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: P1045836

Luminaire Tested: **FFX-CLB-50-727-U-VM8-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:	P1045836
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-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 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:	5152.3 lumens
Efficiency:	N/A
Efficacy:	101.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - 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

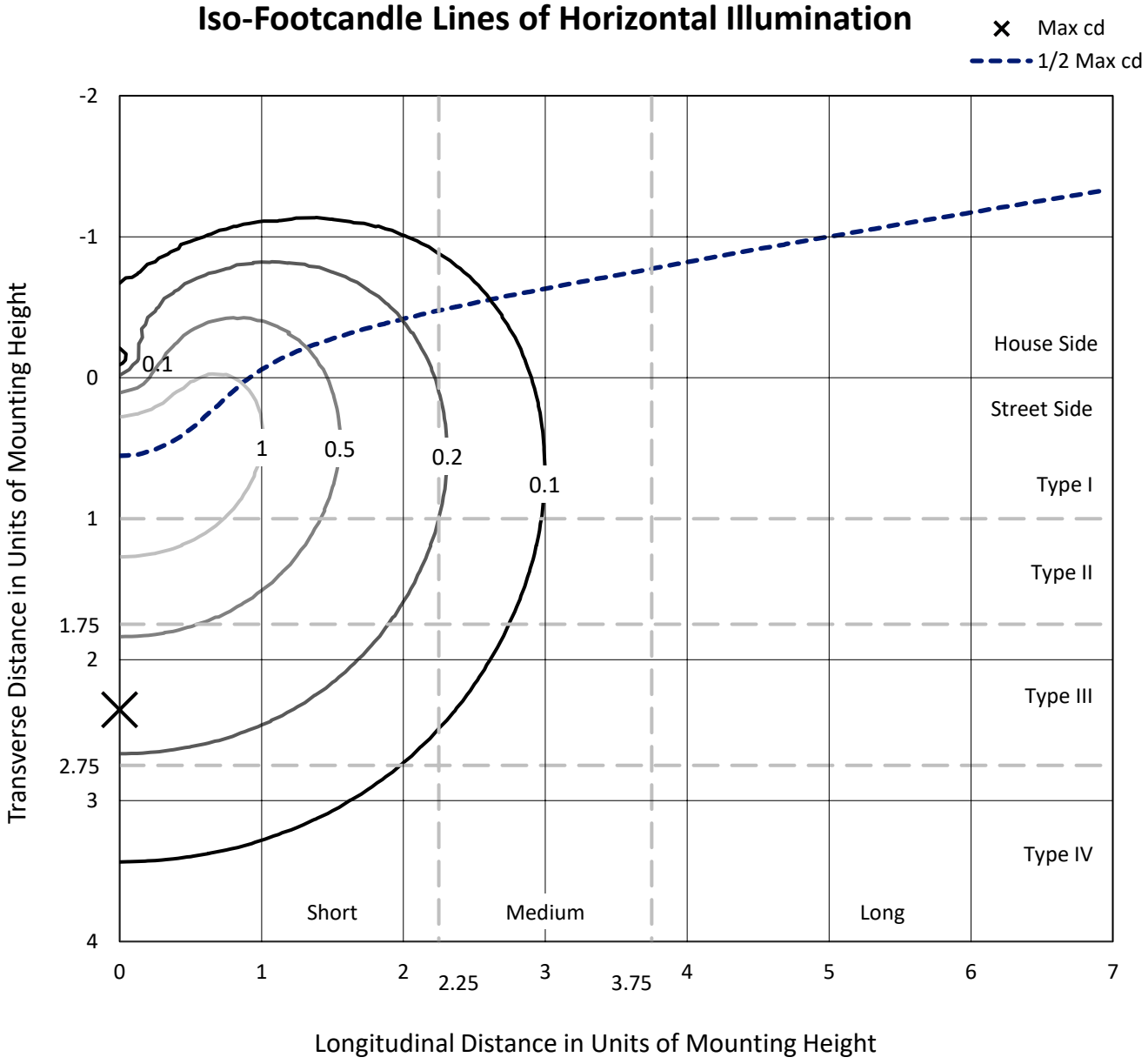


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Iso-Footcandle Lines of Horizontal Illumination



