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: P1045972

Luminaire Tested: **FFX-CLB-40-727-U-PG-T5-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:	P1045972
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-PG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4099 lumens
Efficiency:	N/A
Efficacy:	104.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - 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

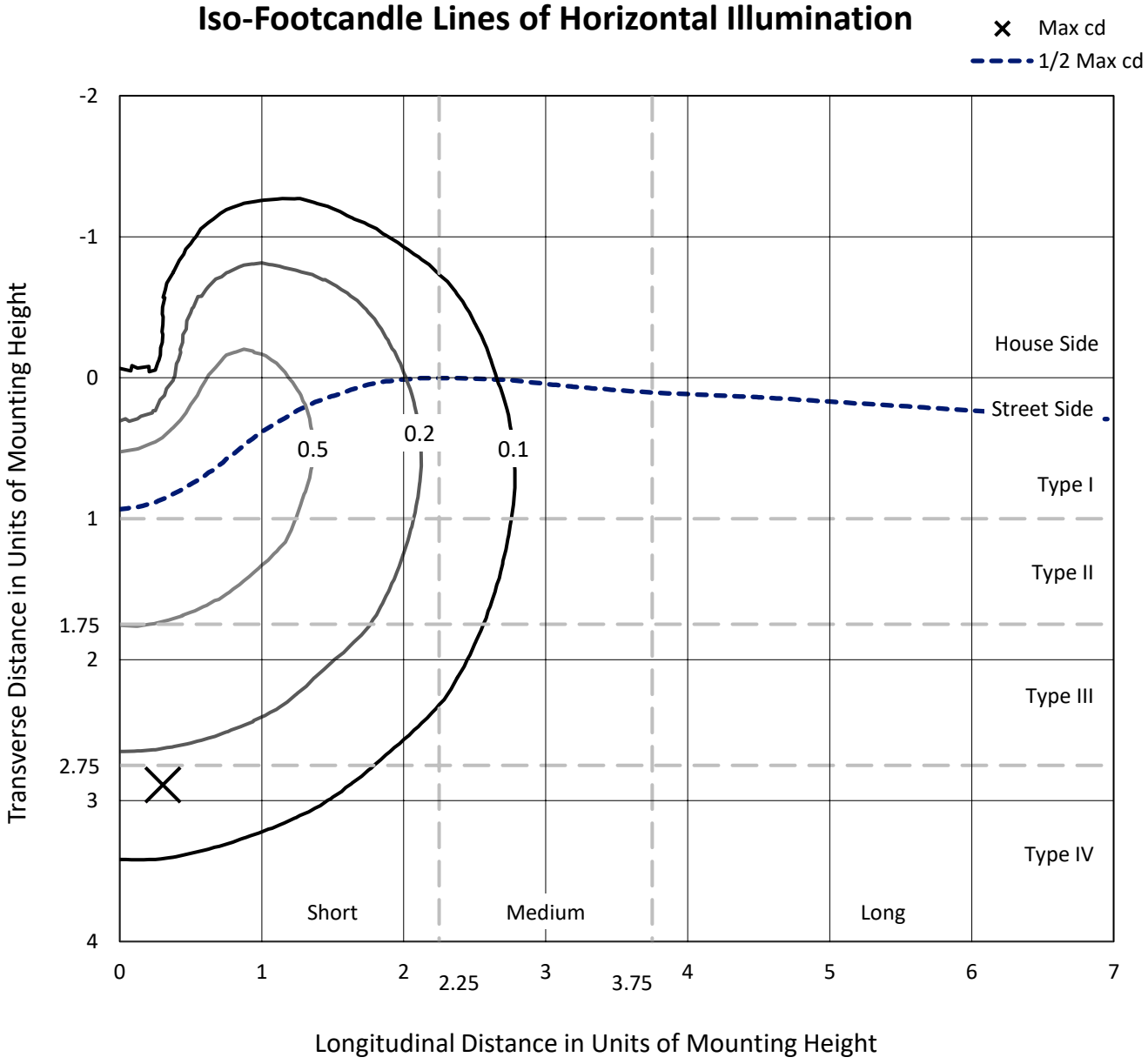


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Iso-Footcandle Lines of Horizontal Illumination



