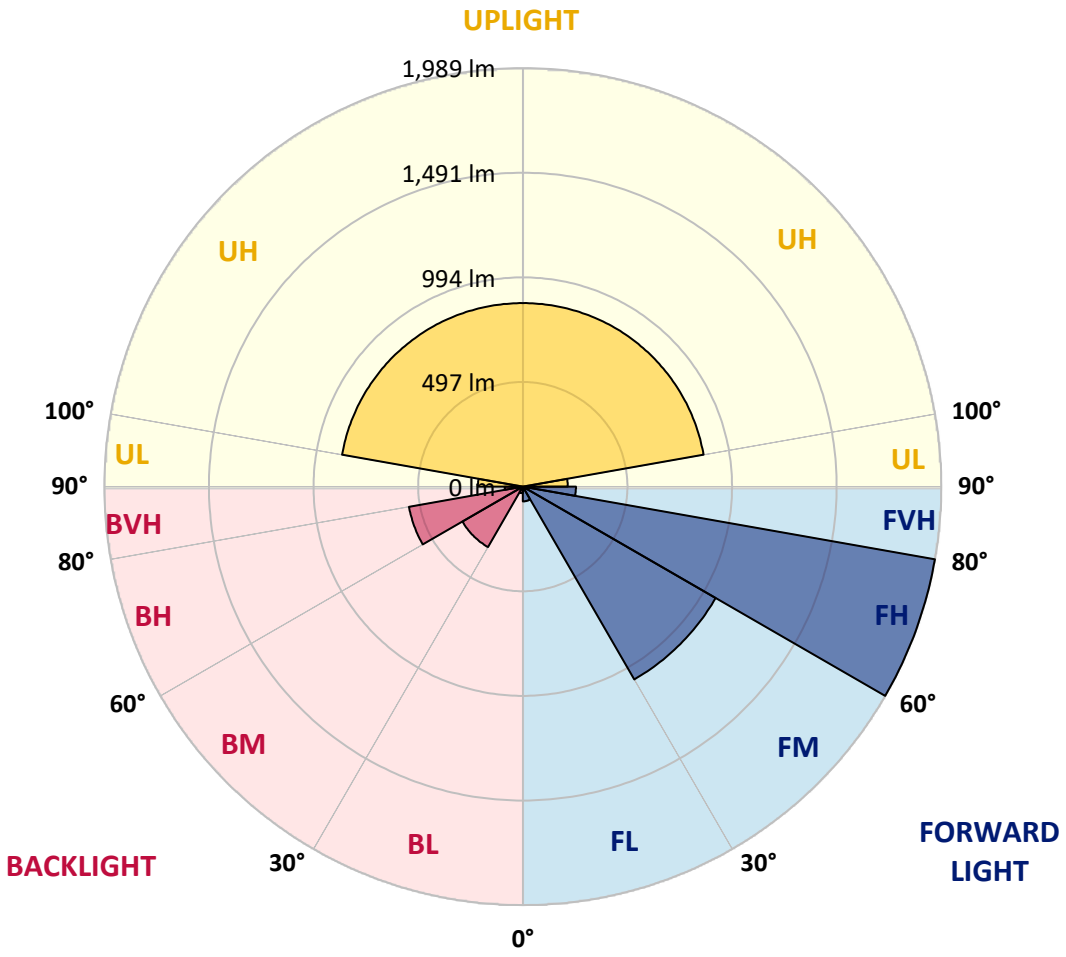
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	70.1	1.3			
FM	(30°-60°)	1058.0	19.4			
FH	(60°-80°)	1988.5	36.5			G2/5000
FVH	(80°-90°)	252.4	4.6			G3/500
BL	(0°-30°)	30.6	0.6	B0/110		
BM	(30°-60°)	331.4	6.1	B1/1000		
BH	(60°-80°)	549.1	10.1	B2/1000		G2/1000
BVH	(80°-90°)	86.0	1.6			G1/100
UL	(90°-100°)	213.5	3.9		U3/500	
UH	(100°-180°)	872.1	16.0		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
2.5°	38.1	38.1	38.1	39.2	39.9	40.3	39.2	38.4	38.1	37.7	36.6
5°	54.6	55.0	55.0	56.2	55.4	56.2	54.6	53.5	51.6	49.4	47.5
7.5°	77.3	77.3	76.9	77.3	76.9	75.4	75.4	76.5	73.5	69.0	64.8
10°	104.8	105.5	105.1	103.6	101.4	99.5	99.5	101.0	96.5	88.6	82.5
12.5°	132.7	134.2	132.7	133.0	129.3	127.8	124.7	124.0	118.0	110.4	99.9
15°	153.4	154.5	154.9	156.0	155.6	150.7	145.5	139.8	134.9	128.1	117.2
17.5°	170.0	170.3	171.1	170.7	168.5	163.6	157.5	151.5	143.6	136.4	126.3
20°	186.2	187.7	187.3	186.9	185.8	182.0	174.9	166.2	159.4	148.9	138.3
22.5°	202.8	201.6	202.4	202.0	202.0	198.2	190.7	180.5	171.5	160.9	151.5
25°	222.0	221.6	222.0	220.8	219.3	217.5	208.0	196.3	186.2	175.2	162.1
27.5°	242.3	242.7	243.1	241.2	239.3	236.3	222.7	211.0	200.1	186.5	168.1
30°	264.9	263.8	264.2	261.5	260.4	251.0	237.8	223.9	211.8	193.7	175.6
32.5°	285.7	283.8	283.4	281.1	279.3	265.7	252.1	238.6	224.2	205.8	189.9
35°	314.7	318.5	316.9	316.9	321.8	301.1	285.3	272.1	256.6	237.4	220.8
37.5°	433.0	432.3	427.7	421.7	404.8	390.1	382.9	362.2	337.3	316.2	289.8
40°	490.3	488.0	483.1	471.1	459.0	441.7	430.8	417.9	405.1	367.8	325.6
42.5°	503.9	502.0	503.1	517.4	533.3	520.5	477.9	431.5	408.9	383.7	362.5
45°	578.1	584.5	586.4	586.0	574.7	561.2	542.7	514.8	475.6	439.8	395.7
47.5°	672.3	671.6	676.1	670.1	679.5	655.7	632.0	603.0	562.3	513.7	460.9
50°	918.8	910.9	912.0	914.3	900.0	882.6	861.1	844.9	765.4	696.4	616.2
52.5°	1310.4	1311.5	1303.2	1302.8	1260.2	1226.7	1189.0	1190.5	1073.7	981.0	864.9
55°	1841.7	1842.5	1812.7	1837.2	1789.4	1784.8	1701.6	1594.1	1437.0	1310.7	1193.9
57.5°	2503.5	2526.1	2523.5	2479.8	2406.7	2367.1	2232.6	2119.9	1897.5	1699.3	1540.6
60°	3067.3	3056.8	3039.4	3006.3	2787.3	2695.4	2596.2	2500.1	2315.8	2041.5	1804.1
62.5°	3228.2	3220.3	3217.3	3200.7	3027.7	2876.2	2751.5	2594.4	2471.1	2202.0	1960.1
64°	3230.9	3238.0	3261.4	3221.8	3068.1	2906.4	2777.1	2616.6	2496.7	2231.4	1978.9
65°	3224.8	3223.3	3252.7	3202.6	3066.2	2904.9	2761.3	2607.5	2488.8	2223.5	1974.0
67.5°	3063.2	3056.8	3094.5	3030.0	2910.9	2765.4	2624.5	2459.4	2355.0	2100.3	1858.7
70°	2513.7	2513.3	2572.1	2518.2	2482.8	2328.7	2184.7	2033.2	1921.6	1712.5	1510.5
72.5°	1926.2	1922.8	1962.0	1921.6	1903.6	1830.8	1696.3	1562.5	1456.2	1299.4	1135.9
75°	1535.0	1536.5	1515.8	1476.2	1461.5	1429.1	1369.2	1289.3	1200.3	1057.9	907.1
77.5°	1149.4	1141.9	1151.0	1095.6	1091.4	1081.6	1081.2	1030.0	954.6	863.8	744.3
80°	766.2	770.7	786.9	772.2	776.3	773.0	794.1	739.8	682.5	629.0	565.3