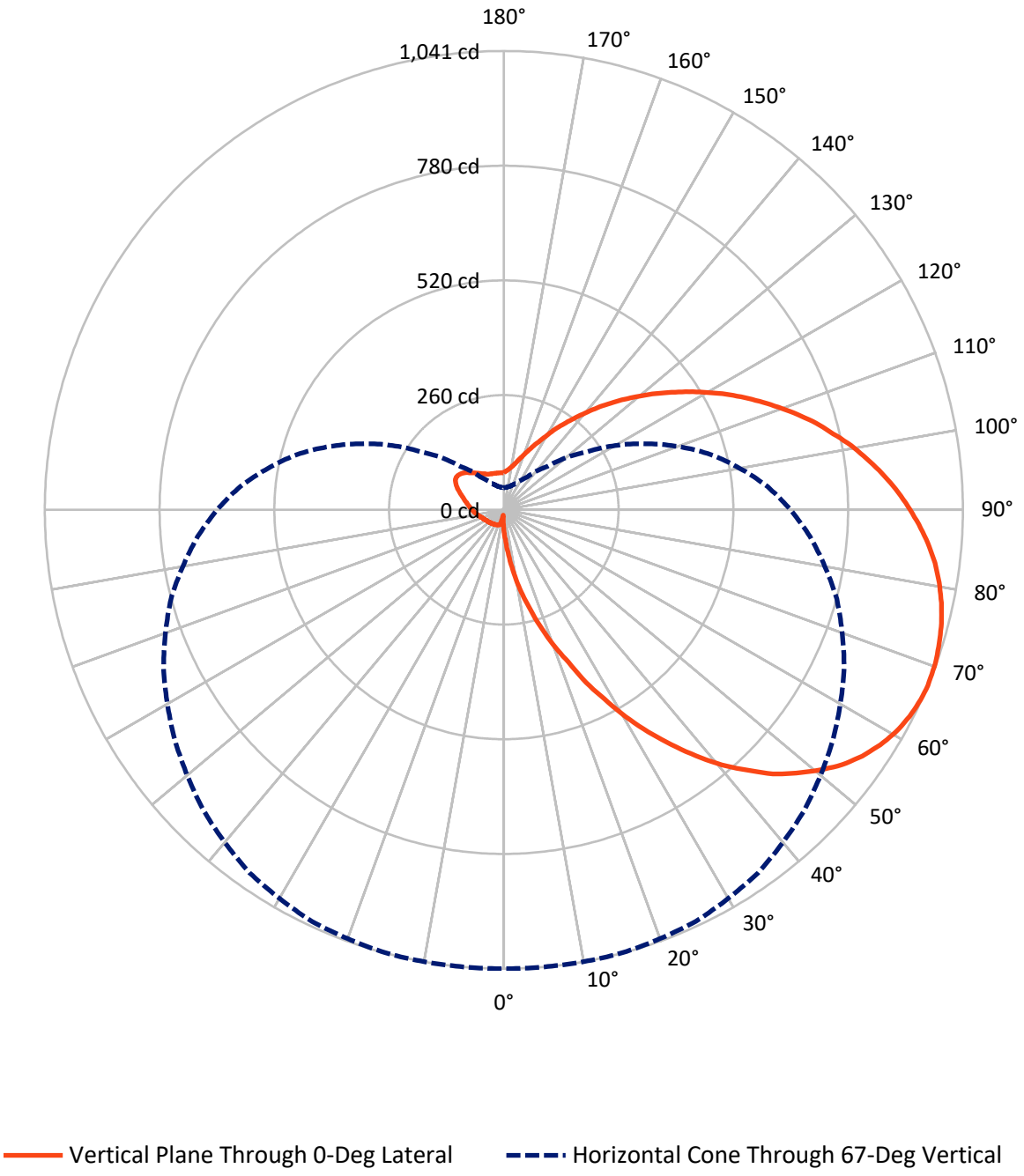
Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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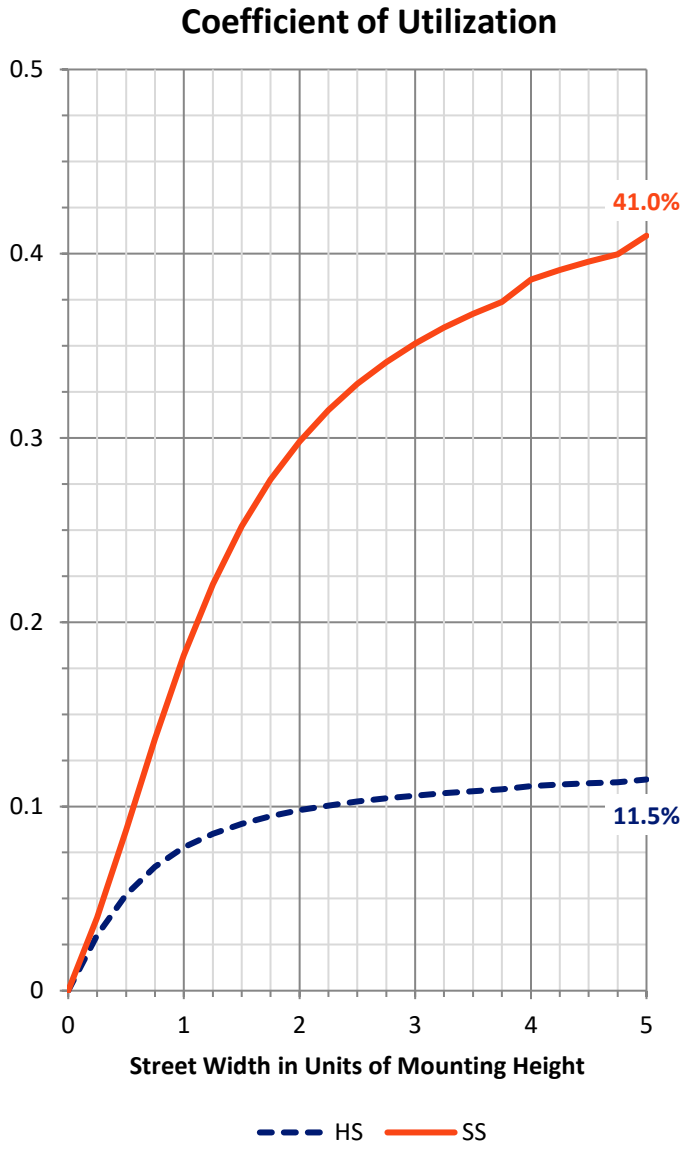
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	638.0	607.9	1245.9
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	2405.8	1500.7	3906.4
	% Fixture	46.7	29.1	75.8
Total	Lumens	3043.8	2108.5	5152.3
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.1
10°-20°	42.8	0.8
20°-30°	119.5	2.3
30°-40°	239.2	4.6
40°-50°	375.9	7.3
50°-60°	494.3	9.6
60°-70°	570.7	11.1
70°-80°	602.3	11.7
80°-90°	592.3	11.5
90°-100°	543.6	10.6
100°-110°	470.2	9.1
110°-120°	385.9	7.5
120°-130°	294.3	5.7
130°-140°	198.2	3.8
140°-150°	117.4	2.3
150°-160°	61.8	1.2
160°-170°	28.8	0.6
170°-180°	8.4	0.2
0°-90°	3043.8	59.1
0°-180°	5152.3	100.0



