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: P1045991

Luminaire Tested: **FFX-CLB-30-740-U-PG-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045991
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-740-U-PG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3536.6 lumens
Efficiency:	N/A
Efficacy:	115.6 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):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

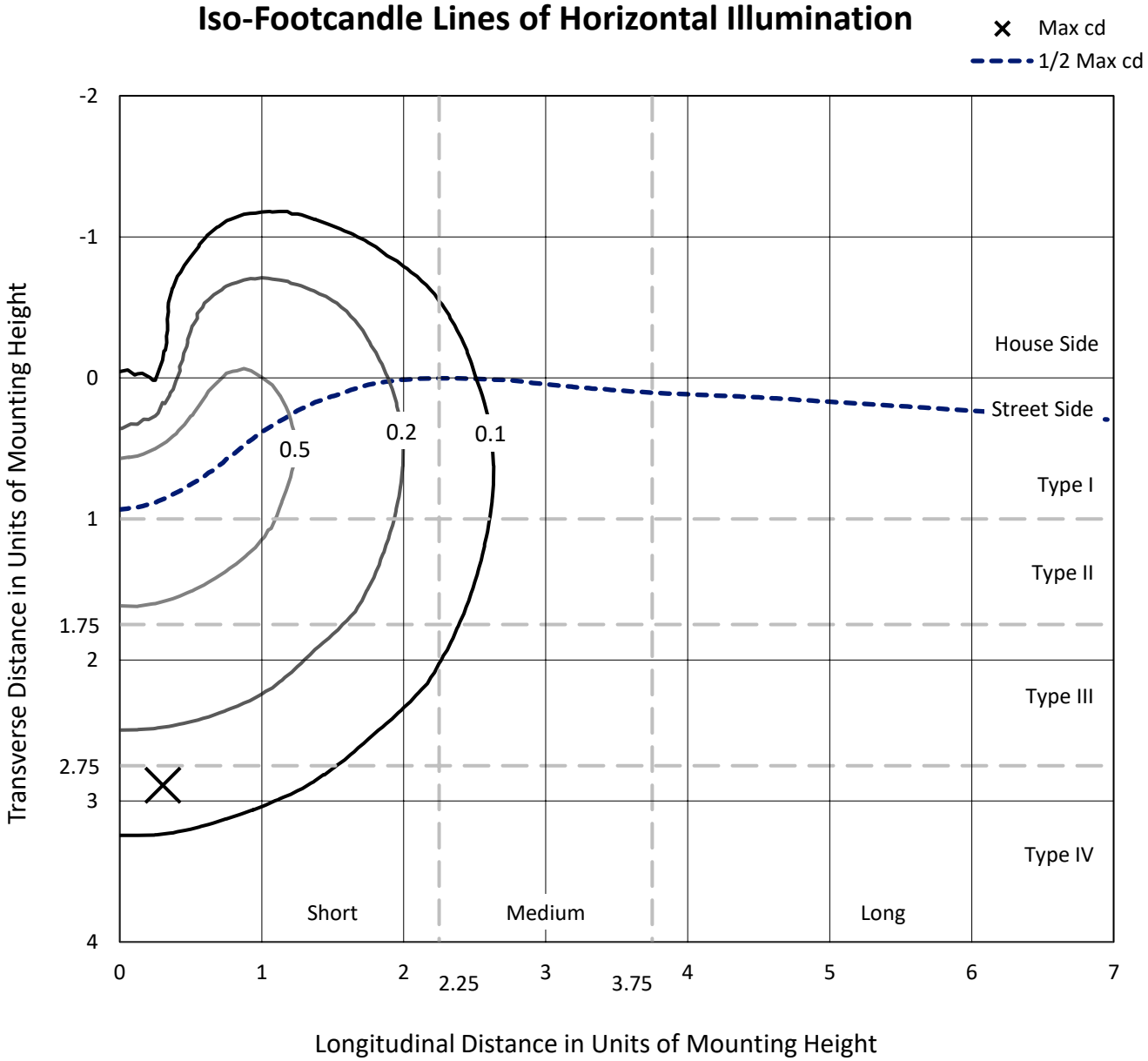


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Iso-Footcandle Lines of Horizontal Illumination



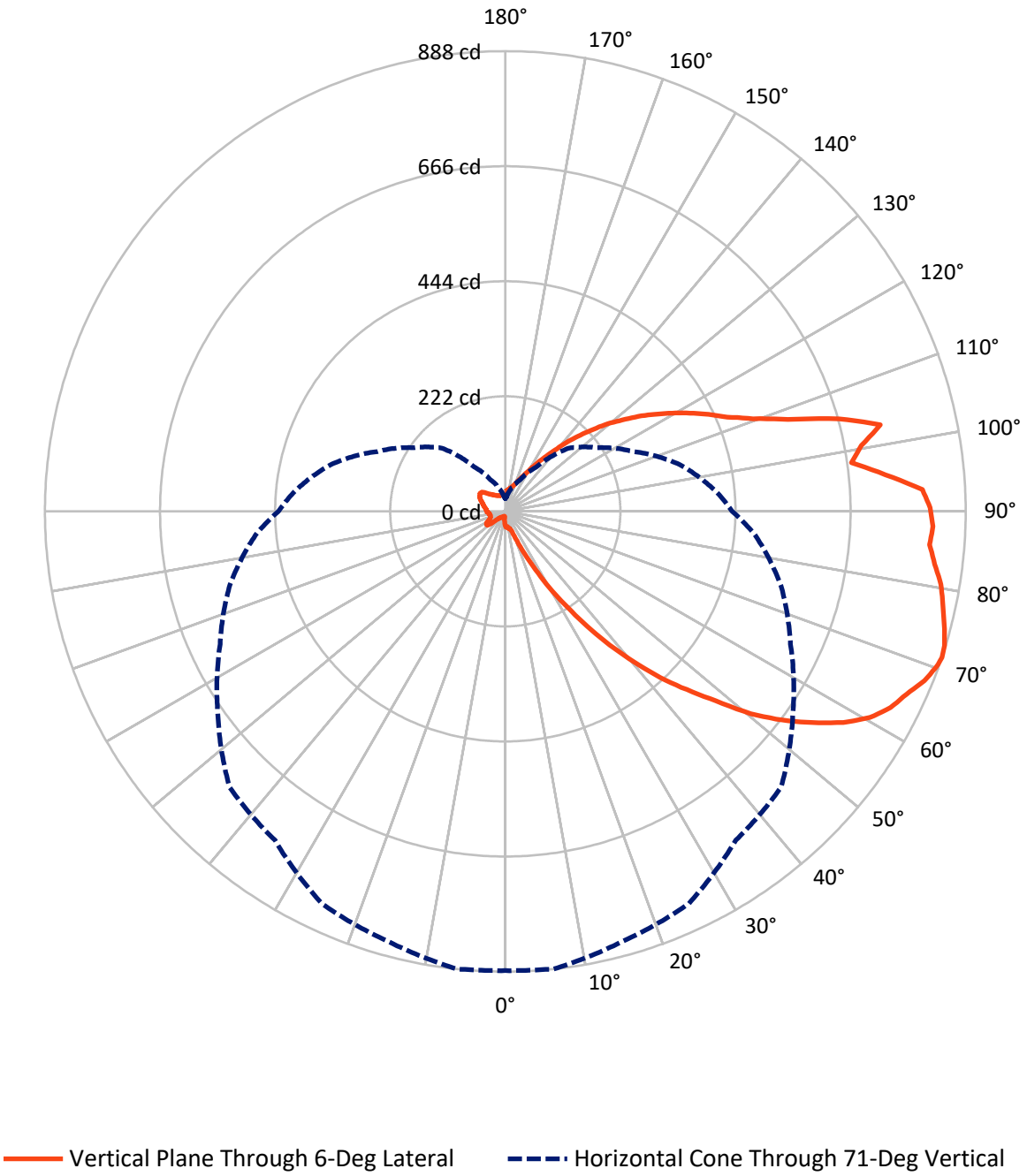
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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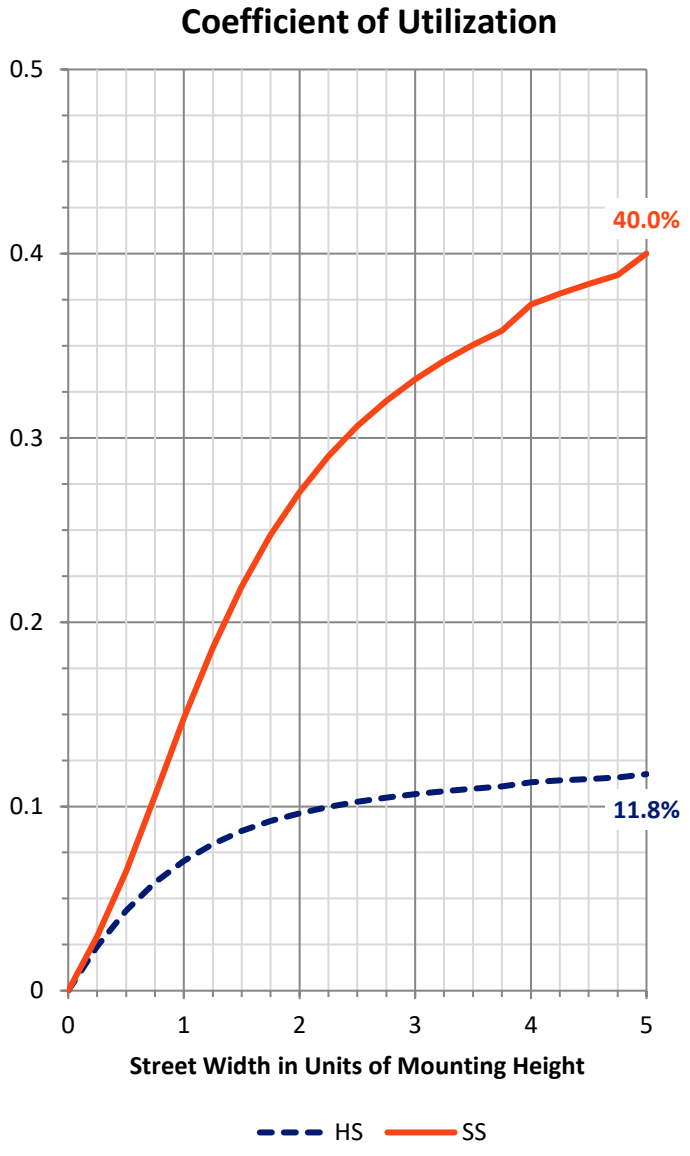
REPORT NUMBER: P1045991
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	454.1	360.1	814.3
	% Fixture	12.8	10.2	23.0
Street Side	Lumens	1656.6	1065.7	2722.3
	% Fixture	46.8	30.1	77.0
Total	Lumens	2110.7	1425.8	3536.6
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.1
10°-20°	7.4	0.2
20°-30°	33.6	0.9
30°-40°	112.3	3.2
40°-50°	228.8	6.5
50°-60°	352.0	10.0
60°-70°	438.1	12.4
70°-80°	468.5	13.2
80°-90°	467.7	13.2
90°-100°	422.7	12.0
100°-110°	369.7	10.5
110°-120°	252.0	7.1
120°-130°	178.0	5.0
130°-140°	107.9	3.1
140°-150°	54.7	1.5
150°-160°	25.5	0.7
160°-170°	11.7	0.3
170°-180°	3.6	0.1
0°-90°	2110.7	59.7
0°-180°	3536.6	100.0



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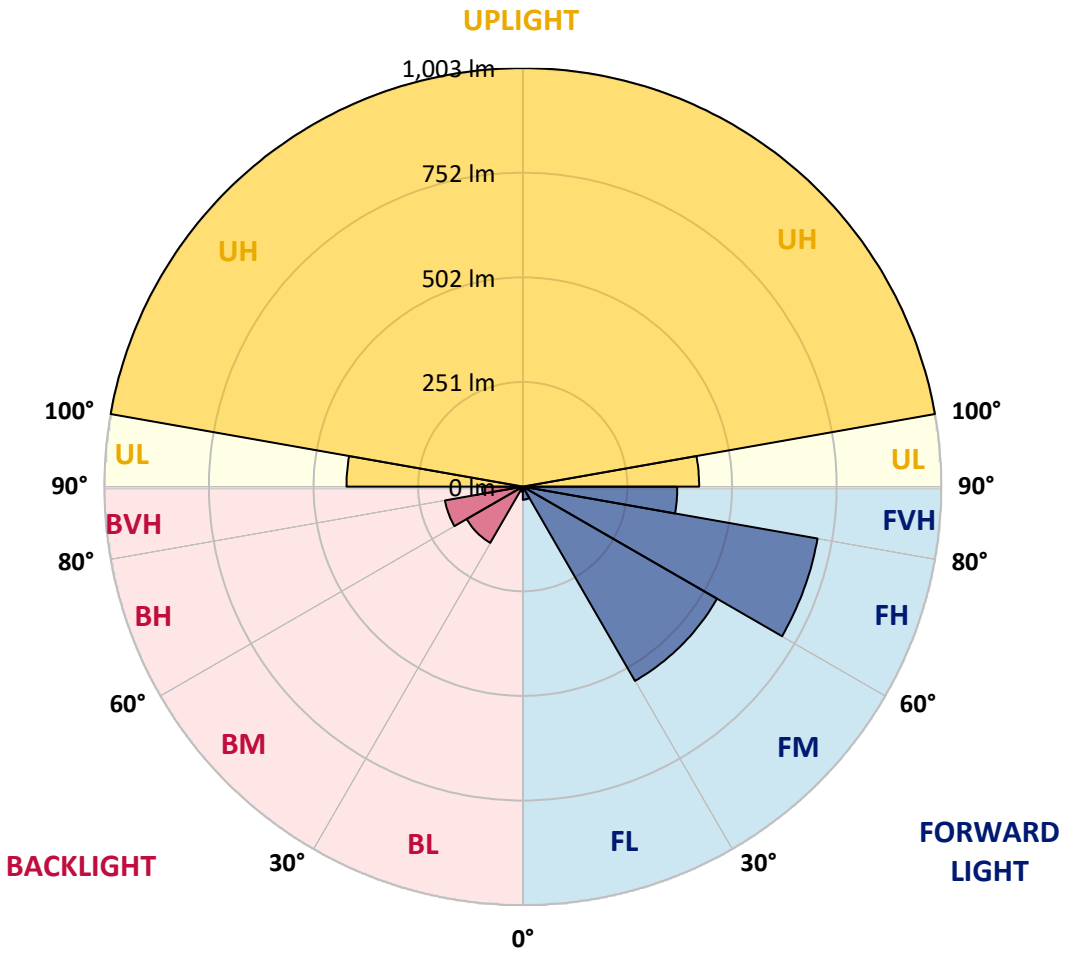