82.5°	495.6	507.6	512.2	532.5	550.2	558.1	529.1	474.5	438.7	419.1	390.8
85°	475.6	480.5	477.9	465.8	459.8	450.0	449.6	432.3	413.8	376.1	330.1
87.5°	438.7	444.3	442.1	431.5	417.9	416.8	414.2	402.1	393.4	363.7	323.0
90°	374.2	374.6	376.5	374.6	372.0	370.1	355.0	347.8	342.6	316.9	289.4
92.5°	324.5	329.0	327.9	324.5	315.8	321.1	304.9	291.3	288.3	270.6	249.5
95°	298.1	301.1	301.9	295.8	287.5	285.7	273.2	262.7	257.8	246.1	220.5
97.5°	247.2	245.3	243.8	242.3	236.7	230.6	222.7	209.5	205.4	192.6	178.3
100°	211.0	211.8	211.0	209.9	205.0	202.0	196.3	185.8	181.3	173.0	163.2
102.5°	201.2	201.6	201.6	202.0	193.7	186.9	180.9	173.4	169.2	162.1	152.6
105°	192.2	192.2	193.0	193.3	185.0	175.2	166.6	162.4	160.5	152.3	142.5
107.5°	180.9	180.5	181.6	176.8	168.5	164.3	155.3	150.4	149.6	143.2	133.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	197.5	193.3	*192.6*	180.5	169.2	159.8	155.3	150.7	148.1	139.4	133.0
112.5°	258.5	252.9	*251.4*	240.1	200.5	197.1	193.0	191.4	189.9	178.3	167.3
115°	284.9	284.9	*289.4*	284.9	257.4	226.1	221.6	214.8	217.5	203.1	187.3
117.5°	228.0	243.8	*248.4*	234.8	235.9	215.9	185.0	174.5	169.2	165.1	172.2
120°	255.9	266.4	*261.9*	237.0	225.7	214.1	215.6	211.8	193.0	167.0	169.6
122.5°	381.4	391.2	*394.6*	396.5	401.7	393.8	376.1	351.2	332.4	301.1	283.4
125°	534.0	526.9	*526.1*	529.5	533.6	523.5	515.9	511.0	499.3	458.3	400.6
127.5°	490.3	486.9	*492.6*	491.8	502.0	484.7	481.3	483.9	479.4	456.4	422.8
130°	351.6	357.6	*361.8*	375.4	395.3	379.9	365.6	344.1	342.6	353.9	336.2
132.5°	295.1	297.7	*305.3*	323.0	338.0	331.6	310.5	289.8	288.3	297.7	296.2
135°	260.8	262.7	*263.8*	264.6	261.9	268.0	263.4	255.9	251.0	251.4	246.8
137.5°	232.9	233.7	*232.9*	226.9	219.7	218.6	229.9	230.3	225.7	217.8	211.8
140°	202.0	202.0	*199.0*	194.8	193.7	194.1	200.5	201.6	196.3	189.9	180.9
142.5°	157.9	156.0	*156.4*	163.2	175.2	172.6	164.3	153.8	152.3	159.8	156.8
145°	170.7	170.3	*169.2*	169.6	166.6	161.7	158.7	155.3	149.2	144.3	139.4
147.5°	172.2	170.7	*171.5*	170.0	168.5	166.2	165.1	166.6	165.1	161.7	155.3
150°	136.0	136.8	*137.6*	135.7	137.2	137.9	137.2	136.0	137.9	133.8	131.1
152.5°	106.3	105.9	*105.5*	106.3	105.9	107.4	107.8	107.4	106.7	106.3	102.1
155°	99.9	101.0	*100.2*	98.0	99.5	100.6	102.1	103.3	102.1	100.2	96.5
157.5°	92.0	92.0	*92.0*	92.0	92.3	92.7	94.6	95.3	95.3	94.2	91.6
160°	85.5	85.9	*85.9*	85.9	86.7	87.4	88.6	89.3	90.1	89.3	87.8
162.5°	81.8	81.4	*81.4*	81.8	81.8	82.9	84.0	85.5	85.9	85.2	85.2
165°	79.5	79.5	*79.5*	79.9	80.6	81.4	82.9	83.3	83.7	84.4	84.4
167.5°	82.2	82.2	*82.2*	82.5	83.3	84.4	85.2	85.9	87.4	87.8	87.8
170°	86.3	86.3	*86.3*	86.7	87.1	87.4	87.8	88.6	88.9	89.7	89.3
172.5°	90.4	90.1	*90.4*	90.4	90.4	90.4	90.4	90.8	91.2	91.2	91.2
175°	95.0	95.0	*95.3*	95.0	94.2	94.2	94.2	94.6	94.6	94.6	94.2
177.5°	99.5	99.5	*99.1*	99.5	99.1	98.7	98.4	98.0	97.2	97.2	96.5
180°	96.9	96.9	*96.9*	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
2.5°	35.8	34.3	32.4	30.1	27.9	26.4	24.9	23.0	21.9	21.5	21.5