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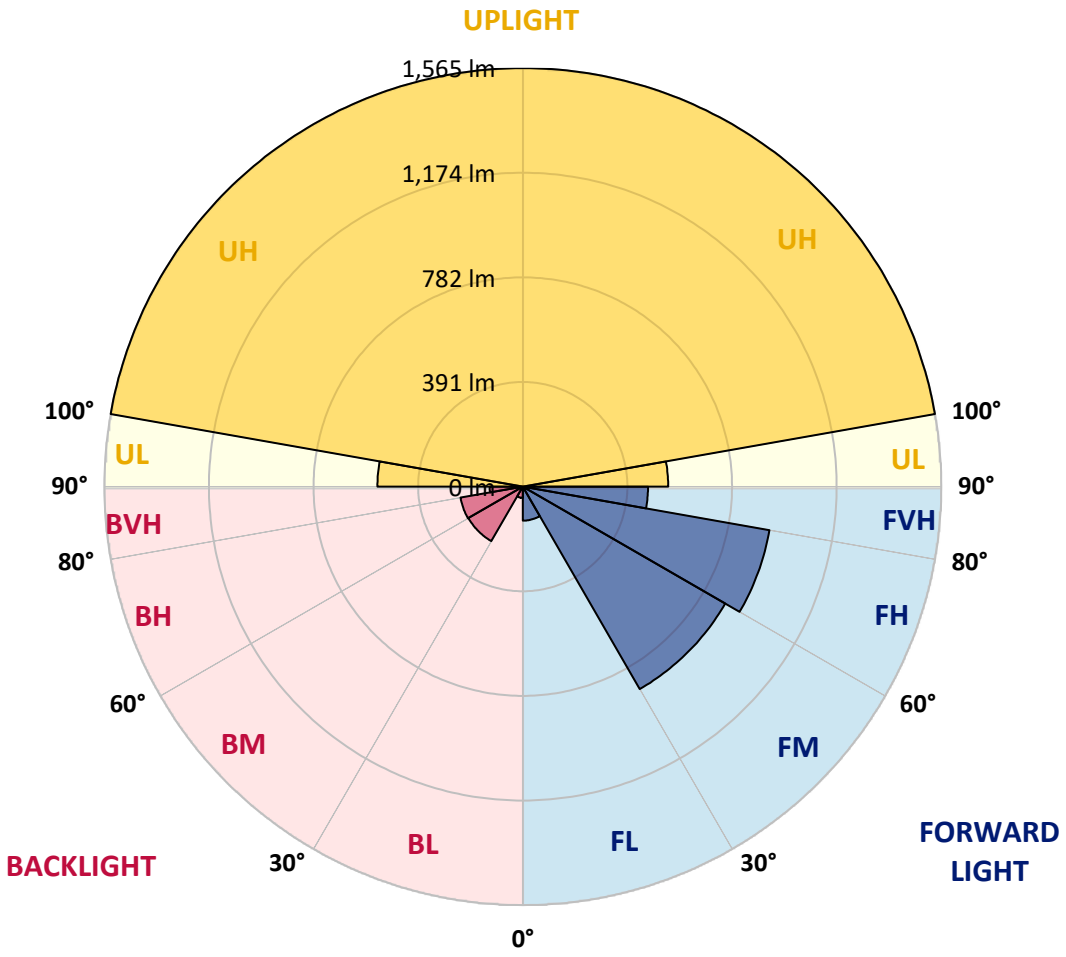
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	127.1	2.5			
FM	(30°-60°)	874.1	17.0			
FH	(60°-80°)	936.4	18.2			G1/1800
FVH	(80°-90°)	468.1	9.1			G3/500
BL	(0°-30°)	42.0	0.8	B0/110		
BM	(30°-60°)	235.3	4.6	B1/1000		
BH	(60°-80°)	236.5	4.6	B1/500		G1/500
BVH	(80°-90°)	124.2	2.4			G2/225
UL	(90°-100°)	543.6	10.6		U4/1000	
UH	(100°-180°)	1564.9	30.4		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*50.2*	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
2.5°	*66.5*	67.6	67.6	67.1	66.5	65.4	64.3	62.0	57.5	54.1	50.7
5°	*96.4*	96.4	97.0	96.4	94.1	91.9	86.8	82.9	75.5	69.9	63.7
7.5°	*130.8*	132.5	131.9	130.2	126.3	121.2	115.0	107.7	100.3	91.9	82.3
10°	*169.1*	168.5	168.5	166.3	161.8	155.0	148.3	139.8	129.1	118.4	106.0
12.5°	*205.2*	206.9	205.8	202.9	197.3	192.2	183.8	174.2	161.8	150.5	133.6
15°	*244.1*	245.2	245.2	243.5	238.5	231.1	221.5	212.5	196.2	180.4	164.0
17.5°	*288.6*	286.9	284.7	284.7	278.5	272.3	262.7	250.3	232.2	214.8	192.8
20°	*333.2*	332.6	329.8	328.1	324.1	315.1	302.7	288.6	270.6	250.9	224.9
22.5°	*374.9*	380.5	379.9	377.1	372.0	363.0	349.5	332.6	314.0	289.2	259.3
25°	*434.1*	430.7	431.2	428.4	423.9	413.2	399.7	379.9	357.4	329.8	295.9
27.5°	*485.4*	484.2	484.2	482.5	476.3	465.1	449.3	430.7	404.7	372.0	334.3
30°	*544.5*	541.7	540.6	538.9	532.7	520.3	504.0	480.8	452.7	419.4	374.9
32.5°	*600.4*	598.1	594.2	593.6	589.1	576.1	557.5	533.8	501.7	462.8	413.8
35°	*653.9*	655.0	653.3	650.5	644.3	631.9	613.9	585.1	553.6	508.5	455.5
37.5°	*708.0*	707.5	708.6	706.3	696.7	684.9	663.5	633.0	597.0	547.9	492.1
40°	*761.0*	758.2	757.6	755.4	748.6	736.8	712.5	681.5	640.9	590.2	527.1
42.5°	*806.7*	807.8	806.7	804.4	795.4	781.9	756.5	722.1	679.3	624.6	559.8
45°	*854.6*	852.9	852.3	852.3	840.5	826.4	798.8	763.3	715.4	656.7	588.0
47.5°	*892.4*	894.6	893.5	890.7	882.8	865.3	836.0	797.1	746.9	686.6	613.3
50°	*927.9*	930.7	931.3	928.4	918.9	899.7	869.2	825.8	775.1	711.4	635.3
52.5°	*960.6*	960.0	961.7	960.0	951.0	931.3	896.3	852.3	797.7	732.3	652.2
55°	*985.9*	985.9	987.1	984.8	976.3	954.4	918.3	871.5	815.7	748.6	666.9
57.5°	*1006.2*	1007.4	1006.8	1006.2	996.6	973.5	935.2	886.7	830.3	760.4	677.6
60°	*1022.0*	1022.6	1022.6	1021.4	1011.9	987.6	948.7	898.6	839.9	770.6	686.0
62.5°	*1032.2*	1032.7	1032.7	1031.6	1022.0	997.2	957.7	905.9	846.7	776.8	691.7
65°	*1038.4*	1038.9	1038.9	1037.8	1028.2	1002.8	962.3	909.8	850.1	780.2	695.1
67°	*1040.6*	*1040.6*	*1040.6*	*1040.0*	*1029.9*	*1005.1*	*963.4*	*910.4*	*851.2*	*781.3*	*696.7*
67.5°	*1040.0*	1040.0	1040.6	1039.5	1029.9	1004.5	962.8	910.4	850.6	781.3	696.7
70°	*1038.4*	1038.4	1038.4	1037.2	1027.6	1002.3	960.6	907.6	848.9	780.2	696.2
72.5°	*1032.2*	1032.7	1032.7	1031.6	1022.0	997.2	955.5	902.5	844.4	776.8	694.5
75°	*1024.8*	1024.8	1024.8	1023.7	1014.1	989.3	948.2	895.7	838.8	772.3	691.1
77.5°	*1014.1*	1014.1	1014.1	1013.0	1003.4	979.2	938.6	887.3	831.5	766.1	687.2
80°	*1000.6*	1001.2	1000.6	999.5	989.9	965.6	926.7	876.6	821.9	758.8	681.5
82.5°	*984.8*	985.4	984.8	982.5	973.5	950.4	911.5	862.5	810.6	749.2	674.8
85°	*964.5*	963.9	964.5	961.1	953.2	930.1	894.6	846.7	796.5	737.9	665.2
87.5°	*941.4*	942.0	940.8	939.1	929.6	907.0	873.2	828.7	780.2	724.4	653.9
90°	*916.0*	916.0	915.5	913.2	903.1	882.8	850.6	807.8	762.7	709.1	642.1
92.5°	*890.1*	889.5	887.8	886.7	877.7	856.8	825.8	787.5	745.2	693.9	629.7
95°	*861.4*	861.4	860.2	858.0	847.8	830.9	801.0	765.0	724.9	677.6	616.7
97.5°	*830.9*	830.3	829.8	826.4	817.4	800.5	776.2	741.3	704.6	660.1	602.0
100°	*801.0*	799.3	798.2	794.8	786.9	770.6	747.5	717.0	681.5	640.9	586.3
102.5°	*766.1*	766.1	765.5	762.1	752.0	738.5	717.6	690.5	660.1	621.2	569.3
105°	*735.1*	732.3	731.1	727.8	719.9	705.2	687.7	664.1	635.9	599.8	552.4
107.5°	*700.1*	697.9	697.3	692.2	686.0	672.5	657.9	635.9	612.2	580.1	535.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*664.6*	663.5	662.9	657.9	650.0	640.9	625.7	608.2	587.4	558.1	518.6
112.5°	*629.7*	628.5	628.5	624.6	617.3	606.0	595.3	580.1	561.5	536.1	499.4
115°	*595.3*	593.6	593.0	588.5	581.2	572.7	562.0	551.3	535.5	514.1	480.8
117.5°	*560.9*	558.6	559.2	555.3	549.6	541.2	531.0	523.7	510.2	490.4	462.2
120°	*525.4*	525.9	525.9	520.9	515.8	509.0	500.6	493.2	484.2	466.8	440.8
122.5°	*491.6*	492.7	492.7	489.3	483.1	476.9	471.3	464.5	456.6	443.1	420.0
125°	*457.7*	460.0	458.9	456.0	451.0	444.2	440.3	434.6	428.4	417.1	396.9
127.5°	*426.7*	426.7	423.9	424.5	419.4	413.8	410.4	406.4	400.2	389.5	373.2