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	31.3	0.9			
FM	(30°-60°)	537.6	15.2			
FH	(60°-80°)	717.3	20.3			G1/1800
FVH	(80°-90°)	370.4	10.5			G3/500
BL	(0°-30°)	12.0	0.3	B0/110		
BM	(30°-60°)	155.5	4.4	B0/220		
BH	(60°-80°)	189.3	5.4	B1/500		G1/500
BVH	(80°-90°)	97.3	2.8			G1/100
UL	(90°-100°)	422.7	12.0		U3/500	
UH	(100°-180°)	1003.1	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°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	31.1	31.1	31.1	31.1	31.1	31.1	30.7	30.0	29.6	29.2	28.8
5°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.2	28.8	28.0	27.3
7.5°	29.6	29.6	29.6	29.6	29.2	28.8	28.4	28.0	27.7	26.1	24.6
10°	32.3	32.6	32.3	32.3	31.1	30.0	29.2	28.0	27.3	26.5	24.6
12.5°	34.2	34.2	34.2	33.8	33.0	32.3	30.7	28.8	27.3	25.7	24.2
15°	35.3	35.3	35.3	35.3	34.6	33.4	32.3	30.7	29.2	27.3	25.3
17.5°	39.9	39.9	39.9	39.6	38.8	38.0	37.3	36.5	35.3	33.4	31.5
20°	52.6	53.8	53.4	52.2	51.5	50.7	51.1	50.3	49.5	46.9	43.8
22.5°	73.0	74.5	74.1	74.5	73.4	72.6	72.2	73.0	71.4	67.6	61.8
25°	102.5	102.5	101.4	104.5	104.8	101.0	101.8	101.4	100.2	93.3	84.1
27.5°	135.6	134.8	134.4	139.4	140.2	138.6	140.2	137.5	133.7	126.0	114.4
30°	174.0	177.1	178.6	179.4	181.7	183.2	185.1	182.8	172.4	163.2	147.1
32.5°	222.8	220.8	220.4	228.5	232.7	233.1	237.7	231.2	219.7	202.4	181.3
35°	276.5	271.9	272.7	277.7	284.6	289.6	293.0	280.4	268.5	245.8	218.1
37.5°	327.2	327.6	327.2	329.1	342.2	343.7	344.5	330.3	313.0	289.6	255.0
40°	379.1	379.8	381.8	387.9	401.7	399.0	392.9	380.2	357.9	331.4	290.7
42.5°	432.4	437.4	438.6	441.7	451.3	450.5	440.1	425.9	400.2	367.2	321.5