5°	45.2	44.1	42.2	39.2	37.3	33.9	30.9	29.0	27.1	25.3	23.7
7.5°	63.3	62.9	64.1	66.3	63.3	55.4	47.1	42.6	43.0	45.2	46.4
10°	79.5	77.3	77.6	82.9	78.0	62.9	51.6	47.5	49.7	54.3	55.0
12.5°	96.5	93.1	90.4	89.3	78.4	61.4	51.3	46.4	47.5	51.3	51.3
15°	111.9	107.8	101.8	93.8	81.0	66.0	53.5	46.4	46.4	46.0	45.2
17.5°	120.6	116.1	105.1	92.7	78.8	65.2	52.4	45.2	41.5	38.4	38.1
20°	134.2	131.9	118.0	100.2	81.0	63.7	50.5	43.3	39.2	36.9	36.2
22.5°	147.4	140.9	122.9	104.8	82.9	63.3	49.7	43.0	39.2	37.3	36.6
25°	154.5	146.6	128.5	110.0	85.5	63.7	50.5	43.7	39.6	37.7	37.3
27.5°	160.2	151.9	134.9	114.9	88.9	65.2	52.8	44.8	40.3	38.1	37.7
30°	167.7	159.8	142.5	121.0	92.0	68.6	55.4	46.7	41.5	39.2	38.8
32.5°	182.0	172.2	151.9	126.3	95.7	72.0	58.8	49.7	43.3	39.9	39.9
35°	211.8	201.2	174.1	140.6	99.9	74.6	61.1	51.6	44.8	41.1	40.7
37.5°	274.4	261.2	228.0	176.0	110.0	78.4	63.7	52.8	45.6	42.2	41.5
40°	304.5	280.0	242.7	196.7	127.0	84.4	67.8	55.4	46.7	42.6	42.2
42.5°	341.1	320.7	269.5	202.0	140.9	98.4	75.0	59.2	49.0	43.3	43.0
45°	376.9	356.9	311.3	245.7	169.6	120.2	86.7	65.6	52.4	45.2	44.1
47.5°	439.4	406.6	352.0	287.5	208.8	152.3	106.7	74.6	58.0	47.5	46.0
50°	594.3	572.8	489.2	390.4	271.7	198.2	145.1	95.7	64.4	49.0	46.7
52.5°	801.6	760.9	665.9	544.9	394.2	294.3	212.2	142.1	79.1	50.5	47.5
55°	1129.8	1066.5	957.2	747.7	565.7	446.2	332.0	233.3	120.6	53.9	47.9
57.5°	1480.7	1423.4	1293.0	1033.4	766.5	568.3	437.2	329.4	169.2	61.4	52.0
60°	1715.5	1615.6	1466.8	1215.8	926.7	668.2	489.2	345.6	175.6	62.9	54.3
62.5°	1850.0	1746.8	1526.7	1238.4	955.4	690.4	511.8	316.6	140.2	61.1	56.5
64°	*1865.9*	*1766.4*	*1527.4*	*1216.9*	*924.8*	*667.4*	*496.0*	*297.0*	*121.7*	*60.3*	*57.7*
65°	1853.4	1761.5	1509.0	1191.3	883.8	637.7	477.1	277.4	108.2	59.5	58.0
67.5°	1732.5	1651.8	1387.2	1080.5	785.8	550.6	391.6	213.3	84.8	58.0	57.3
70°	1403.1	1366.1	1140.4	871.7	621.1	439.0	308.7	163.2	72.0	56.5	55.8
72.5°	1052.6	1005.9	851.0	665.2	483.9	341.4	234.4	125.5	63.7	55.0	54.3
75°	843.8	798.2	674.6	523.8	359.9	255.1	173.4	93.8	59.9	54.6	53.9
77.5°	697.6	661.0	554.7	398.7	255.9	182.8	127.4	76.5	58.8	55.0	54.3
80°	536.7	530.6	433.4	290.2	181.3	136.4	102.9	71.6	59.2	56.5	55.8
82.5°	376.5	361.4	306.0	215.9	156.8	124.7	98.7	72.7	62.2	59.9	59.5
85°	310.2	298.5	261.9	207.7	149.2	120.6	97.6	74.6	65.2	63.3	62.6
87.5°	306.8	294.0	259.3	198.6	141.7	114.9	93.1	72.7	64.8	63.7	64.4
90°	278.5	269.1	237.0	183.2	140.6	116.8	97.2	80.3	72.0	68.2	67.5
92.5°	243.8	238.2	215.6	177.9	145.8	123.6	105.9	88.9	81.4	79.1	78.0
95°	212.9	210.7	192.2	161.7	134.5	116.5	100.2	85.5	79.1	76.1	75.8
97.5°	174.5	171.9	157.5	137.6	117.6	102.5	90.4	79.1	74.6	74.2	73.9
100°	159.4	157.5	147.4	134.5	118.7	107.4	96.9	87.4	83.7	83.7	84.0
102.5°	147.4	146.2	137.2	124.0	111.6	101.0	92.3	83.7	79.1	79.1	76.5
105°	137.6	135.7	127.4	116.8	104.0	94.2	85.9	79.5	74.6	73.1	73.1
107.5°	128.9	126.6	119.8	109.7	100.2	90.8	83.3	77.3	73.9	72.7	72.7