130°	*394.6*	395.2	395.7	392.3	387.8	383.3	379.9	378.3	373.2	364.2	347.8
132.5°	*365.3*	365.3	364.2	361.9	358.0	354.6	354.6	349.5	345.6	337.1	323.0
135°	*336.5*	336.0	336.0	333.7	330.9	329.2	325.3	323.0	319.1	311.2	300.5
137.5°	*308.4*	309.5	308.4	306.7	303.8	301.6	298.8	298.2	292.6	286.9	275.1
140°	*281.3*	283.0	281.3	280.7	278.5	275.7	274.0	271.7	270.0	262.7	252.5
142.5°	*255.9*	257.1	255.9	255.4	253.7	251.4	250.3	248.6	244.7	240.1	231.7
145°	*233.9*	233.4	233.4	232.8	230.6	228.9	227.2	226.0	223.8	219.3	209.7
147.5°	*212.5*	210.8	212.0	210.8	209.1	208.0	207.4	205.2	202.9	198.4	191.7
150°	*190.5*	191.7	191.1	190.5	188.8	188.8	187.2	185.5	183.8	178.7	174.2
152.5°	*172.5*	172.5	173.1	171.9	171.4	169.7	168.5	168.0	165.7	162.3	157.3
155°	*157.3*	156.7	156.7	156.7	155.6	153.9	153.3	152.2	151.1	147.1	142.6
157.5°	*142.6*	142.6	142.6	142.1	142.1	140.4	139.8	138.1	136.4	134.2	130.2
160°	*130.2*	130.2	129.7	129.7	129.1	128.5	127.4	125.7	124.6	122.9	119.5
162.5°	*120.1*	119.5	119.5	118.9	118.4	117.3	116.7	116.1	114.4	112.7	109.9
165°	*110.5*	110.5	110.5	109.9	109.4	108.8	108.2	107.1	106.0	104.9	103.2
167.5°	*103.2*	103.2	103.2	102.6	102.6	102.0	101.5	100.3	99.2	98.1	97.0
170°	*97.5*	97.5	97.5	97.0	96.4	95.8	95.3	94.7	94.1	93.0	92.4
172.5°	*93.0*	93.0	93.0	93.0	91.9	91.3	90.8	90.8	90.2	89.6	89.1
175°	*89.1*	89.1	89.1	89.1	88.5	87.9	87.4	87.4	86.8	86.2	85.7
177.5°	*86.8*	86.8	86.8	86.2	86.2	85.7	85.1	85.1	84.6	84.6	84.0
180°	*84.0*	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
2.5°	48.5	46.2	42.3	38.9	36.1	33.3	31.6	29.9	29.9	30.4	29.3
5°	58.6	54.7	47.4	39.5	32.7	27.1	22.5	18.6	15.2	13.5	13.5
7.5°	77.8	73.3	63.1	53.0	43.4	34.4	27.1	20.9	15.8	13.0	12.4
10°	99.8	94.7	80.6	68.2	56.4	45.1	35.5	27.1	21.4	18.6	18.0
12.5°	125.1	118.4	101.5	85.7	70.5	56.4	44.5	35.0	29.3	26.5	25.9
15°	154.5	143.7	124.6	104.9	85.1	67.6	53.6	42.8	36.6	32.7	32.7
17.5°	181.0	169.7	146.6	121.2	98.6	78.4	61.4	48.5	40.0	36.1	35.5
20°	211.4	196.2	168.5	139.2	111.6	86.8	66.5	51.9	41.7	36.6	36.6
22.5°	242.4	226.6	192.8	157.3	124.0	94.7	71.6	54.1	42.8	37.2	36.6
25°	279.0	257.6	217.0	177.0	138.1	103.2	76.1	56.4	44.0	38.3	37.2
27.5°	314.6	292.6	245.2	196.7	151.1	111.6	80.0	58.6	45.1	38.9	38.3
30°	351.8	324.7	271.1	217.0	164.6	118.9	84.0	60.3	45.7	39.5	38.3
32.5°	389.0	359.1	299.9	236.8	177.6	125.7	87.4	61.4	46.8	40.0	38.9
35°	426.7	394.6	327.5	256.5	189.4	131.9	89.6	62.6	47.4	40.0	39.5
37.5°	459.4	425.6	353.4	274.5	199.6	137.0	91.9	63.7	47.4	40.6	40.0
40°	492.1	455.5	376.0	289.7	208.6	140.9	93.6	64.3	47.9	41.2	40.6
42.5°	521.4	480.8	395.7	303.3	215.9	143.7	94.1	64.3	48.5	41.7	41.2
45°	547.9	506.8	414.3	316.2	222.1	145.4	94.7	64.8	49.0	42.3	41.7
47.5°	572.2	528.2	431.2	327.0	227.2	147.1	94.7	64.8	49.6	43.4	42.3
50°	592.5	546.2	445.3	336.0	230.6	147.7	94.1	64.8	50.2	44.0	43.4
52.5°	608.2	561.5	457.2	342.2	232.8	147.1	93.6	64.8	50.7	44.5	44.0
55°	621.8	573.9	465.6	347.2	233.4	146.0	93.0	64.8	51.3	45.7	45.1
57.5°	631.9	582.9	473.0	351.2	233.9	144.9	91.9	64.8	51.9	46.2	45.7
60°	639.8	590.8	478.6	353.4	233.4	143.2	91.3	64.8	52.4	47.4	46.8
62.5°	645.4	595.3	482.0	354.0	231.7	141.5	90.2	64.8	53.0	48.5	47.9
65°	648.8	598.7	484.8	354.6	230.0	139.8	89.6	65.4	54.1	50.2	49.6
67°	*650.0*	*600.4*	*485.4*	*354.6*	*228.9*	*138.7*	*89.6*	*66.0*	*55.2*	*50.7*	*50.2*
67.5°	650.5	600.4	485.4	354.0	228.3	138.7	89.6	66.0	55.2	51.3	50.7
70°	650.0	600.4	485.4	352.9	226.6	137.5	89.1	67.1	56.9	53.0	52.4
72.5°	648.8	599.2	484.2	351.2	224.4	136.4	89.6	68.2	58.6	54.7	54.1
75°	646.0	597.0	482.0	348.9	222.7	135.3	90.2	69.3	60.3	56.9	56.4
77.5°	643.2	594.2	480.3	346.7	221.0	135.3	90.8	71.0	62.6	59.2	58.6
80°	638.1	590.2	476.9	344.4	219.3	134.7	91.9	73.3	64.8	61.4	60.9
82.5°	631.9	584.6	472.4	341.0	217.6	134.7	93.6	75.0	67.1	63.7	63.1
85°	623.5	577.2	466.8	336.5	215.9	135.3	94.7	77.2	69.3	66.5	66.0
87.5°	613.9	568.2	460.0	332.6	214.2	135.3	96.4	79.5	71.6	68.8	68.8
90°	602.6	558.6	452.1	328.1	212.5	136.4	98.6	81.7	74.4	71.6	71.6
92.5°	592.5	548.5	445.9	323.6	211.4	137.5	100.9	84.6	77.2	74.4	74.4
95°	578.9	537.8	436.9	319.6	210.8	138.7	103.2	87.4	80.6	77.8	77.2
97.5°	566.0	525.9	429.0	315.1	210.3	140.9	106.0	90.8	83.4	80.6	80.6
100°	551.9	514.1	420.0	311.2	210.3	143.7	109.9	94.1	87.4	84.6	84.0
102.5°	538.3	501.1	410.9	307.2	211.4	146.6	113.9	98.1	91.3	88.5	87.9
105°	523.1	487.6	403.1	303.8	212.5	150.5	118.4	103.2	95.8	93.0	92.4
107.5°	507.9	475.2	394.0	301.0	214.8	155.6	124.0	108.2	100.9	97.5	97.0