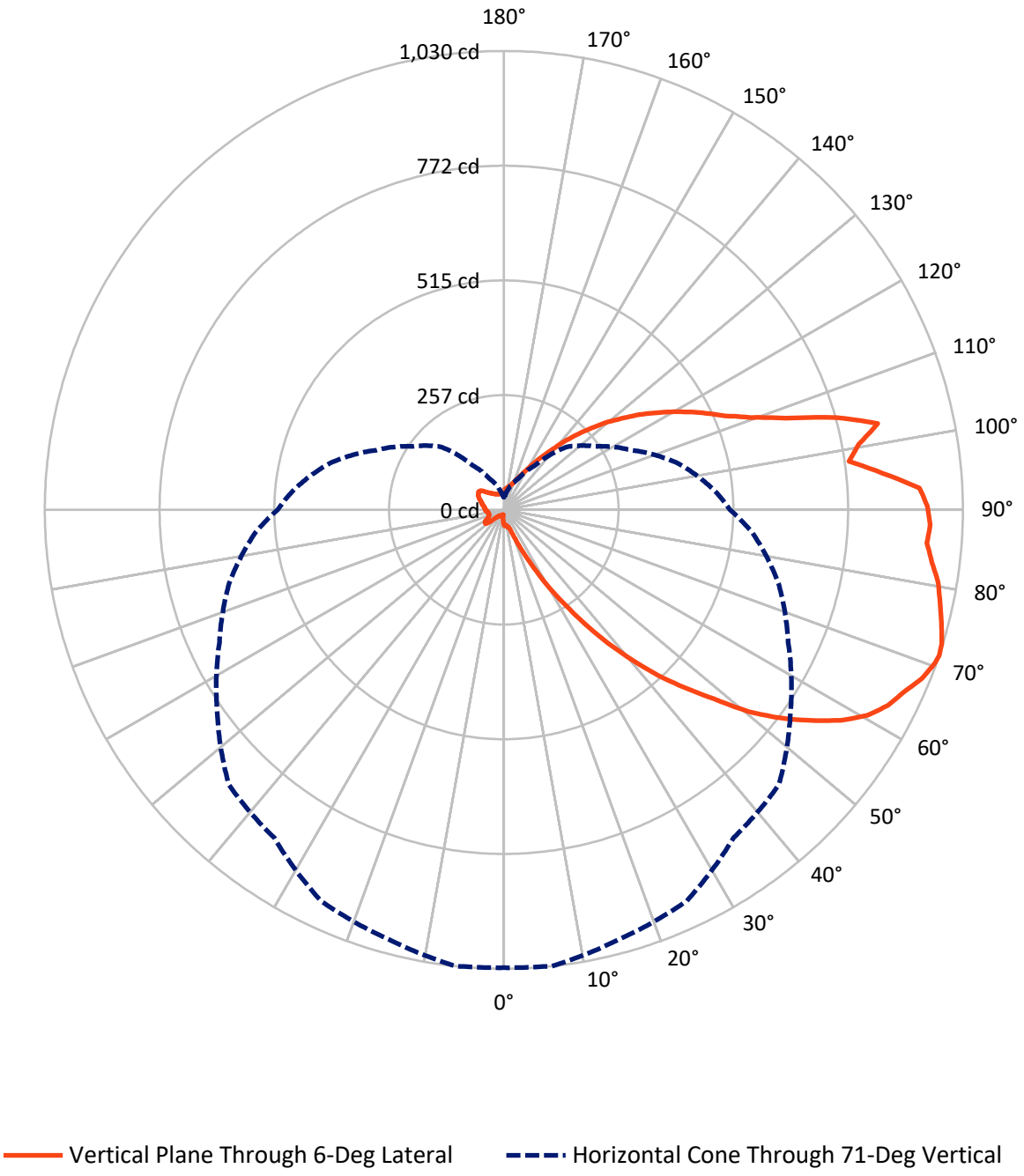
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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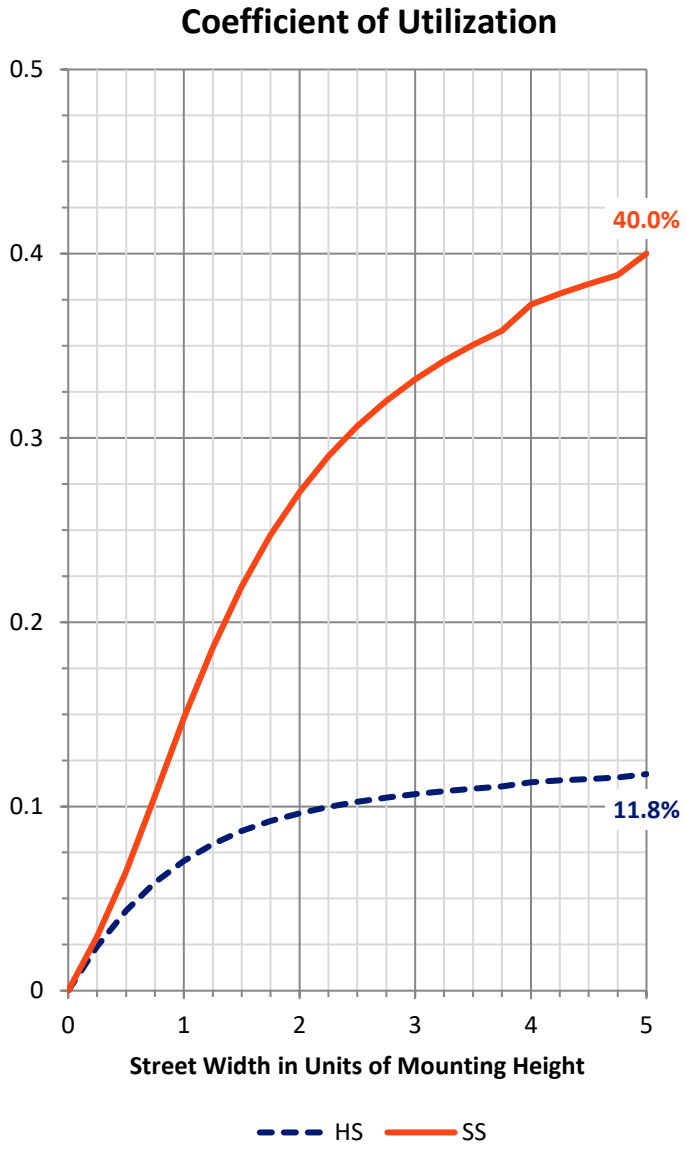
REPORT NUMBER: P1045972
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.3	417.4	943.7
	% Fixture	12.8	10.2	23.0
Street Side	Lumens	1920.1	1235.2	3155.2
	% Fixture	46.8	30.1	77.0
Total	Lumens	2446.4	1652.6	4099.0
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.1
10°-20°	8.6	0.2
20°-30°	38.9	0.9
30°-40°	130.2	3.2
40°-50°	265.2	6.5
50°-60°	408.0	10.0
60°-70°	507.8	12.4
70°-80°	543.0	13.2
80°-90°	542.1	13.2
90°-100°	489.9	12.0
100°-110°	428.5	10.5
110°-120°	292.1	7.1
120°-130°	206.3	5.0
130°-140°	125.1	3.1
140°-150°	63.4	1.5
150°-160°	29.6	0.7
160°-170°	13.6	0.3
170°-180°	4.2	0.1
0°-90°	2446.4	59.7
0°-180°	4099.0	100.0