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

Scaled Data Report

REPORT NUMBER: P1046197
CATALOG NUMBER: FFX-CLB-40-727-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	129.3	127.4	119.5	108.5	99.9	92.7	86.7	81.0	78.0	75.8	75.8
112.5°	159.0	151.1	137.2	121.0	111.2	101.8	92.3	84.4	80.6	79.9	79.1
115°	180.1	172.2	154.9	133.8	116.1	102.9	93.5	87.4	84.0	86.3	87.4
117.5°	180.9	166.6	133.4	123.2	110.4	99.5	93.1	89.3	87.1	89.3	89.3
120°	184.3	155.3	137.6	133.4	118.3	102.9	95.7	95.0	92.7	88.2	88.2
122.5°	274.0	247.6	219.3	183.5	152.3	137.6	124.7	102.5	92.0	87.1	86.7
125°	377.6	350.1	306.0	258.2	212.9	165.8	123.2	105.1	94.2	88.2	87.1
127.5°	401.4	379.9	321.8	264.6	200.5	154.5	123.6	108.2	97.2	90.8	89.7
130°	323.7	306.8	267.6	220.8	176.4	142.8	120.6	105.1	94.6	88.2	86.7
132.5°	287.9	272.1	233.7	191.1	156.4	130.4	110.4	95.3	84.8	80.3	80.3
135°	240.8	229.9	195.6	170.3	145.5	123.6	104.0	90.1	81.4	78.8	78.8
137.5°	206.5	197.9	173.4	153.4	134.2	115.3	98.4	87.1	81.0	78.4	78.0
140°	176.8	171.1	156.8	137.2	118.7	100.2	87.1	80.6	78.0	76.9	76.5
142.5°	153.8	149.6	136.8	116.5	98.4	87.1	82.2	80.3	77.6	75.0	74.6
145°	134.5	131.1	116.5	104.8	96.1	91.6	87.8	82.2	75.8	72.4	72.0
147.5°	151.1	145.8	133.0	119.5	105.5	95.0	86.7	79.1	73.1	70.9	70.9
150°	130.0	126.3	118.3	107.8	96.1	86.3	79.1	74.2	72.0	71.6	71.6
152.5°	101.0	99.1	96.9	91.6	84.0	77.6	73.1	70.9	71.6	73.1	73.5
155°	95.0	94.2	92.0	87.1	82.2	76.1	72.4	71.2	72.4	73.9	74.2
157.5°	90.4	90.1	88.2	83.7	79.1	75.4	72.7	72.0	73.1	74.2	74.2
160°	86.7	86.3	83.7	80.3	76.9	74.2	72.4	72.4	73.5	74.2	74.2
162.5°	84.4	84.0	82.2	79.5	77.3	75.8	75.4	75.4	75.8	76.1	76.1
165°	84.4	84.0	82.2	79.9	78.4	78.4	79.1	79.5	78.4	77.6	78.0
167.5°	87.8	87.1	84.8	82.9	82.5	82.9	84.0	84.0	83.3	82.2	81.8
170°	88.9	88.6	87.8	87.1	87.1	87.1	87.4	87.8	87.8	88.2	88.2
172.5°	91.2	91.2	90.8	90.8	91.2	90.8	90.8	91.6	92.3	92.7	93.1
175°	94.2	93.8	94.2	94.2	94.6	94.2	93.8	94.6	95.7	96.5	96.5
177.5°	96.5	96.5	96.1	95.7	95.7	95.7	95.7	96.1	96.1	96.1	95.7
180°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9

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

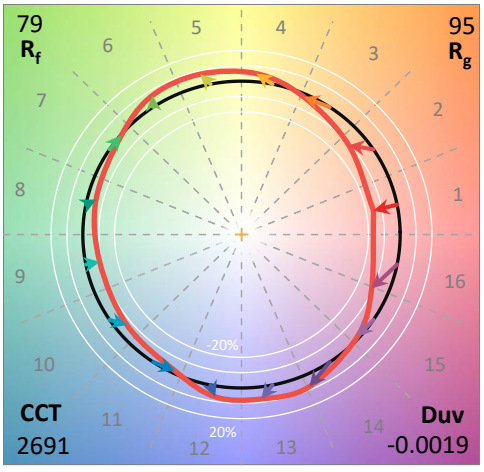
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

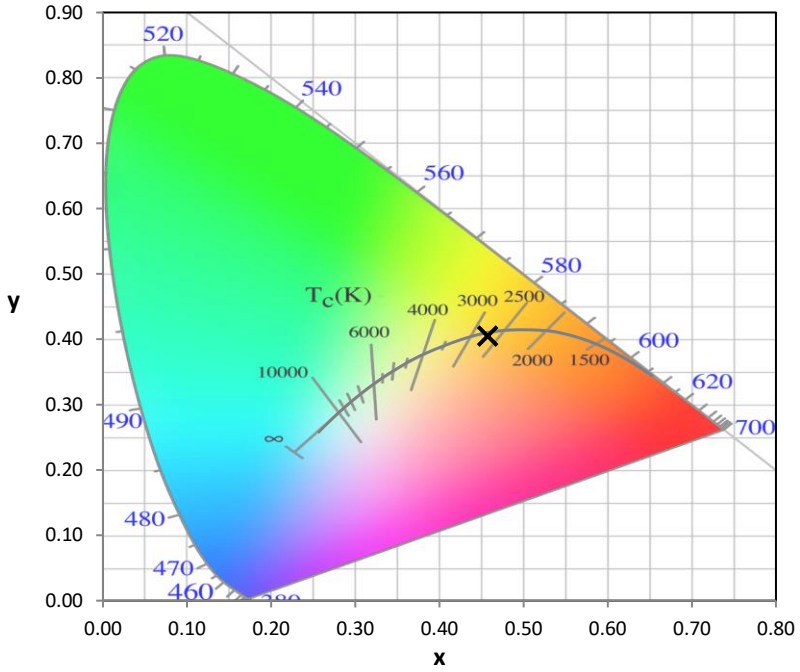
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