45°	489.7	488.9	490.8	495.0	502.7	502.7	484.3	463.6	435.5	398.3	349.1
47.5°	543.8	549.6	546.1	556.5	552.7	555.3	523.9	498.5	467.8	423.6	372.2
50°	612.2	615.3	614.1	613.0	601.4	601.4	569.2	535.0	500.4	448.2	395.2
52.5°	670.2	671.3	669.4	664.8	648.7	643.3	605.3	565.7	529.2	477.0	417.5
55°	723.9	716.3	719.7	712.4	687.1	681.3	645.2	589.1	554.6	497.7	436.7
57.5°	763.5	767.7	768.9	753.1	727.8	704.4	680.2	617.2	573.8	517.3	449.3
60°	797.3	808.8	808.1	784.2	762.0	720.1	706.7	641.8	586.5	534.6	463.2
62.5°	822.7	834.9	834.2	815.0	795.0	736.2	721.3	656.4	594.1	543.4	473.5
65°	847.6	853.4	850.7	843.0	819.2	751.2	735.1	662.9	600.7	547.3	477.4
67.5°	873.0	872.6	872.2	861.4	835.7	765.0	746.2	672.5	607.2	551.5	480.1
70°	885.6	886.4	886.0	863.4	839.5	774.3	752.4	677.5	608.7	551.5	482.4
71°	886.4	887.6	888.3	861.1	836.1	775.0	752.8	677.5	607.2	550.4	481.2
72.5°	881.0	886.8	886.0	855.3	831.1	773.9	750.1	674.4	604.9	545.7	477.8
75°	869.1	879.5	874.9	843.8	818.4	766.2	742.8	671.3	599.1	539.6	474.7
77.5°	858.8	870.7	863.0	834.2	811.5	760.8	738.9	672.1	594.9	535.8	473.5
80°	851.8	858.4	852.2	828.4	805.8	754.7	736.2	672.5	593.8	533.8	470.1
82.5°	841.5	838.8	834.6	815.7	792.7	743.5	725.5	666.3	591.1	530.0	466.2
85°	832.3	821.1	821.1	804.2	780.8	734.7	712.8	659.0	586.5	526.2	461.6
87.5°	837.6	822.7	825.7	809.6	783.9	735.9	710.5	658.3	588.4	526.9	458.9
90°	832.3	818.0	819.6	802.7	772.7	723.9	693.2	642.9	576.1	516.2	449.3
92.5°	823.0	808.1	805.8	788.5	758.1	712.0	679.8	632.9	566.5	507.7	445.9