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

Scaled Data Report

REPORT NUMBER: P1045836
CATALOG NUMBER: FFX-CLB-50-727-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	491.6	461.7	386.1	298.8	218.2	161.2	130.2	115.0	106.5	103.2	102.6
112.5°	476.3	448.2	377.7	297.1	221.5	168.0	137.5	121.2	113.3	108.8	108.2
115°	459.4	434.1	369.8	295.4	225.5	174.8	145.4	128.0	119.5	115.0	115.0
117.5°	443.1	419.4	360.8	293.7	229.4	182.1	152.8	135.3	125.7	121.2	120.6
120°	423.9	403.6	351.2	290.3	231.7	187.7	159.0	141.5	130.8	126.3	125.7
122.5°	404.7	386.1	338.8	285.2	232.2	191.1	163.5	146.6	135.3	130.2	129.7
125°	382.8	367.0	325.8	277.3	230.6	192.8	166.3	148.3	137.0	131.3	130.8
127.5°	361.3	346.1	310.6	267.8	226.0	191.1	165.7	148.3	137.0	130.8	130.2
130°	338.2	324.7	292.6	255.9	218.7	187.2	163.5	146.0	134.7	128.5	128.0
132.5°	314.6	303.3	275.1	243.0	209.7	181.0	158.4	142.1	130.8	125.1	124.6
135°	291.4	281.3	257.1	228.3	200.1	173.6	152.8	137.0	125.7	120.6	120.6
137.5°	269.5	259.9	238.5	214.2	188.8	165.2	146.0	130.8	121.2	116.1	115.0
140°	246.9	239.0	220.4	199.0	177.0	156.1	138.7	124.6	115.6	111.1	110.5
142.5°	226.0	219.3	203.5	186.0	165.7	147.7	131.3	119.5	111.1	106.5	106.0
145°	206.3	200.1	186.6	170.8	154.5	138.7	124.0	113.3	106.0	102.6	102.0
147.5°	186.6	182.6	171.4	158.4	143.2	129.1	117.3	108.2	101.5	98.6	98.1
150°	170.2	165.2	156.7	144.9	133.0	121.2	111.1	103.2	98.1	95.3	95.3
152.5°	153.9	151.1	142.6	133.6	123.5	113.9	104.9	98.6	94.7	92.4	92.4
155°	141.5	137.5	130.2	122.9	114.4	106.5	100.3	95.3	91.9	90.2	89.6
157.5°	128.5	126.3	120.6	113.9	107.7	101.5	96.4	92.4	89.6	88.5	87.9
160°	117.8	116.1	111.6	106.5	101.5	97.0	93.0	90.2	87.9	86.8	86.8
162.5°	108.8	107.7	103.7	100.3	96.4	93.0	90.2	87.9	86.8	86.2	86.2
165°	102.0	100.9	98.1	95.3	93.0	90.2	88.5	86.8	85.7	85.7	85.7
167.5°	96.4	95.3	93.6	91.9	90.2	87.9	86.8	85.7	85.7	85.1	85.1
170°	91.9	91.3	89.6	88.5	87.4	86.2	85.7	85.1	84.6	84.6	84.6
172.5°	88.5	87.9	86.8	86.2	85.1	84.6	84.6	84.6	84.6	84.6	84.6
175°	85.7	85.1	85.1	84.6	84.0	84.0	83.4	84.0	84.0	84.0	84.0
177.5°	84.0	84.0	83.4	83.4	83.4	83.4	83.4	84.0	84.0	84.6	84.6
180°	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0

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: SP1-2501-332-8

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

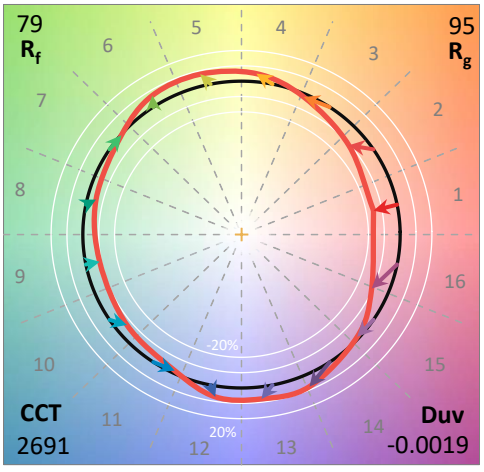
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

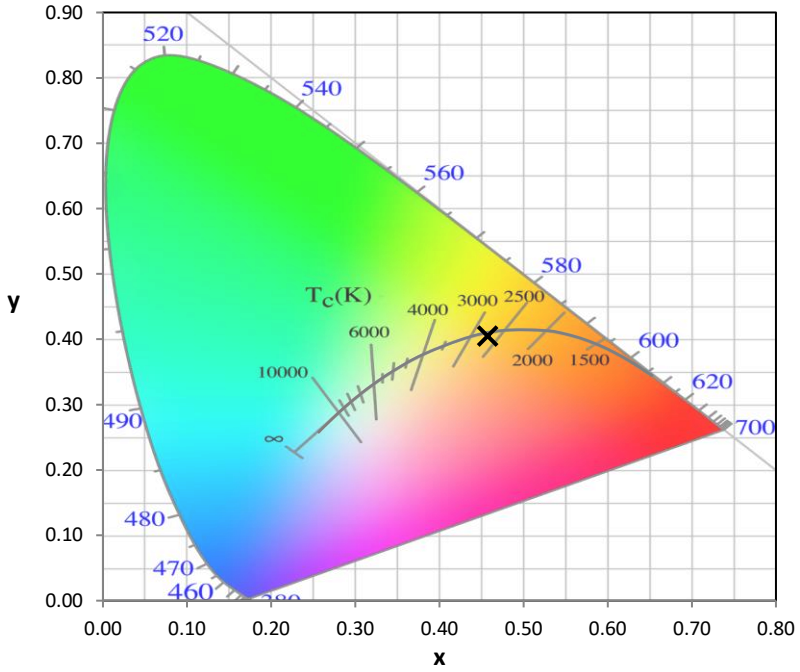
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

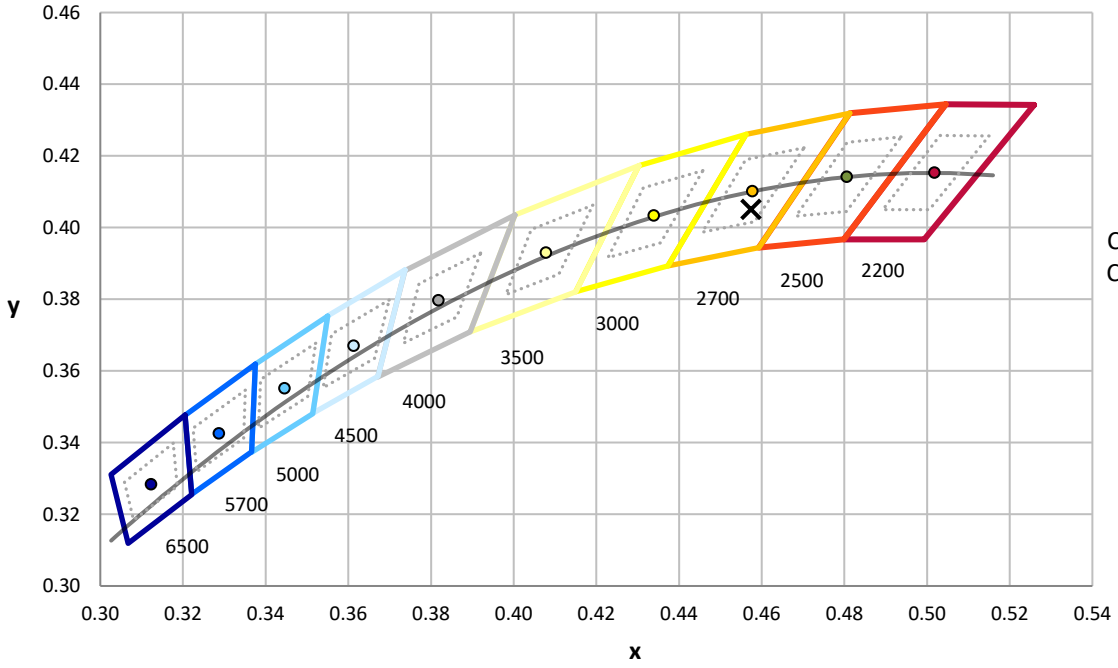
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