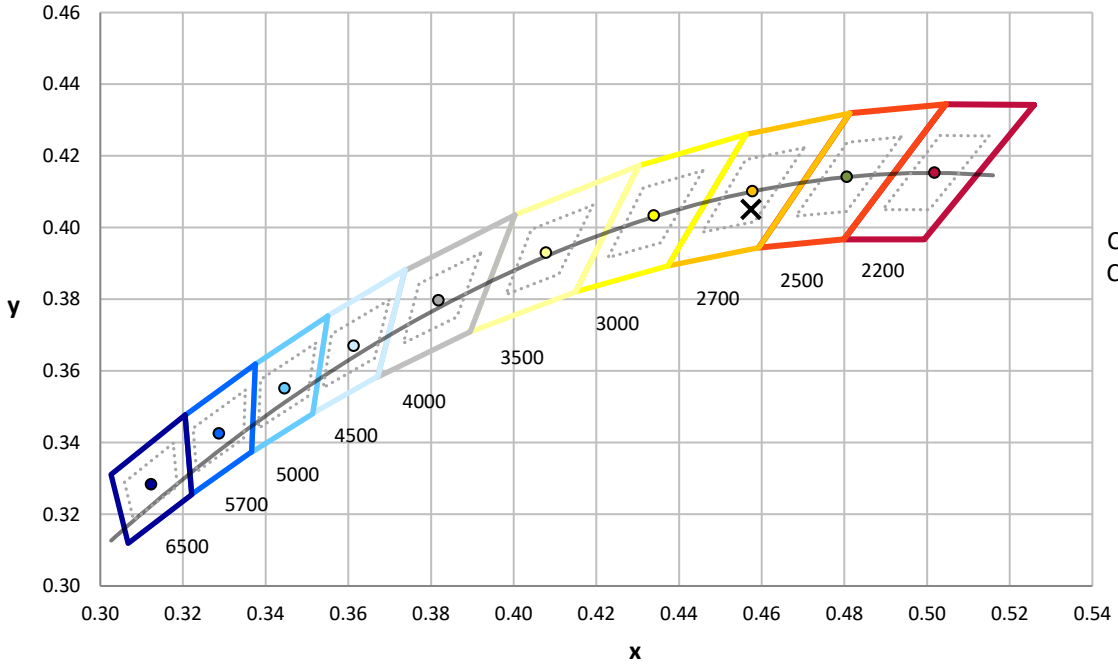
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