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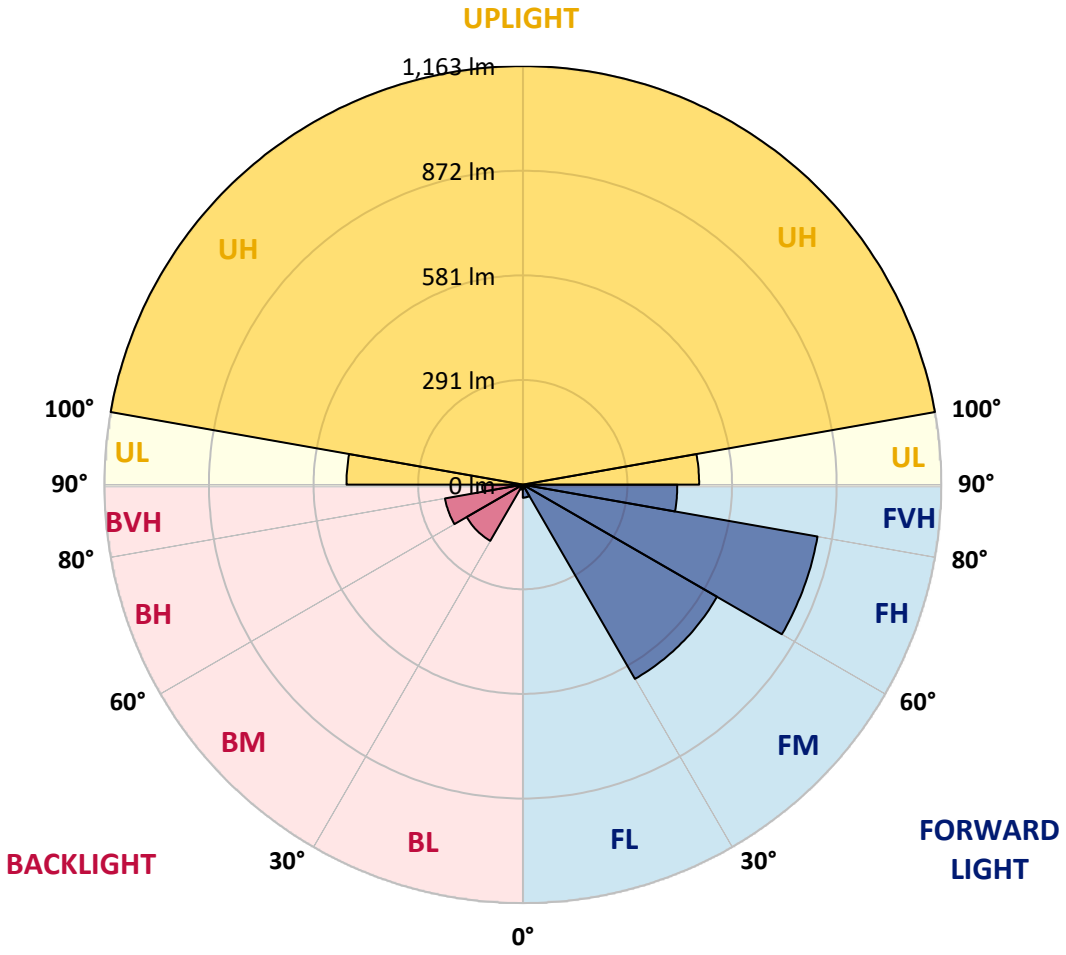
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	36.3	0.9			
FM	(30°-60°)	623.2	15.2			
FH	(60°-80°)	831.4	20.3			G1/1800
FVH	(80°-90°)	429.3	10.5			G3/500
BL	(0°-30°)	13.9	0.3	B0/110		
BM	(30°-60°)	180.3	4.4	B0/220		
BH	(60°-80°)	219.4	5.4	B1/500		G1/500
BVH	(80°-90°)	112.8	2.8			G2/225
UL	(90°-100°)	489.9	12.0		U3/500	
UH	(100°-180°)	1162.7	28.4		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
0°	33.4	33.4	*33.4*	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
2.5°	36.1	36.1	*36.1*	36.1	36.1	36.1	35.6	34.7	34.3	33.8	33.4
5°	34.3	34.3	*34.3*	34.3	34.3	34.3	34.3	33.8	33.4	32.5	31.6
7.5°	34.3	34.3	*34.3*	34.3	33.8	33.4	32.9	32.5	32.0	30.3	28.5
10°	37.4	37.8	*37.4*	37.4	36.1	34.7	33.8	32.5	31.6	30.7	28.5
12.5°	39.6	39.6	*39.6*	39.2	38.3	37.4	35.6	33.4	31.6	29.8	28.0
15°	41.0	41.0	*41.0*	41.0	40.1	38.7	37.4	35.6	33.8	31.6	29.4
17.5°	46.3	46.3	*46.3*	45.8	45.0	44.1	43.2	42.3	41.0	38.7	36.5
20°	61.0	62.3	*61.9*	60.5	59.6	58.8	59.2	58.3	57.4	54.3	50.7
22.5°	84.6	86.4	*85.9*	86.4	85.0	84.1	83.7	84.6	82.8	78.3	71.7
25°	118.9	118.9	*117.5*	121.1	121.5	117.1	118.0	117.5	116.2	108.2	97.5
27.5°	157.1	156.2	*155.8*	161.6	162.5	160.7	162.5	159.4	154.9	146.0	132.6
30°	201.6	205.2	*207.0*	207.9	210.5	212.3	214.6	211.9	199.9	189.2	170.5
32.5°	258.2	256.0	*255.5*	264.9	269.8	270.2	275.5	268.0	254.6	234.6	210.1
35°	320.5	315.2	*316.0*	321.8	329.8	335.6	339.6	324.9	311.1	284.9	252.8
37.5°	379.3	379.7	*379.3*	381.5	396.6	398.4	399.3	382.8	362.8	335.6	295.6
40°	439.3	440.2	*442.5*	449.6	465.6	462.5	455.4	440.7	414.9	384.1	337.0
42.5°	501.2	507.0	*508.3*	511.9	523.0	522.1	510.1	493.7	463.8	425.5	372.6
45°	567.5	566.7	*568.9*	573.8	582.7	582.7	561.3	537.3	504.8	461.6	404.6
47.5°	630.3	637.0	*633.0*	645.0	640.5	643.7	607.2	577.8	542.2	491.0	431.3
50°	709.5	713.1	*711.8*	710.4	697.1	697.1	659.7	620.1	580.0	519.5	458.0
52.5°	776.8	778.1	*775.9*	770.5	751.8	745.6	701.5	655.7	613.4	552.9	483.9
55°	839.1	830.2	*834.2*	825.7	796.3	789.7	747.8	682.8	642.8	576.9	506.1
57.5°	884.9	889.8	*891.2*	872.9	843.5	816.4	788.3	715.3	665.0	599.6	520.8
60°	924.1	937.4	*936.6*	909.0	883.1	834.6	819.0	743.8	679.7	619.6	536.8
62.5°	953.5	967.7	*966.8*	944.6	921.4	853.3	836.0	760.7	688.6	629.9	548.8
65°	982.4	989.1	*986.0*	977.1	949.5	870.7	852.0	768.3	696.2	634.3	553.3
67.5°	1011.8	1011.3	*1010.9*	998.4	968.6	886.7	864.9	779.4	703.8	639.2	556.4
70°	1026.5	1027.4	*1026.9*	1000.7	973.1	897.4	872.0	785.2	705.5	639.2	559.1
71°	*1027.4*	*1028.7*	*1029.6*	*998.0*	*969.1*	*898.3*	*872.5*	*785.2*	*703.8*	*637.9*	*557.8*
72.5°	1021.1	1027.8	*1026.9*	991.3	963.3	896.9	869.3	781.7	701.1	632.5	553.7
75°	1007.3	1019.4	*1014.0*	978.0	948.6	888.0	860.9	778.1	694.4	625.4	550.2
77.5°	995.3	1009.1	*1000.2*	966.8	940.6	881.8	856.4	779.0	689.5	621.0	548.8
80°	987.3	994.9	*987.7*	960.2	933.9	874.7	853.3	779.4	688.2	618.7	544.8
82.5°	975.3	972.2	*967.3*	945.5	918.8	861.8	840.9	772.3	685.1	614.3	540.4
85°	964.6	951.7	*951.7*	932.1	905.0	851.5	826.2	763.8	679.7	609.8	535.0
87.5°	970.8	953.5	*957.0*	938.3	908.5	852.9	823.5	763.0	681.9	610.7	531.9
90°	964.6	948.1	*949.9*	930.3	895.6	839.1	803.5	745.2	667.7	598.3	520.8
92.5°	953.9	936.6	*933.9*	913.9	878.7	825.3	787.9	733.6	656.6	588.5	516.8
95°	871.6	859.1	*853.8*	839.5	812.4	765.6	736.2	684.2	607.6	545.3	483.4
97.5°	787.0	789.2	*781.7*	764.7	734.9	698.4	665.9	616.1	551.5	497.7	437.6
100°	820.4	817.3	*809.7*	787.0	755.8	714.9	676.6	628.5	565.8	517.2	450.9
102.5°	856.9	864.0	*860.9*	832.4	797.2	764.3	735.4	687.3	618.3	567.1	496.3
105°	757.2	771.4	*774.5*	752.3	726.5	698.9	673.5	639.7	580.0	527.5	471.8
107.5°	660.1	662.4	*664.6*	647.7	634.8	610.3	584.9	554.2	508.8	468.7	414.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
110°	592.9	595.1	*591.6*	584.5	571.1	552.4	524.4	503.0	463.4	429.6	380.1
112.5°	539.5	541.7	*539.1*	530.2	518.1	503.4	474.1	456.3	422.4	390.8	346.3
115°	505.2	507.9	*503.4*	494.1	483.9	475.8	450.5	424.2	393.5	365.5	327.2
117.5°	472.7	478.1	*467.8*	465.2	457.6	449.6	420.7	397.5	370.8	345.4	314.7
120°	437.1	441.6	*433.1*	430.0	425.5	417.5	390.4	369.5	348.1	325.4	296.0
122.5°	408.6	402.4	*398.4*	398.4	393.1	387.7	359.7	342.3	325.4	306.3	276.0
125°	376.1	367.7	*365.9*	369.0	362.3	355.2	333.0	317.4	304.5	285.3	255.5
127.5°	339.6	331.6	*331.6*	333.0	329.0	321.8	307.1	294.2	286.2	265.7	235.9