95°	752.0	741.2	736.6	724.3	700.9	660.6	635.2	590.3	524.2	470.5	417.1
97.5°	679.0	680.9	674.4	659.8	634.1	602.6	574.5	531.5	475.8	429.4	377.5
100°	707.8	705.1	698.6	679.0	652.1	616.8	583.8	542.3	488.1	446.3	389.1
102.5°	739.3	745.5	742.8	718.2	687.8	659.4	634.5	593.0	533.5	489.3	428.2
105°	653.3	665.6	668.3	649.1	626.8	603.0	581.1	551.9	500.4	455.1	407.1
107.5°	569.6	571.5	573.4	558.8	547.7	526.5	504.7	478.2	439.0	404.4	357.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
110°	511.6	513.5	*510.4*	504.3	492.7	476.6	452.4	434.0	399.8	370.6	328.0
112.5°	465.5	467.4	*465.1*	457.4	447.0	434.4	409.0	393.7	364.5	337.2	298.8
115°	435.9	438.2	*434.4*	426.3	417.5	410.6	388.7	366.0	339.5	315.3	282.3
117.5°	407.9	412.5	*403.6*	401.3	394.8	387.9	362.9	343.0	319.9	298.0	271.5
120°	377.1	381.0	*373.7*	371.0	367.2	360.2	336.8	318.8	300.3	280.7	255.4
122.5°	352.6	347.2	*343.7*	343.7	339.1	334.5	310.3	295.3	280.7	264.2	238.1
125°	324.5	317.2	*315.7*	318.4	312.6	306.5	287.3	273.8	262.7	246.2	220.4
127.5°	293.0	286.1	*286.1*	287.3	283.8	277.7	265.0	253.9	246.9	229.3	203.6
130°	263.5	259.6	*260.4*	257.7	254.2	249.3	240.0	232.0	226.2	208.5	190.1
132.5°	228.1	232.4	*232.4*	227.7	227.0	223.1	215.8	212.0	203.2	188.6	173.2
135°	203.2	206.6	*206.2*	202.0	201.6	199.3	193.9	190.5	182.0	169.8	157.1
137.5°	182.0	182.0	*181.3*	178.6	177.1	176.7	171.7	168.2	160.2	151.7	141.3
140°	161.3	157.8	*156.7*	157.1	154.8	154.4	150.2	145.9	142.1	134.0	125.6
142.5°	139.8	137.5	*136.3*	134.8	134.0	132.9	130.2	126.7	122.9	117.5	109.8