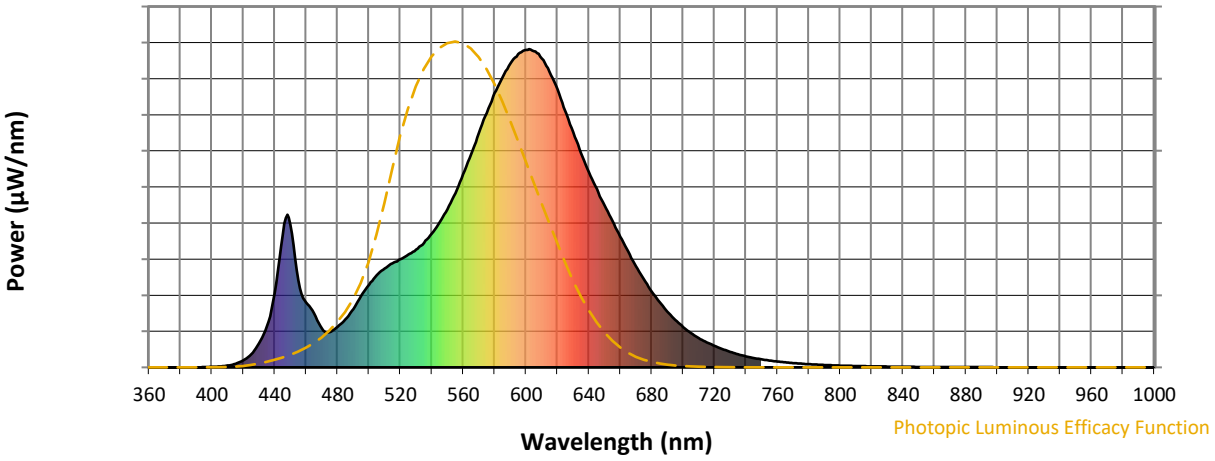


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

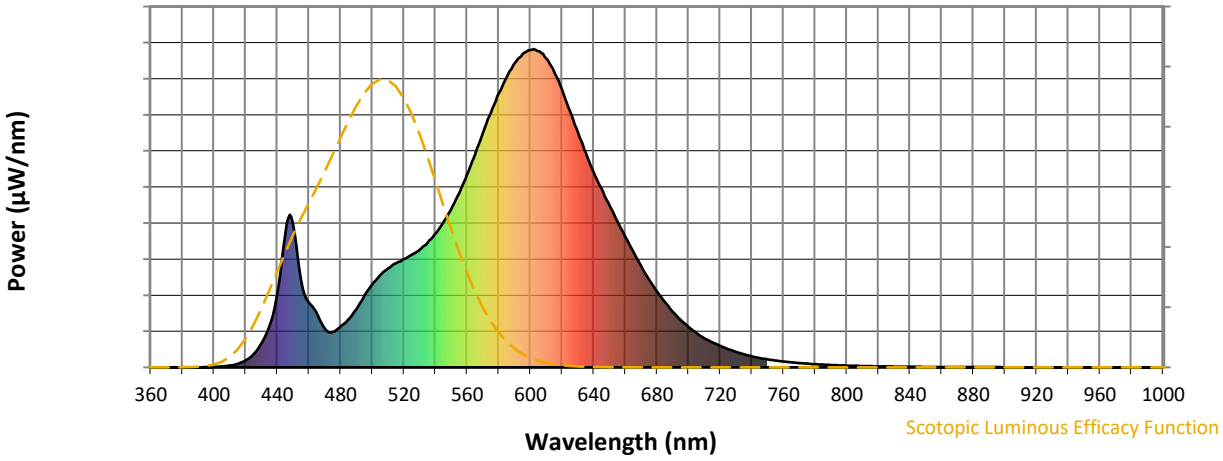


Photopic Lumens: NR

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

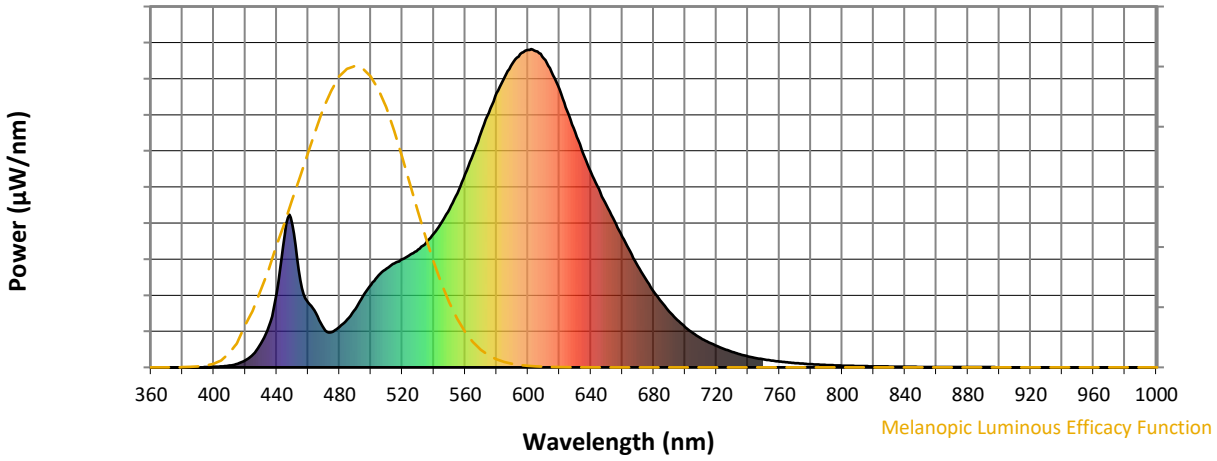


Scotopic Lumens: NR **S/P: 1.18**

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			

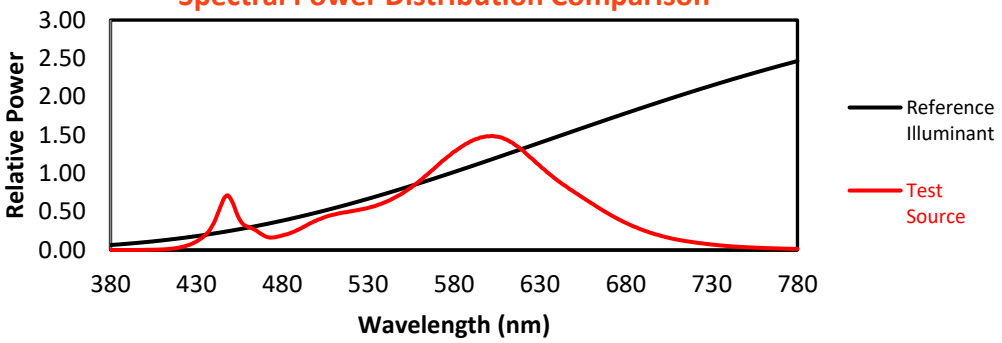
REPORT NUMBER: SP1-2501-332-8

TM-30-18

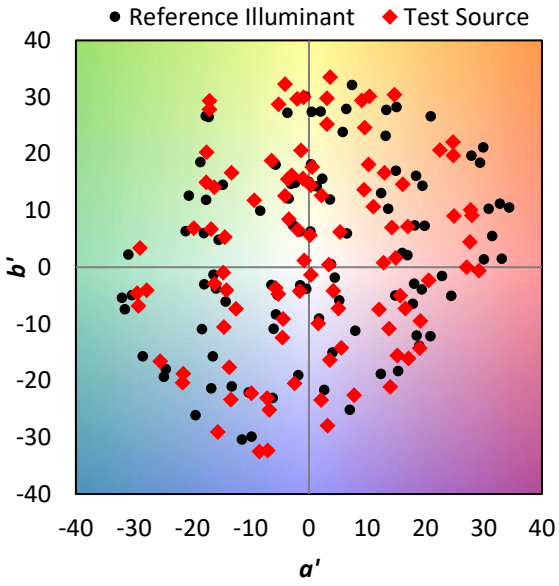
Summary

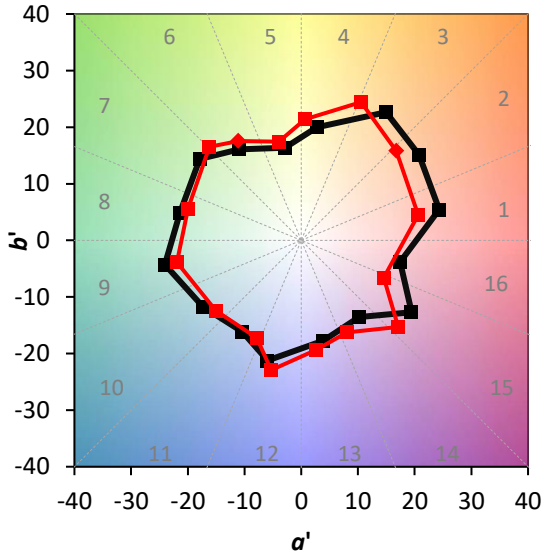
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