130°	305.4	300.9	*301.8*	298.7	294.7	288.9	278.2	268.9	262.2	241.7	220.3
132.5°	264.4	269.3	*269.3*	264.0	263.1	258.6	250.2	245.7	235.5	218.6	200.8
135°	235.5	239.5	*239.0*	234.1	233.7	231.0	224.8	220.8	211.0	196.7	182.1
137.5°	211.0	211.0	*210.1*	207.0	205.2	204.8	199.0	195.0	185.6	175.8	163.8
140°	187.0	182.9	*181.6*	182.1	179.4	178.9	174.0	169.2	164.7	155.4	145.6
142.5°	162.0	159.4	*158.0*	156.2	155.4	154.0	150.9	146.9	142.4	136.2	127.3
145°	138.4	138.4	*137.5*	135.8	135.8	134.0	130.9	128.6	124.6	118.0	110.8
147.5°	120.2	118.9	*118.9*	118.4	117.1	116.2	113.5	110.4	107.7	102.4	95.7
150°	103.3	103.3	*102.4*	103.3	102.4	101.0	99.3	96.6	93.5	89.5	84.1
152.5°	89.9	90.4	*89.5*	90.8	89.9	89.0	86.8	85.0	81.5	77.9	74.3
155°	80.1	80.6	*80.1*	79.7	79.7	78.3	77.5	74.8	72.6	69.4	66.3
157.5°	71.2	71.7	*71.7*	71.7	71.7	70.3	68.6	66.8	65.0	62.3	59.6
160°	65.4	65.0	*65.0*	64.5	64.1	63.7	62.3	60.5	59.2	57.0	54.8
162.5°	59.6	59.6	*59.6*	59.2	58.8	58.3	57.4	55.6	54.3	52.5	50.7
165°	55.6	55.6	*55.6*	55.6	54.8	54.3	53.4	52.1	51.2	49.4	47.6
167.5°	53.0	53.0	*53.0*	52.5	52.1	51.6	51.2	49.9	49.0	47.6	46.3
170°	50.7	50.7	*50.7*	50.7	50.3	49.4	49.0	48.1	47.2	46.3	45.0
172.5°	48.5	48.5	*48.5*	48.5	48.1	48.1	47.6	46.7	46.3	45.0	44.5
175°	46.7	46.7	*46.7*	46.7	46.3	46.3	45.8	45.4	45.0	44.5	43.6
177.5°	45.4	45.4	*45.4*	45.4	45.0	45.0	45.0	44.5	44.1	43.6	43.6
180°	43.6	43.6	*43.6*	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
2.5°	33.4	33.4	32.5	32.0	31.6	30.7	29.8	28.5	28.5	28.5	28.0
5°	31.2	30.7	29.8	28.5	28.0	27.6	26.7	24.9	22.7	20.9	20.9
7.5°	28.9	26.7	24.5	23.6	22.3	20.0	17.8	15.1	12.0	11.6	11.6
10°	27.2	25.8	23.1	20.9	18.7	18.3	16.5	13.8	12.5	11.1	11.1
12.5°	26.7	25.8	22.7	20.0	17.4	16.0	14.7	13.4	12.0	11.1	11.1
15°	28.0	27.2	24.0	20.9	17.8	16.0	14.2	12.9	12.5	12.0	12.0
17.5°	35.2	33.8	29.4	24.5	20.5	17.8	15.6	14.2	13.8	13.4	13.4
20°	47.6	45.4	39.2	32.5	26.3	20.5	17.4	15.1	14.7	14.2	14.2
22.5°	67.7	63.7	53.0	42.7	33.4	25.8	20.0	16.0	14.7	14.2	14.2
25°	92.1	86.8	71.2	56.1	42.3	32.9	24.5	18.3	14.7	13.8	13.8
27.5°	124.6	115.3	94.4	75.2	56.5	41.8	30.7	21.8	16.0	13.8	13.4
30°	158.9	147.3	120.6	95.3	71.7	52.5	37.8	26.3	18.3	13.8	13.4
32.5°	196.3	180.7	151.3	119.7	89.0	65.0	46.3	30.7	20.9	14.7	13.8
35°	234.6	217.2	180.7	145.6	106.8	77.5	55.2	35.6	22.7	15.6	14.7
37.5°	273.3	253.7	214.1	168.7	124.2	90.4	64.1	41.0	24.5	16.5	15.6
40°	312.0	288.4	244.8	190.5	141.1	103.3	72.6	45.4	25.8	17.8	17.4
42.5°	342.3	318.3	270.2	208.8	158.9	114.8	81.0	49.0	27.2	20.0	19.1
45°	369.9	344.5	291.6	225.2	172.7	128.6	90.8	54.8	29.8	22.7	21.8
47.5°	397.9	373.0	313.8	241.3	186.1	142.4	102.4	61.0	36.9	29.4	28.9
50°	422.4	394.8	337.9	263.1	203.0	155.4	114.4	68.6	43.6	42.7	43.2
52.5°	446.0	418.4	358.3	279.1	214.6	170.9	126.0	71.7	49.4	50.3	51.2
55°	472.3	440.2	374.8	291.6	221.2	181.2	132.6	74.3	54.8	51.2	50.3
57.5°	490.1	453.1	388.2	305.4	228.4	187.4	133.1	77.5	59.2	49.4	48.1
60°	502.1	460.3	395.3	312.9	238.1	193.2	131.8	77.9	61.9	45.4	41.4
62.5°	510.1	469.6	401.5	314.7	245.7	197.6	131.3	76.1	61.0	40.5	37.4
65°	513.7	477.6	407.3	315.6	247.0	200.8	131.3	75.2	59.6	35.6	32.0
67.5°	513.7	480.3	409.5	317.4	246.2	201.6	127.3	77.9	57.9	33.8	29.4
70°	511.0	479.0	406.4	316.9	247.9	200.8	122.9	77.9	55.2	33.8	28.0
71°	*507.5*	*476.3*	*404.2*	*316.5*	*248.4*	*199.9*	*121.1*	*77.5*	*53.9*	*32.9*	*28.5*
72.5°	502.6	472.3	400.2	315.6	247.0	197.2	117.5	77.9	52.5	32.5	28.9
75°	497.2	469.2	397.1	312.0	246.6	193.2	111.3	76.6	52.1	32.9	29.8
77.5°	495.4	469.6	395.3	311.1	246.6	191.0	106.8	75.7	51.2	33.4	31.6
80°	491.4	468.7	391.7	308.9	245.7	187.0	105.5	75.7	50.3	33.8	32.5
82.5°	487.4	466.5	388.6	306.7	244.4	181.6	104.2	75.2	49.4	35.2	34.3
85°	483.9	466.1	388.6	305.4	243.9	178.5	103.7	74.8	49.0	36.5	35.6
87.5°	483.9	468.3	392.6	308.9	247.9	178.5	105.5	75.7	49.4	38.3	37.8
90°	475.0	458.5	386.4	306.7	249.3	178.9	107.3	77.9	51.2	40.1	39.2
92.5°	472.3	454.0	384.6	308.9	251.1	178.9	109.5	80.1	52.5	41.0	40.1
95°	442.9	422.4	361.9	293.3	239.9	174.0	110.4	79.7	53.4	41.4	41.0
97.5°	402.0	379.7	322.7	260.8	212.3	156.2	100.6	74.8	53.0	42.7	41.8
100°	415.8	389.5	329.8	265.3	208.8	153.1	98.8	72.6	54.3	44.5	43.6
102.5°	454.0	425.5	362.8	293.8	227.5	169.2	110.4	77.0	57.0	46.7	45.4
105°	431.3	399.7	350.3	284.4	221.7	169.2	110.8	78.3	59.6	48.5	47.6
107.5°	381.0	351.7	308.5	253.3	203.0	156.2	105.1	76.1	61.9	50.7	49.4