145°	119.4	119.4	*118.7*	117.1	117.1	115.6	112.9	111.0	107.5	101.8	95.6
147.5°	103.7	102.5	*102.5*	102.2	101.0	100.2	97.9	95.2	92.9	88.3	82.6
150°	89.1	89.1	*88.3*	89.1	88.3	87.2	85.6	83.3	80.7	77.2	72.6
152.5°	77.6	78.0	*77.2*	78.3	77.6	76.8	74.9	73.4	70.3	67.2	64.1
155°	69.1	69.5	*69.1*	68.7	68.7	67.6	66.8	64.5	62.6	59.9	57.2
157.5°	61.4	61.8	*61.8*	61.8	61.8	60.7	59.1	57.6	56.1	53.8	51.5
160°	56.5	56.1	*56.1*	55.7	55.3	54.9	53.8	52.2	51.1	49.2	47.2
162.5°	51.5	51.5	*51.5*	51.1	50.7	50.3	49.5	48.0	46.9	45.3	43.8
165°	48.0	48.0	*48.0*	48.0	47.2	46.9	46.1	44.9	44.2	42.6	41.1
167.5°	45.7	45.7	*45.7*	45.3	44.9	44.6	44.2	43.0	42.2	41.1	39.9
170°	43.8	43.8	*43.8*	43.8	43.4	42.6	42.2	41.5	40.7	39.9	38.8
172.5°	41.9	41.9	*41.9*	41.9	41.5	41.5	41.1	40.3	39.9	38.8	38.4
175°	40.3	40.3	*40.3*	40.3	39.9	39.9	39.6	39.2	38.8	38.4	37.6
177.5°	39.2	39.2	*39.2*	39.2	38.8	38.8	38.8	38.4	38.0	37.6	37.6
180°	37.6	37.6	*37.6*	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	28.8	28.8	28.0	27.7	27.3	26.5	25.7	24.6	24.6	24.6	24.2
5°	26.9	26.5	25.7	24.6	24.2	23.8	23.0	21.5	19.6	18.1	18.1
7.5°	25.0	23.0	21.1	20.4	19.2	17.3	15.4	13.1	10.4	10.0	10.0
10°	23.4	22.3	20.0	18.1	16.1	15.7	14.2	11.9	10.8	9.6	9.6
12.5°	23.0	22.3	19.6	17.3	15.0	13.8	12.7	11.5	10.4	9.6	9.6
15°	24.2	23.4	20.7	18.1	15.4	13.8	12.3	11.1	10.8	10.4	10.4
17.5°	30.3	29.2	25.3	21.1	17.7	15.4	13.4	12.3	11.9	11.5	11.5
20°	41.1	39.2	33.8	28.0	22.7	17.7	15.0	13.1	12.7	12.3	12.3
22.5°	58.4	54.9	45.7	36.9	28.8	22.3	17.3	13.8	12.7	12.3	12.3
25°	79.5	74.9	61.4	48.4	36.5	28.4	21.1	15.7	12.7	11.9	11.9