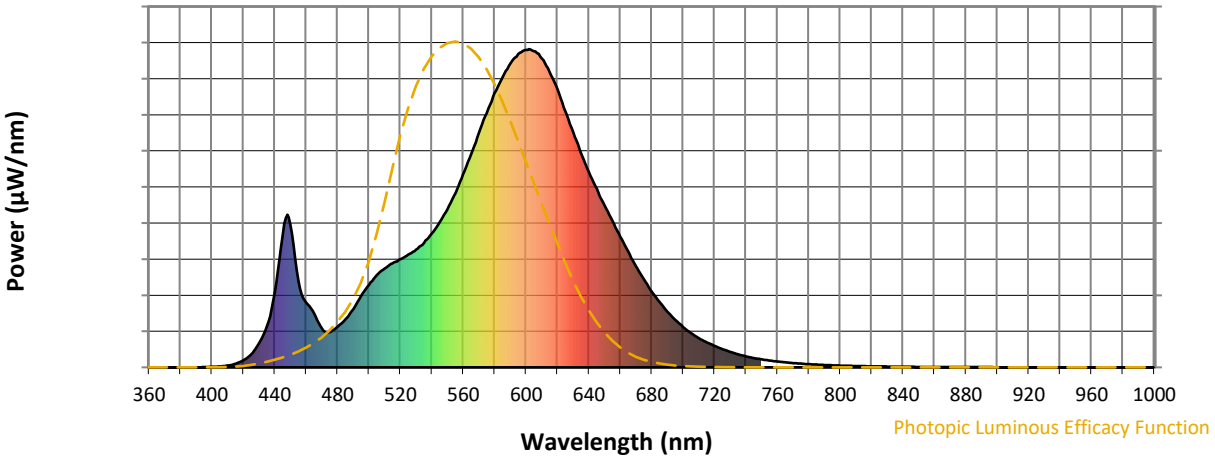


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

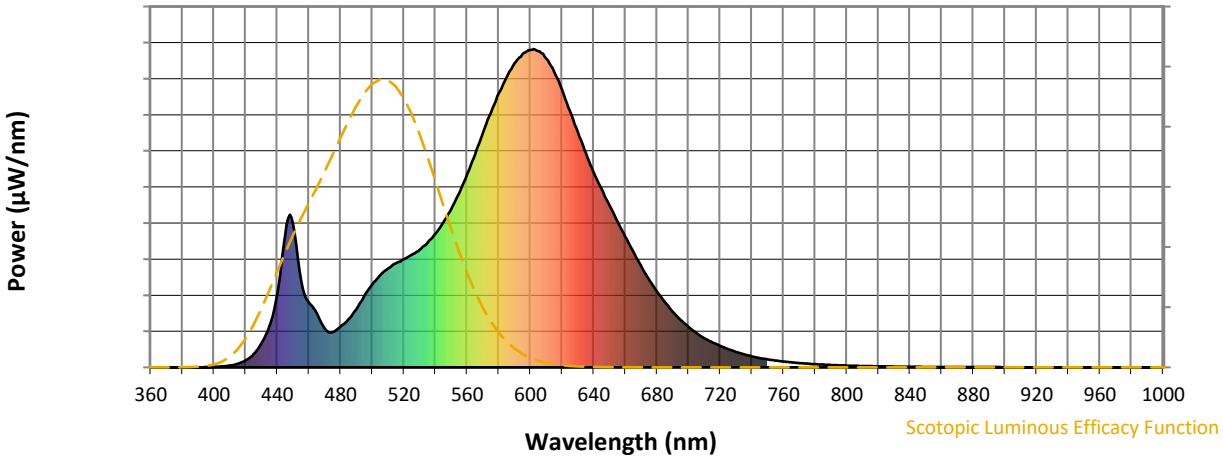


Photopic Lumens: NR

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

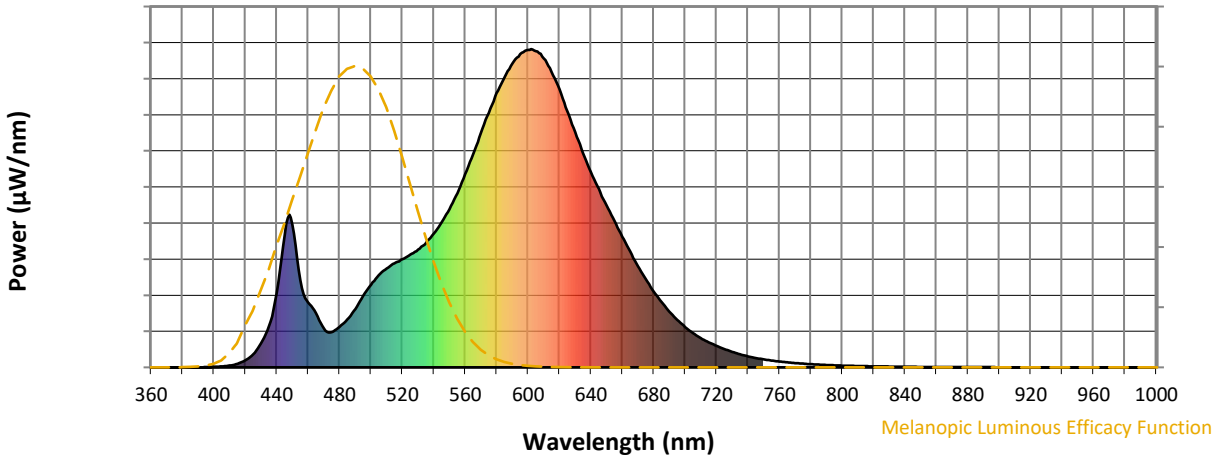


Scotopic Lumens: NR **S/P: 1.18**

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			

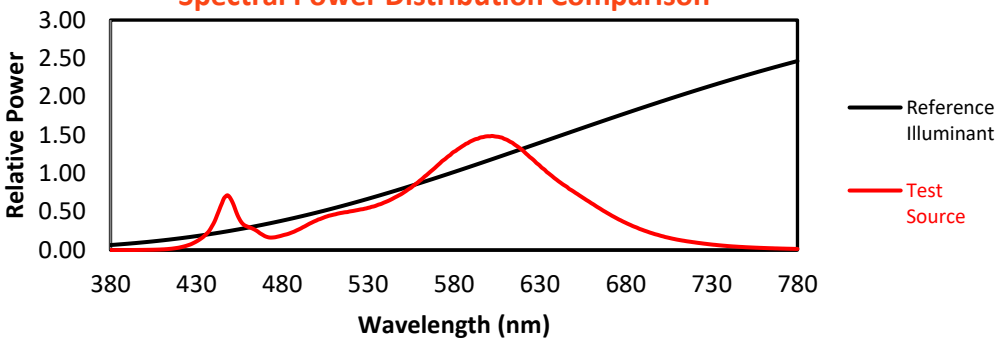
REPORT NUMBER: SP1-2501-332-8

TM-30-18

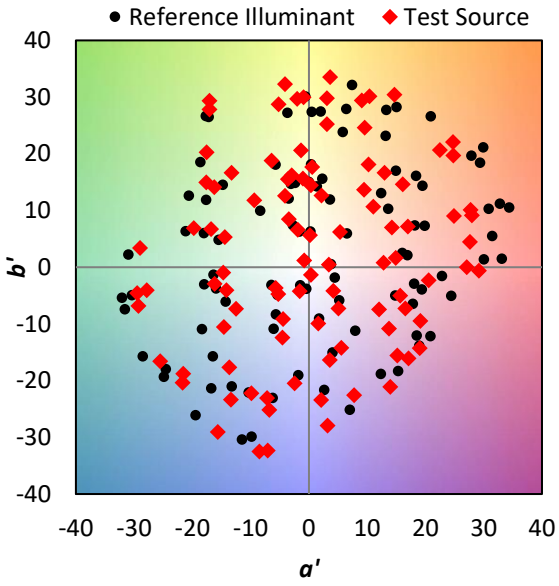