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

Scaled Data Report

REPORT NUMBER: P1045972
CATALOG NUMBER: FFX-CLB-40-727-U-PG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	352.1	320.5	280.9	231.0	188.7	145.1	101.0	74.8	63.2	53.4	51.6
112.5°	321.4	294.2	256.0	212.3	175.8	134.0	98.4	74.3	64.1	56.1	54.3
115°	304.0	276.0	243.0	200.8	167.4	130.4	97.5	76.6	67.2	59.6	57.9
117.5°	288.9	265.7	236.4	191.9	161.6	129.1	99.3	79.2	69.4	62.8	60.5
120°	273.3	251.9	225.2	184.7	156.7	124.6	99.7	80.6	71.2	65.4	64.1
122.5°	264.0	239.9	213.7	178.5	150.9	121.5	99.3	82.3	71.7	66.8	66.8
125°	246.6	227.5	201.2	170.5	142.4	119.7	99.3	81.5	73.0	68.6	67.7
127.5°	227.5	215.0	188.7	161.6	136.7	115.3	96.6	81.5	72.6	68.6	68.6
130°	209.7	198.5	177.2	149.6	131.3	109.1	92.6	77.5	69.9	67.2	67.2
132.5°	189.6	182.5	162.5	138.0	120.6	101.5	87.2	71.7	65.4	63.2	63.2
135°	171.4	164.7	146.0	125.5	109.9	94.4	81.0	67.7	60.1	57.4	57.4
137.5°	154.5	148.2	131.8	114.4	100.2	87.2	74.8	63.7	56.1	53.0	53.4
140°	137.1	129.5	118.4	103.7	90.8	80.6	68.6	59.6	52.5	49.9	49.4
142.5°	121.5	115.7	105.5	93.0	81.9	73.9	63.2	55.6	49.9	47.2	46.7
145°	107.3	102.4	93.5	83.2	74.3	66.8	58.3	52.1	47.2	45.0	44.5
147.5°	92.1	89.0	82.3	74.3	66.8	60.1	54.3	48.5	45.4	42.7	42.3
150°	81.0	78.8	73.4	66.8	61.0	55.6	51.2	45.8	43.2	41.4	41.0
152.5°	72.1	69.9	65.4	60.5	55.6	51.6	47.6	44.1	41.4	40.1	39.6
155°	64.5	62.8	59.2	55.2	51.2	47.6	44.5	41.8	40.1	38.7	38.7
157.5°	58.8	57.0	54.3	50.7	47.6	44.5	42.3	40.1	39.2	37.8	37.8
160°	53.9	52.5	50.3	47.2	44.5	42.3	40.5	38.7	38.3	37.4	37.4
162.5°	49.9	49.0	46.7	44.5	42.7	41.0	39.6	38.3	37.4	36.9	36.9
165°	47.2	46.3	45.0	43.2	41.4	40.1	39.2	37.8	37.4	37.4	36.9
167.5°	45.8	45.0	43.6	41.8	40.5	40.1	39.2	38.3	37.8	37.8	37.4
170°	44.5	44.1	43.2	41.8	40.5	40.1	39.6	38.7	38.7	38.3	38.3
172.5°	44.1	43.6	42.7	41.8	41.0	40.5	40.1	39.6	39.6	39.6	39.2
175°	43.6	43.6	42.7	41.8	41.4	41.4	41.0	40.5	40.5	40.5	40.5
177.5°	43.6	43.2	43.2	42.7	42.3	42.3	42.3	41.8	41.8	41.8	41.8
180°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6

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

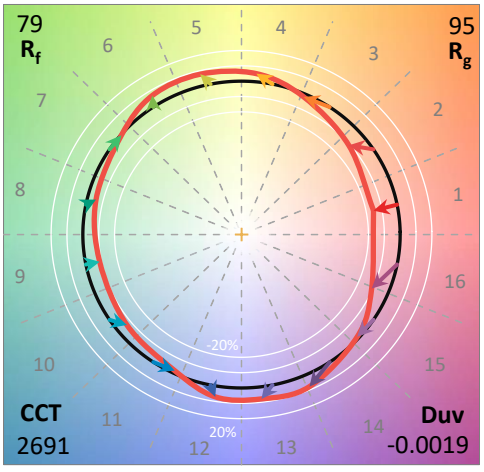
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

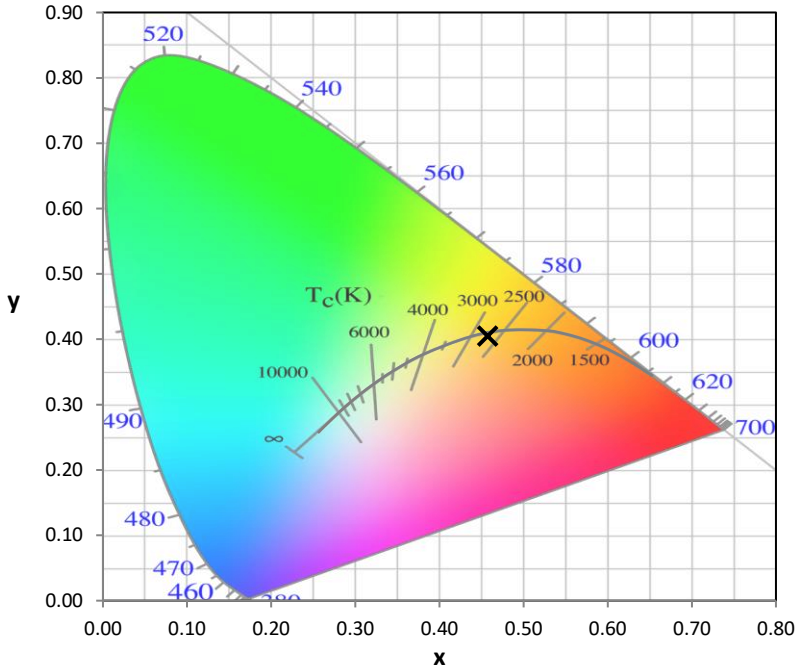
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

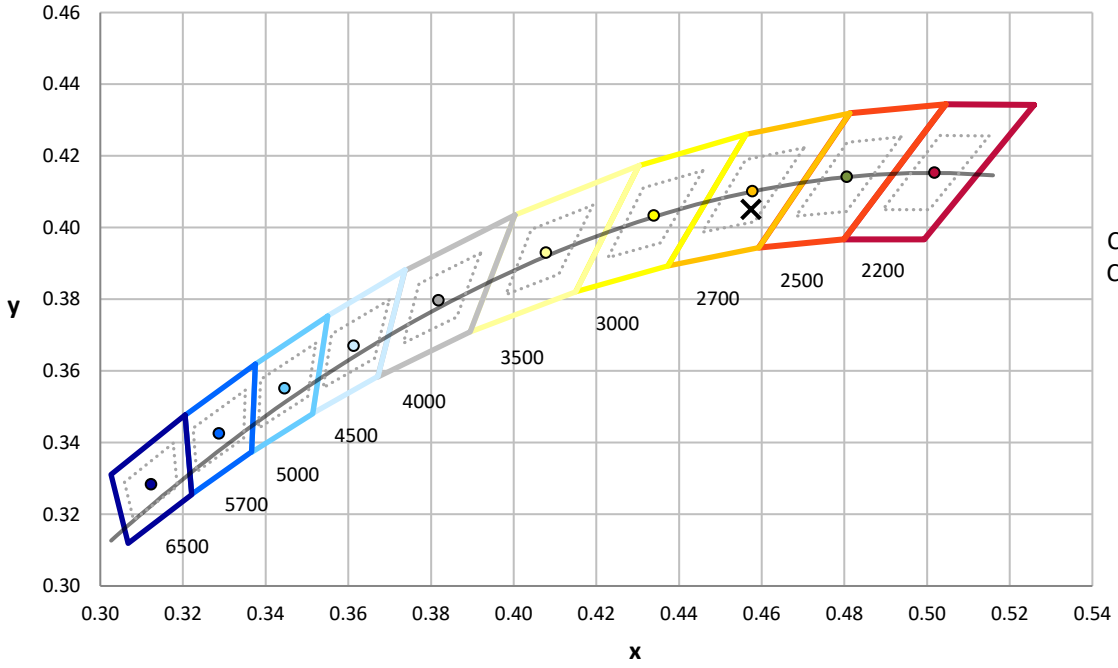
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