27.5°	107.5	99.5	81.4	64.9	48.8	36.1	26.5	18.8	13.8	11.9	11.5
30°	137.1	127.1	104.1	82.2	61.8	45.3	32.6	22.7	15.7	11.9	11.5
32.5°	169.4	155.9	130.6	103.3	76.8	56.1	39.9	26.5	18.1	12.7	11.9
35°	202.4	187.4	155.9	125.6	92.2	66.8	47.6	30.7	19.6	13.4	12.7
37.5°	235.8	218.9	184.7	145.6	107.2	78.0	55.3	35.3	21.1	14.2	13.4
40°	269.2	248.9	211.2	164.4	121.7	89.1	62.6	39.2	22.3	15.4	15.0
42.5°	295.3	274.6	233.1	180.1	137.1	99.1	69.9	42.2	23.4	17.3	16.5
45°	319.2	297.3	251.6	194.3	149.0	111.0	78.3	47.2	25.7	19.6	18.8
47.5°	343.3	321.8	270.8	208.2	160.5	122.9	88.3	52.6	31.9	25.3	25.0
50°	364.5	340.7	291.5	227.0	175.1	134.0	98.7	59.1	37.6	36.9	37.3
52.5°	384.8	361.0	309.2	240.8	185.1	147.5	108.7	61.8	42.6	43.4	44.2
55°	407.5	379.8	323.4	251.6	190.9	156.3	114.4	64.1	47.2	44.2	43.4
57.5°	422.8	391.0	334.9	263.5	197.0	161.7	114.8	66.8	51.1	42.6	41.5
60°	433.2	397.1	341.0	270.0	205.5	166.7	113.7	67.2	53.4	39.2	35.7
62.5°	440.1	405.2	346.4	271.5	212.0	170.5	113.3	65.7	52.6	34.9	32.3
65°	443.2	412.1	351.4	272.3	213.2	173.2	113.3	64.9	51.5	30.7	27.7
67.5°	443.2	414.4	353.3	273.8	212.4	174.0	109.8	67.2	49.9	29.2	25.3
70°	440.9	413.2	350.6	273.4	213.9	173.2	106.0	67.2	47.6	29.2	24.2
71°	*437.8*	*410.9*	*348.7*	*273.1*	*214.3*	*172.4*	*104.5*	*66.8*	*46.5*	*28.4*	*24.6*
72.5°	433.6	407.5	345.3	272.3	213.2	170.1	101.4	67.2	45.3	28.0	25.0
75°	429.0	404.8	342.6	269.2	212.8	166.7	96.0	66.1	44.9	28.4	25.7
77.5°	427.5	405.2	341.0	268.5	212.8	164.8	92.2	65.3	44.2	28.8	27.3
80°	424.0	404.4	338.0	266.5	212.0	161.3	91.0	65.3	43.4	29.2	28.0