Summary

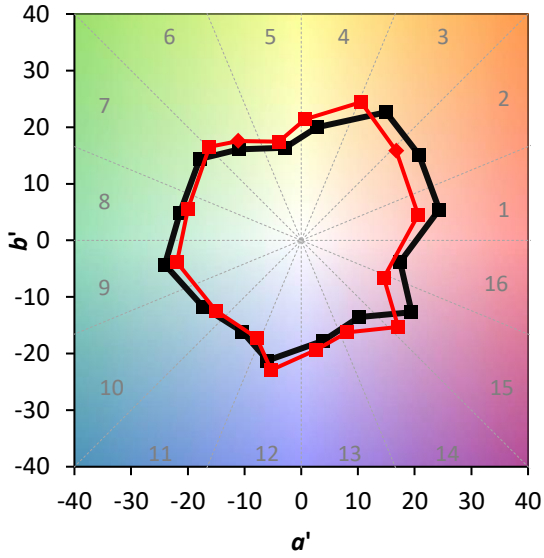
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

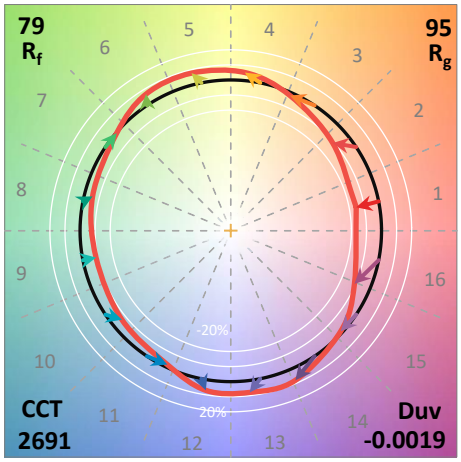
Spectral Power Distribution Comparison

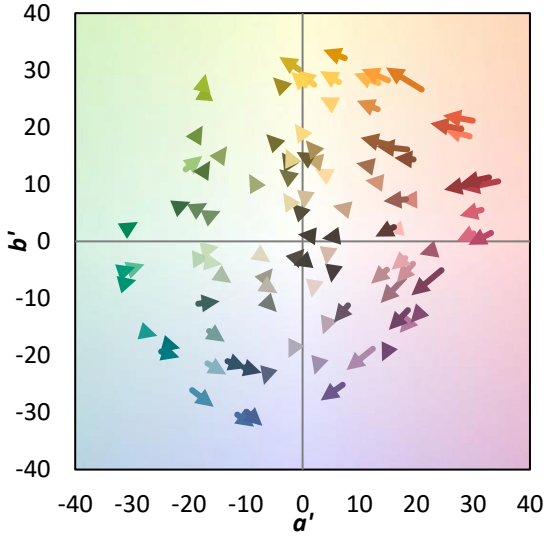


Color Vector Graphics







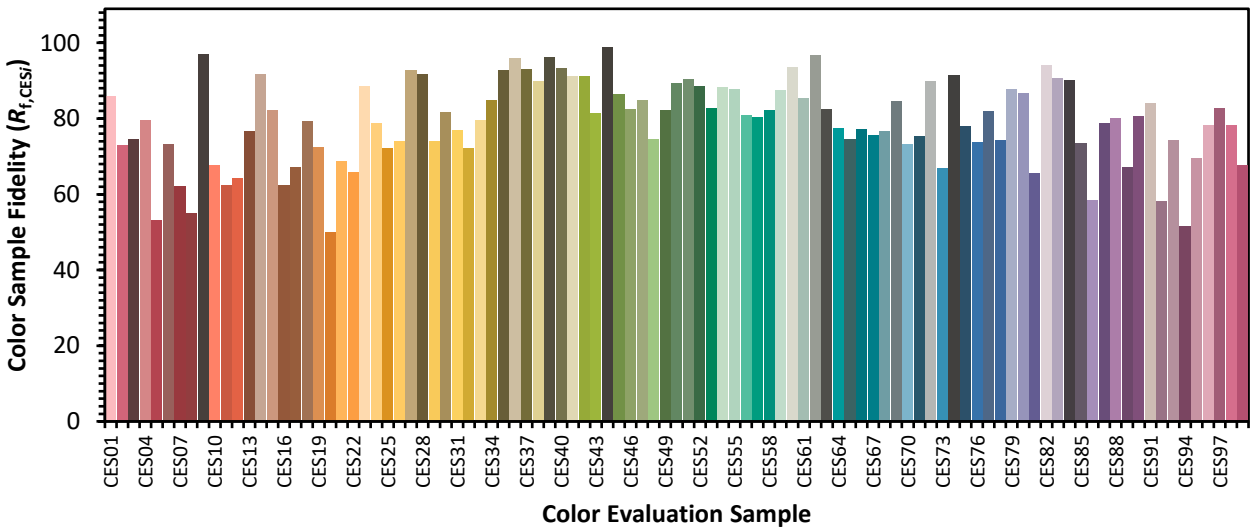


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

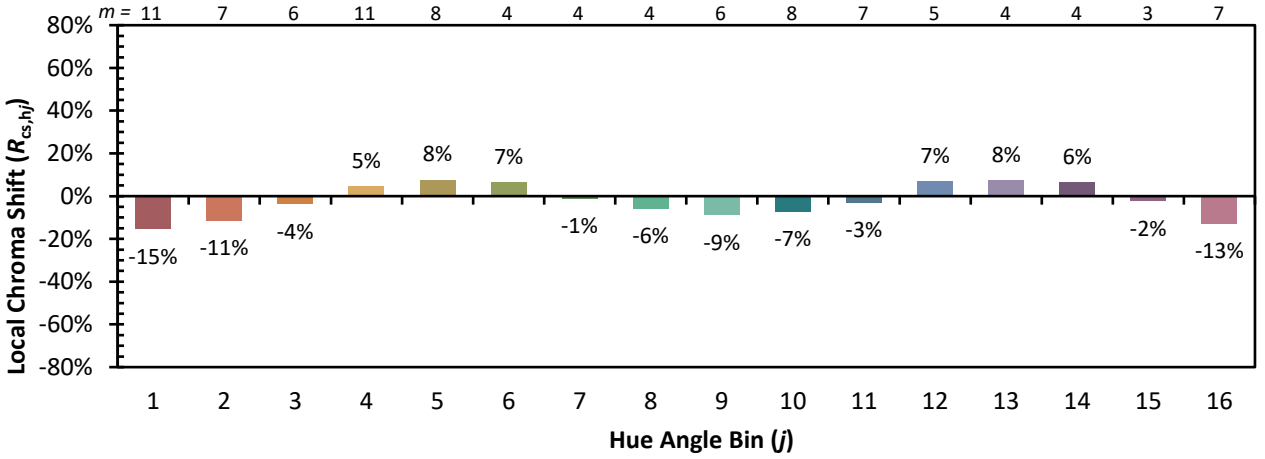
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