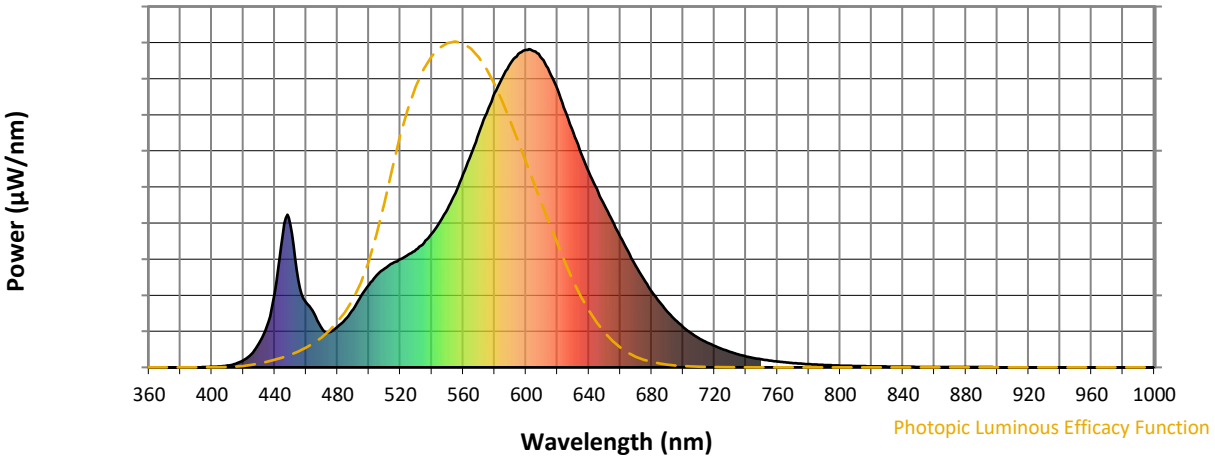


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

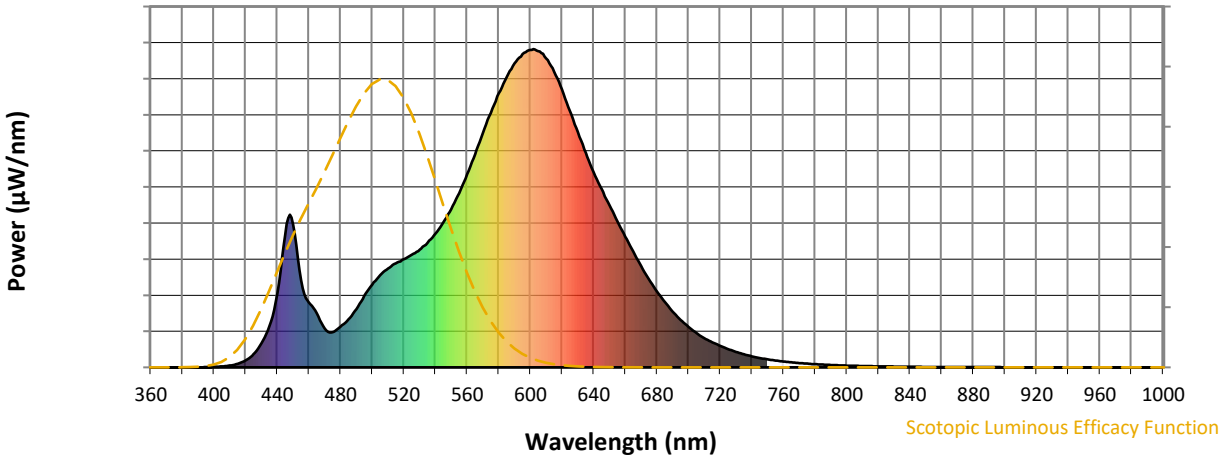


Photopic Lumens: NR

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

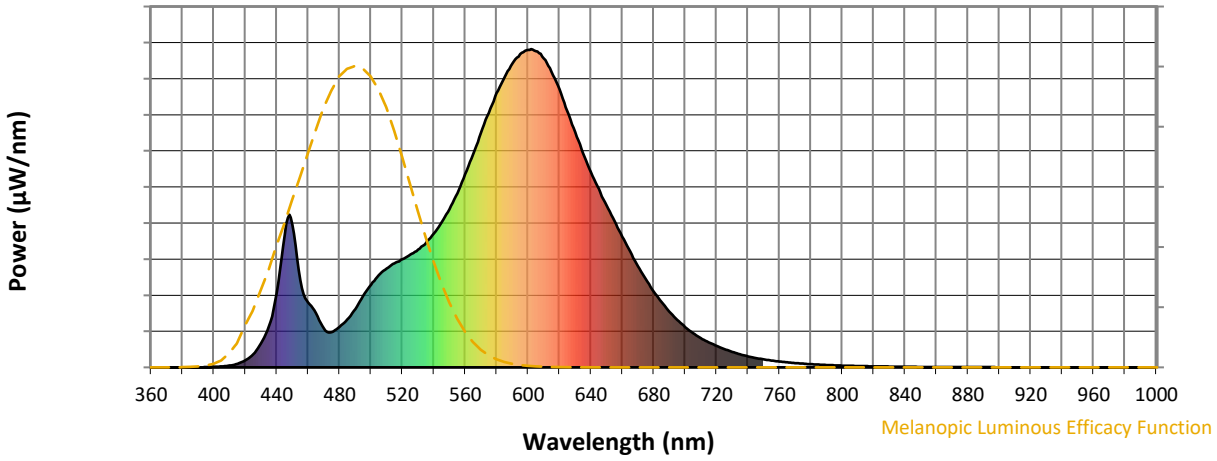


Scotopic Lumens: NR **S/P: 1.18**

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			

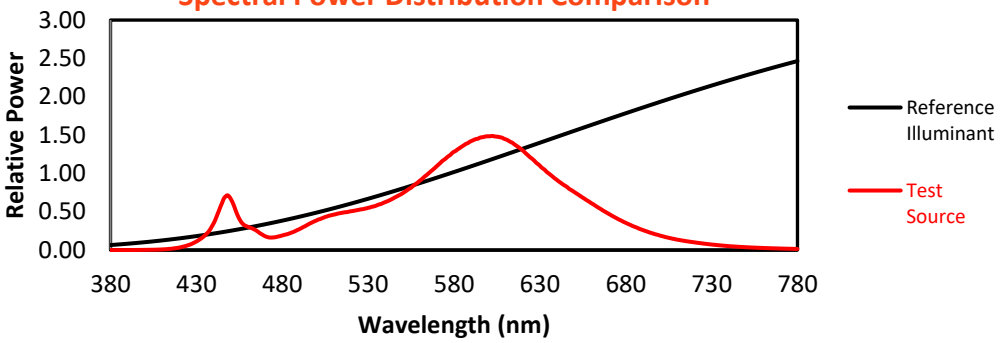
REPORT NUMBER: SP1-2501-332-8

TM-30-18

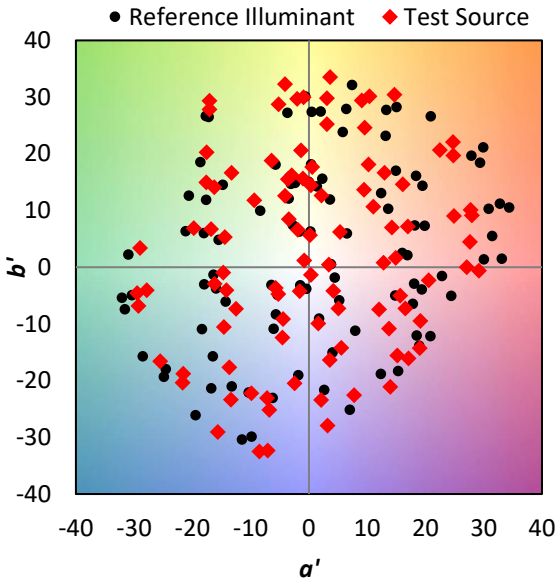