82.5°	420.5	402.5	335.3	264.6	210.8	156.7	89.9	64.9	42.6	30.3	29.6
85°	417.5	402.1	335.3	263.5	210.5	154.0	89.5	64.5	42.2	31.5	30.7
87.5°	417.5	404.0	338.7	266.5	213.9	154.0	91.0	65.3	42.6	33.0	32.6
90°	409.8	395.6	333.4	264.6	215.1	154.4	92.6	67.2	44.2	34.6	33.8
92.5°	407.5	391.7	331.8	266.5	216.6	154.4	94.5	69.1	45.3	35.3	34.6
95°	382.1	364.5	312.2	253.1	207.0	150.2	95.2	68.7	46.1	35.7	35.3
97.5°	346.8	327.6	278.4	225.1	183.2	134.8	86.8	64.5	45.7	36.9	36.1
100°	358.7	336.1	284.6	228.9	180.1	132.1	85.3	62.6	46.9	38.4	37.6
102.5°	391.7	367.2	313.0	253.5	196.3	145.9	95.2	66.4	49.2	40.3	39.2
105°	372.2	344.9	302.3	245.4	191.3	145.9	95.6	67.6	51.5	41.9	41.1
107.5°	328.8	303.4	266.2	218.5	175.1	134.8	90.6	65.7	53.4	43.8	42.6

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

Scaled Data Report

REPORT NUMBER: P1045991
CATALOG NUMBER: FFX-CLB-30-740-U-PG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	303.8	276.5	242.3	199.3	162.8	125.2	87.2	64.5	54.5	46.1	44.6
112.5°	277.3	253.9	220.8	183.2	151.7	115.6	84.9	64.1	55.3	48.4	46.9
115°	262.3	238.1	209.7	173.2	144.4	112.5	84.1	66.1	58.0	51.5	49.9
117.5°	249.3	229.3	203.9	165.5	139.4	111.4	85.6	68.4	59.9	54.2	52.2
120°	235.8	217.4	194.3	159.4	135.2	107.5	86.0	69.5	61.4	56.5	55.3
122.5°	227.7	207.0	184.3	154.0	130.2	104.8	85.6	71.1	61.8	57.6	57.6
125°	212.8	196.3	173.6	147.1	122.9	103.3	85.6	70.3	63.0	59.1	58.4
127.5°	196.3	185.5	162.8	139.4	117.9	99.5	83.3	70.3	62.6	59.1	59.1
130°	180.9	171.3	152.9	129.0	113.3	94.1	79.9	66.8	60.3	58.0	58.0