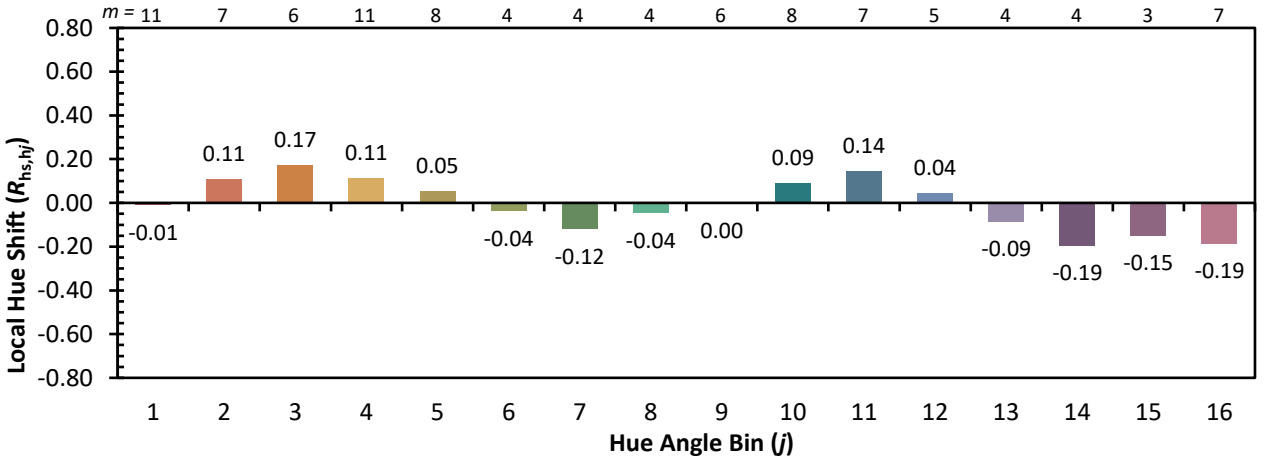


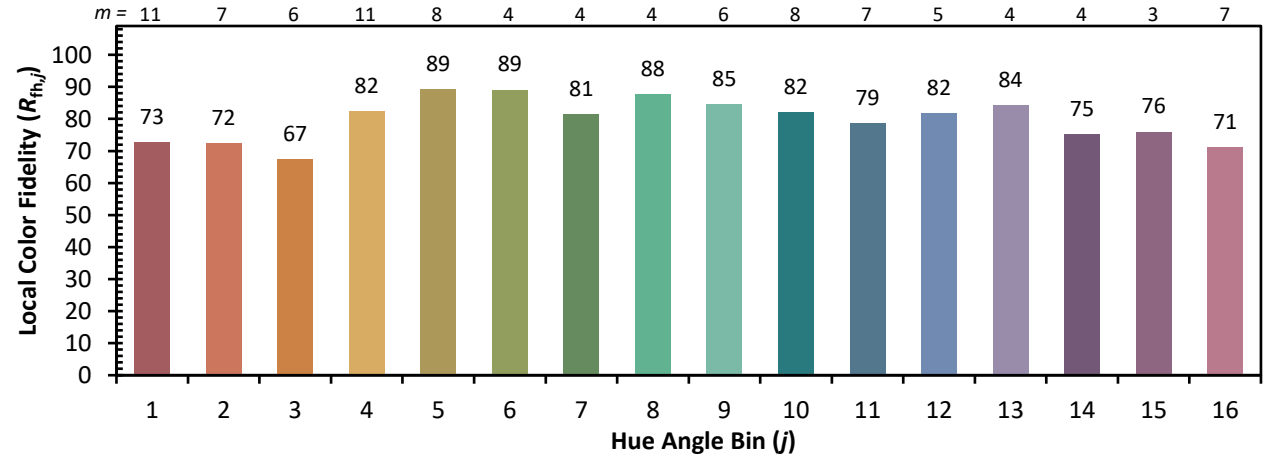
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Color Rendition by Hue-Angle Bin



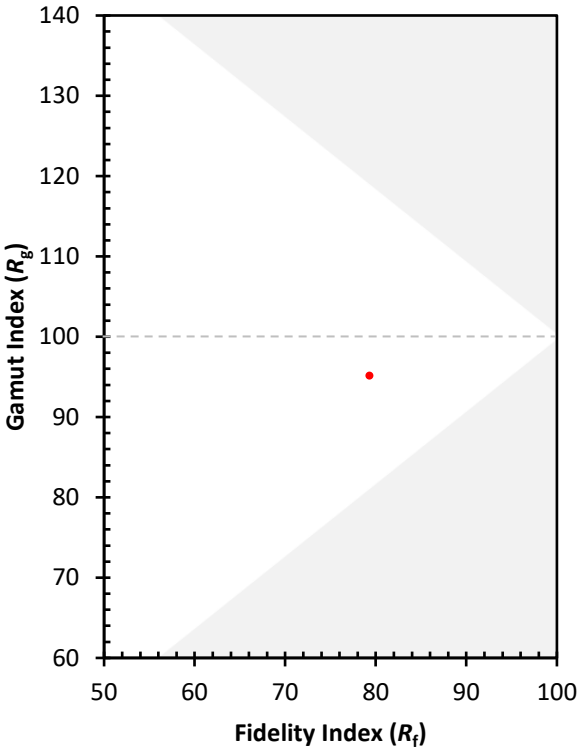


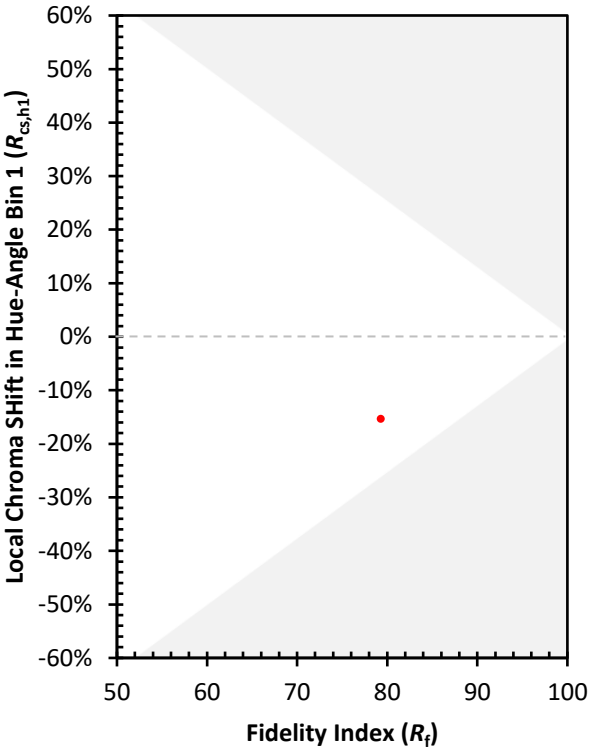


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Measure Comparisons





(END OF REPORT)