Summary

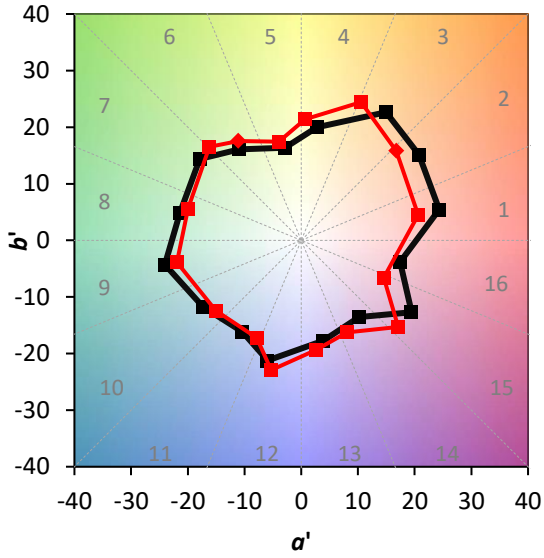
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

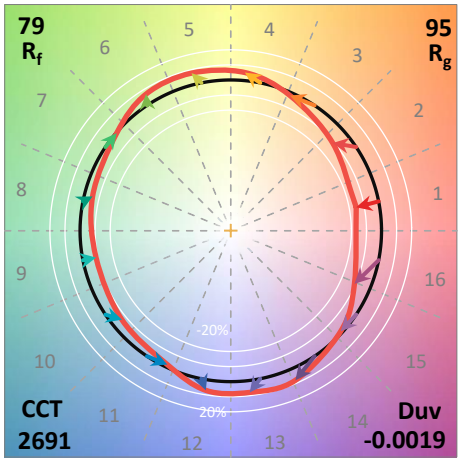
Spectral Power Distribution Comparison

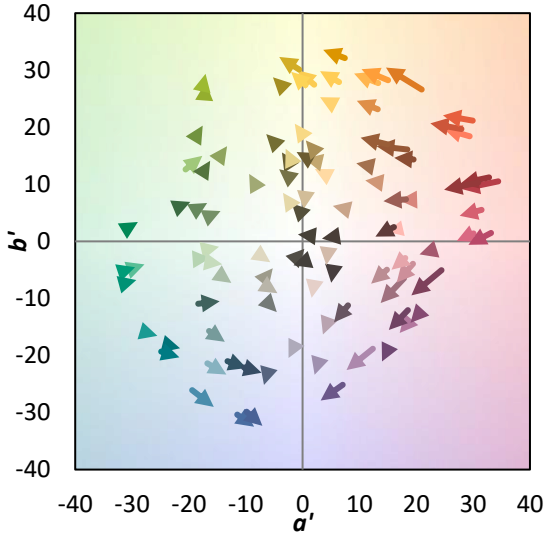


Color Vector Graphics







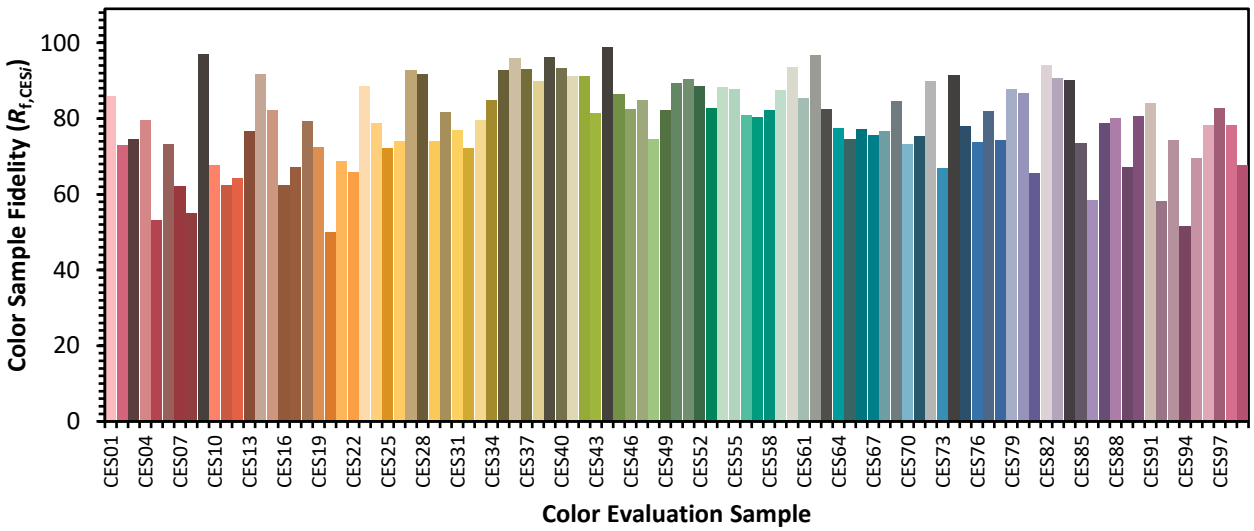


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

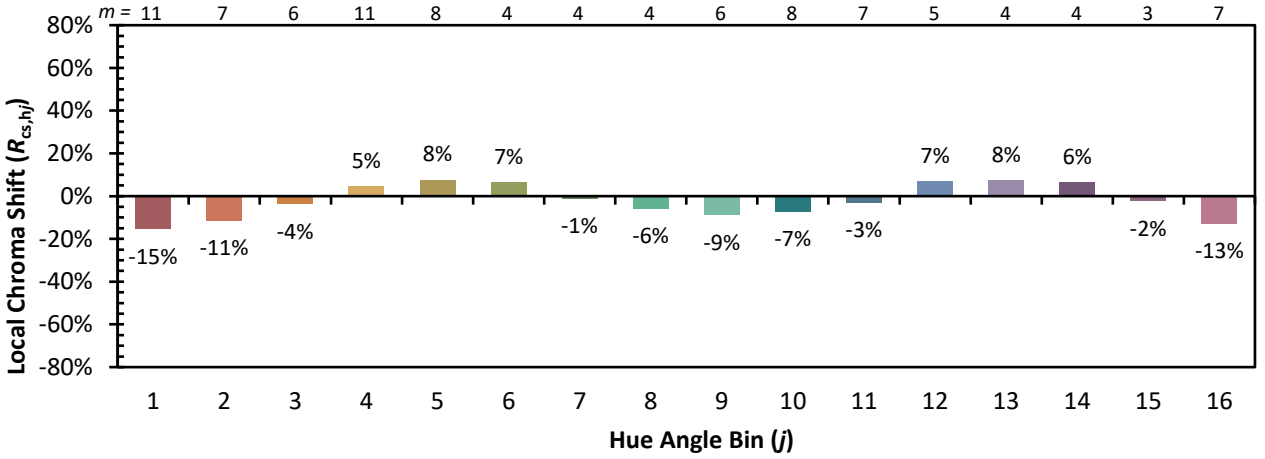
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