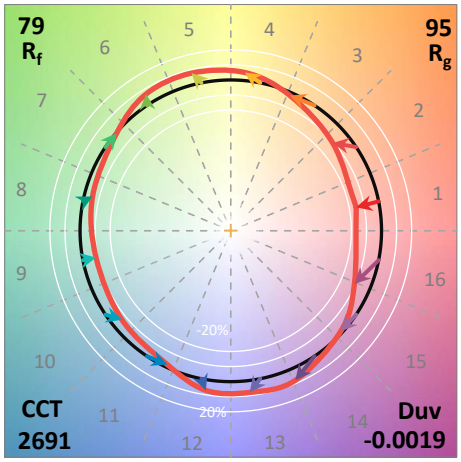
Spectral Power Distribution Comparison

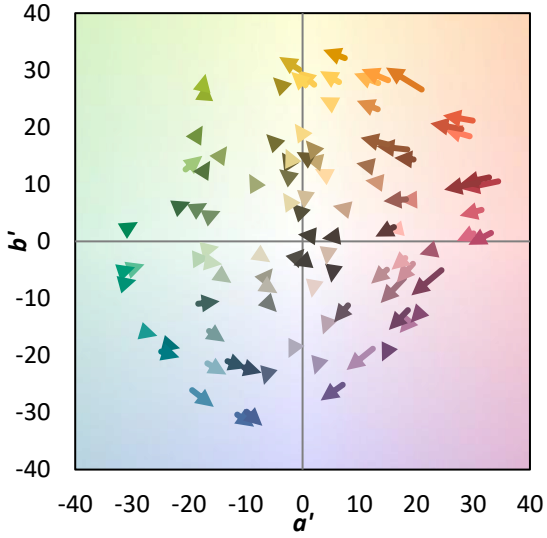


Color Vector Graphics







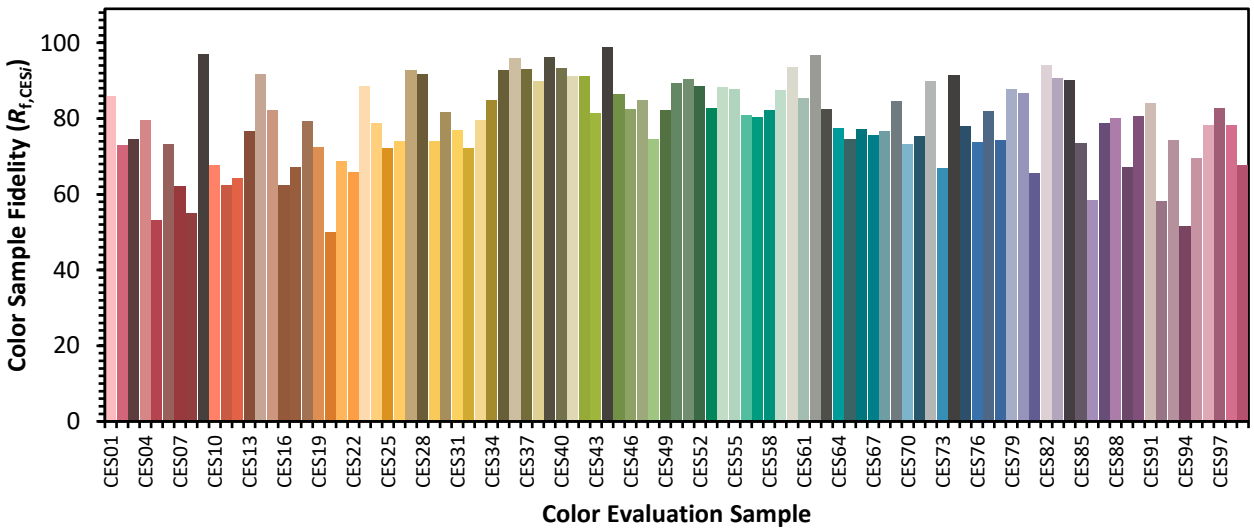


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

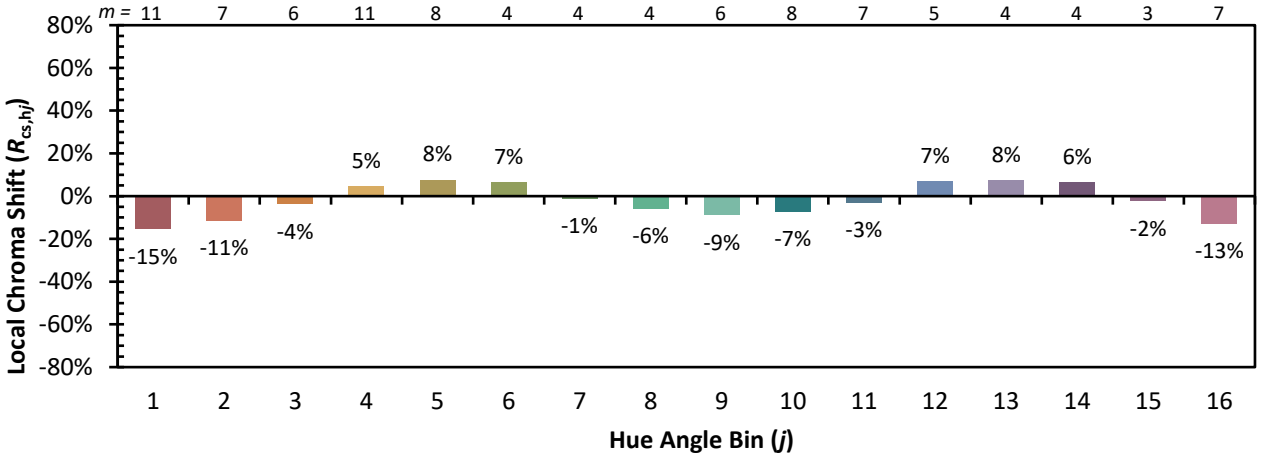
CES01 = 87	CES26 = 74	CES51 = 90	CES76 = 74
CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 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
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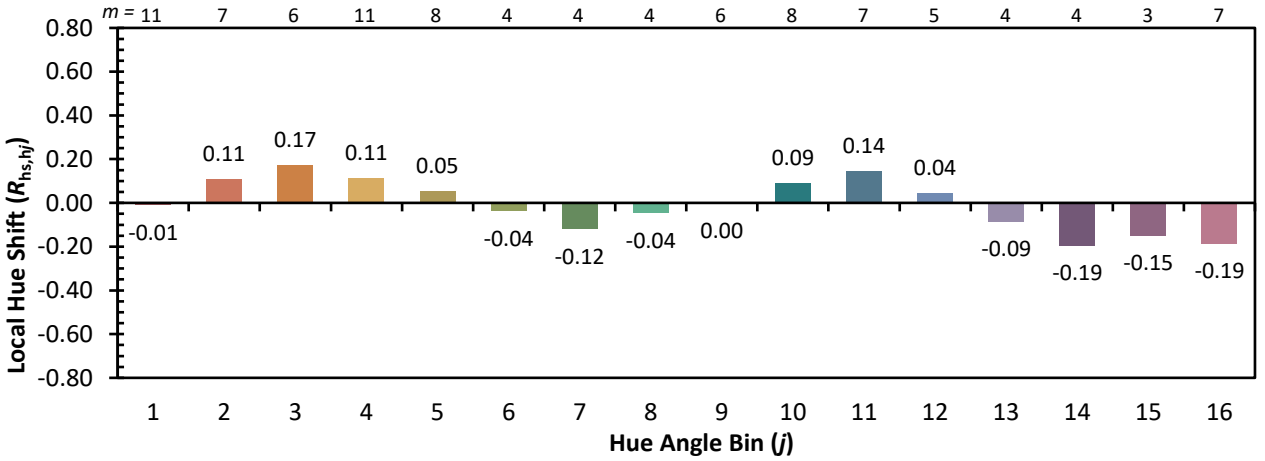