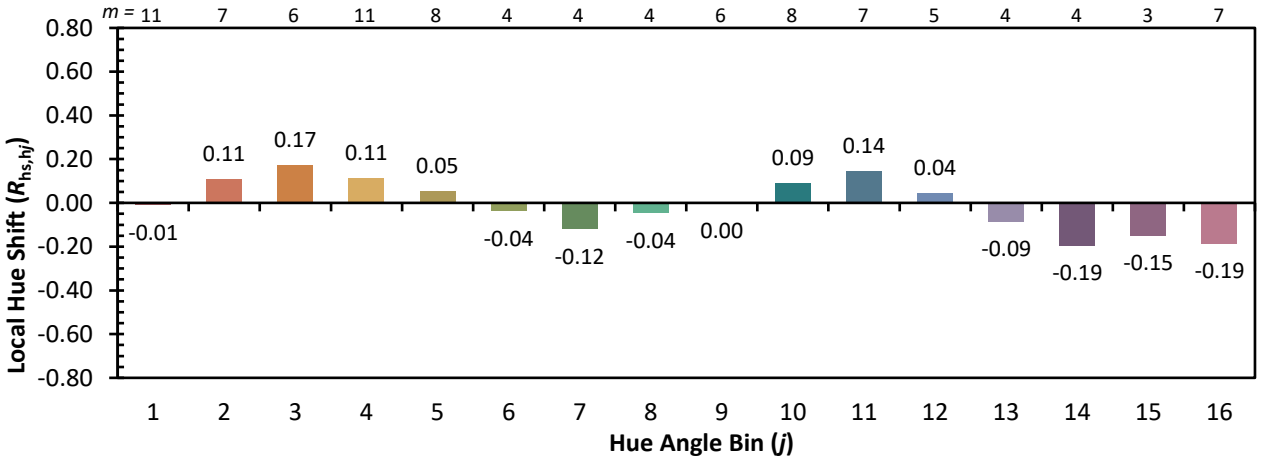


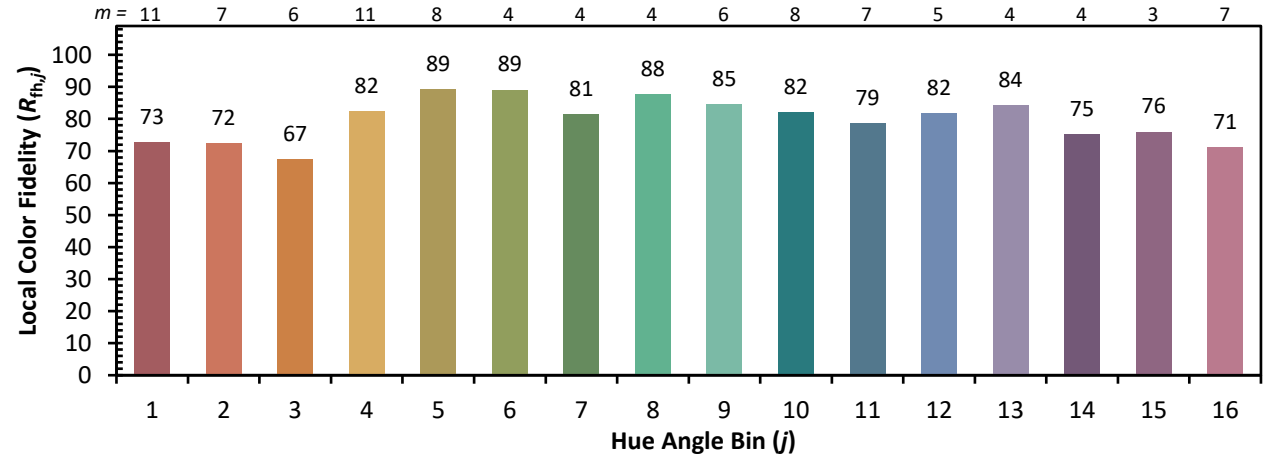
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Color Rendition by Hue-Angle Bin



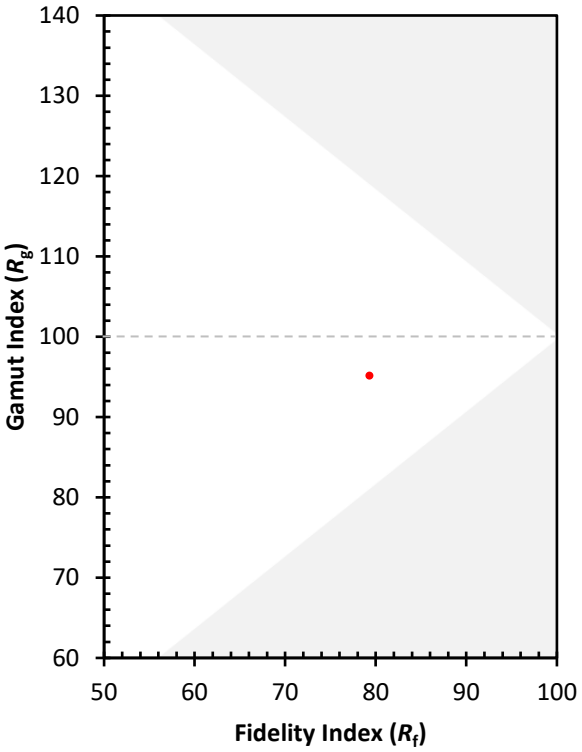


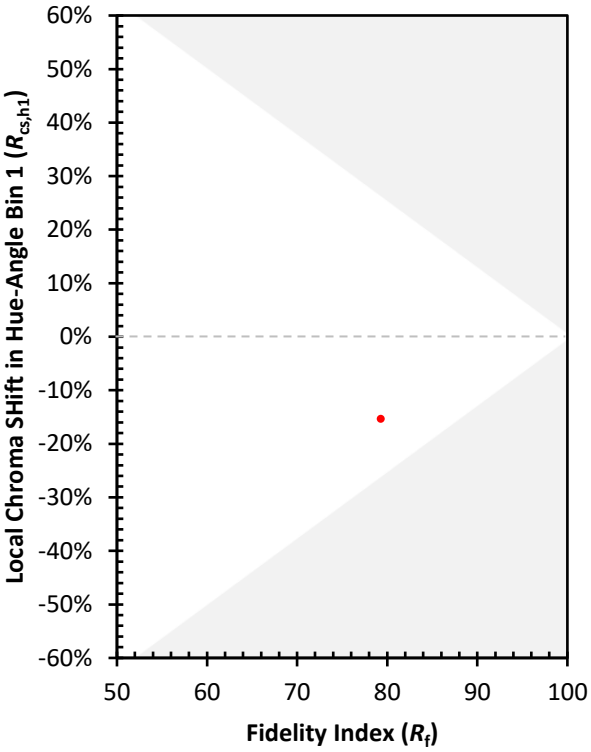


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Measure Comparisons





(END OF REPORT)