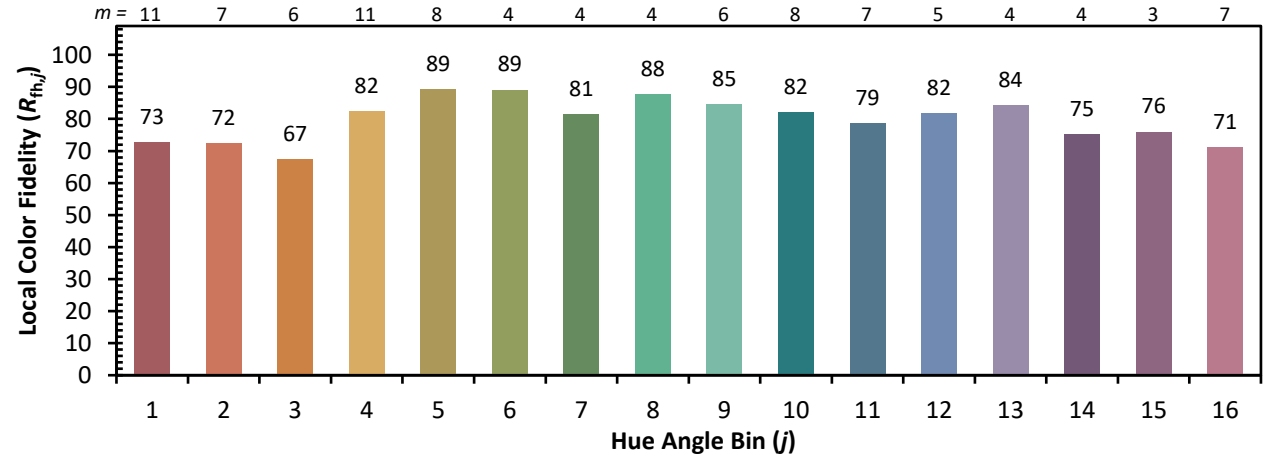
REPORT NUMBER: SP1-2501-332-8

TM-30-18

Color Rendition by Hue-Angle Bin



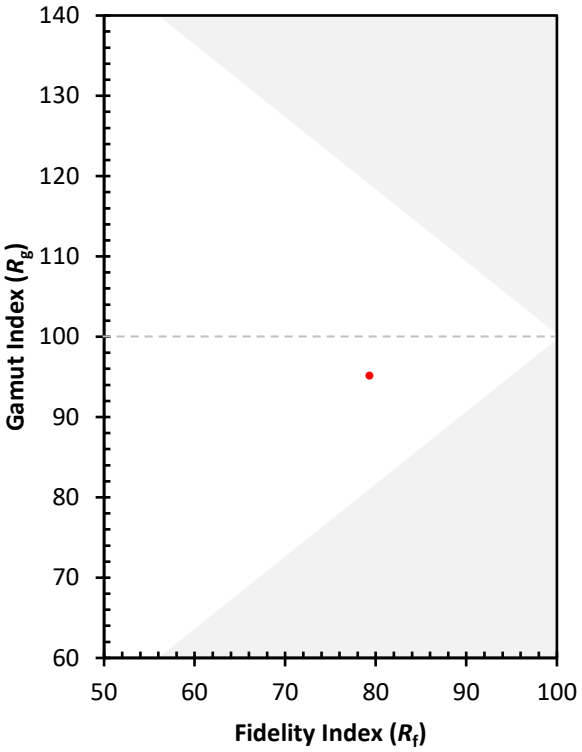


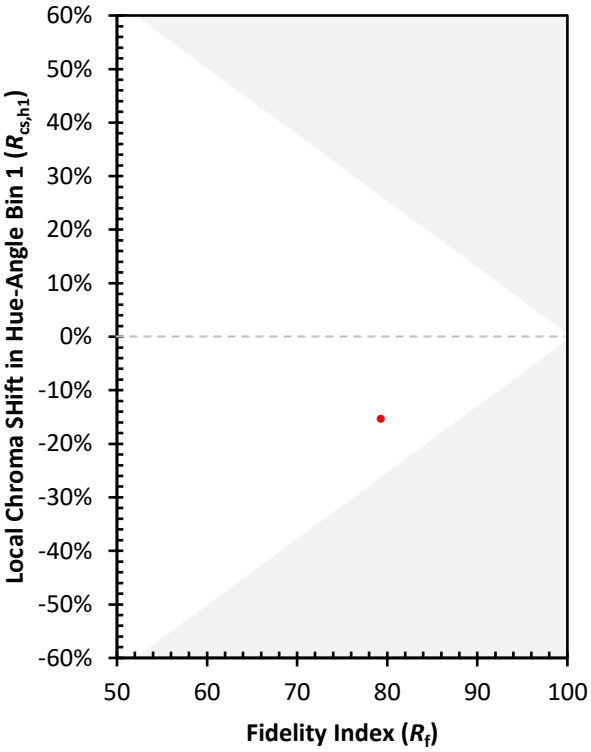


REPORT NUMBER: SP1-2501-332-8

TM-30-18

Measure Comparisons





(END OF REPORT)