132.5°	163.6	157.5	140.2	119.1	104.1	87.6	75.3	61.8	56.5	54.5	54.5
135°	147.9	142.1	126.0	108.3	94.9	81.4	69.9	58.4	51.8	49.5	49.5
137.5°	133.3	127.9	113.7	98.7	86.4	75.3	64.5	54.9	48.4	45.7	46.1
140°	118.3	111.8	102.2	89.5	78.3	69.5	59.1	51.5	45.3	43.0	42.6
142.5°	104.8	99.9	91.0	80.3	70.7	63.8	54.5	48.0	43.0	40.7	40.3
145°	92.6	88.3	80.7	71.8	64.1	57.6	50.3	44.9	40.7	38.8	38.4
147.5°	79.5	76.8	71.1	64.1	57.6	51.8	46.9	41.9	39.2	36.9	36.5
150°	69.9	68.0	63.4	57.6	52.6	48.0	44.2	39.6	37.3	35.7	35.3
152.5°	62.2	60.3	56.5	52.2	48.0	44.6	41.1	38.0	35.7	34.6	34.2
155°	55.7	54.2	51.1	47.6	44.2	41.1	38.4	36.1	34.6	33.4	33.4
157.5°	50.7	49.2	46.9	43.8	41.1	38.4	36.5	34.6	33.8	32.6	32.6
160°	46.5	45.3	43.4	40.7	38.4	36.5	34.9	33.4	33.0	32.3	32.3
162.5°	43.0	42.2	40.3	38.4	36.9	35.3	34.2	33.0	32.3	31.9	31.9
165°	40.7	39.9	38.8	37.3	35.7	34.6	33.8	32.6	32.3	32.3	31.9
167.5°	39.6	38.8	37.6	36.1	34.9	34.6	33.8	33.0	32.6	32.6	32.3
170°	38.4	38.0	37.3	36.1	34.9	34.6	34.2	33.4	33.4	33.0	33.0
172.5°	38.0	37.6	36.9	36.1	35.3	34.9	34.6	34.2	34.2	34.2	33.8
175°	37.6	37.6	36.9	36.1	35.7	35.7	35.3	34.9	34.9	34.9	34.9
177.5°	37.6	37.3	37.3	36.9	36.5	36.5	36.5	36.1	36.1	36.1	36.1
180°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

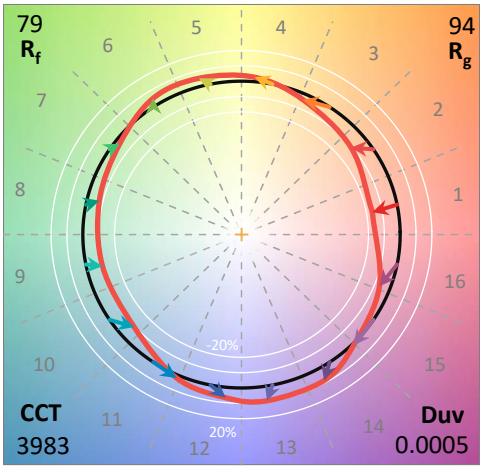
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
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-20-740-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

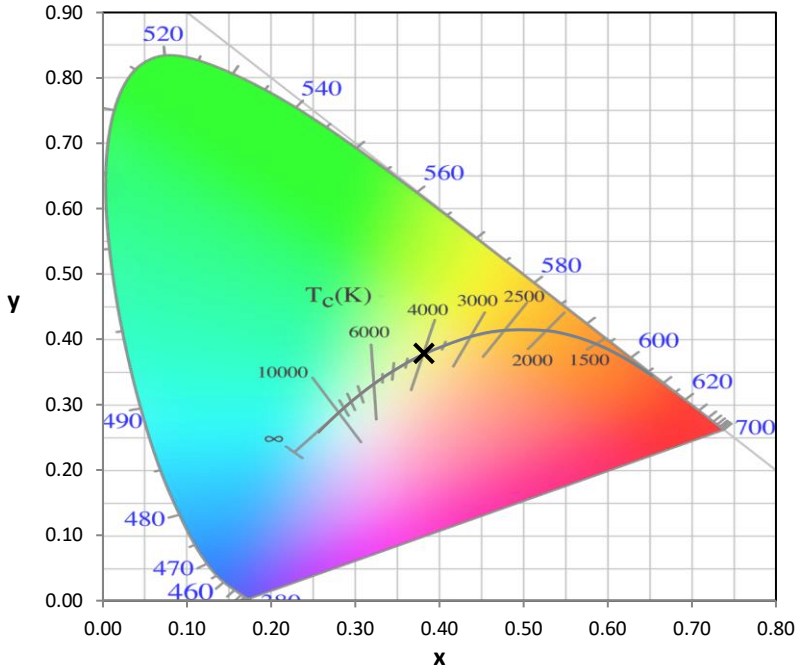
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

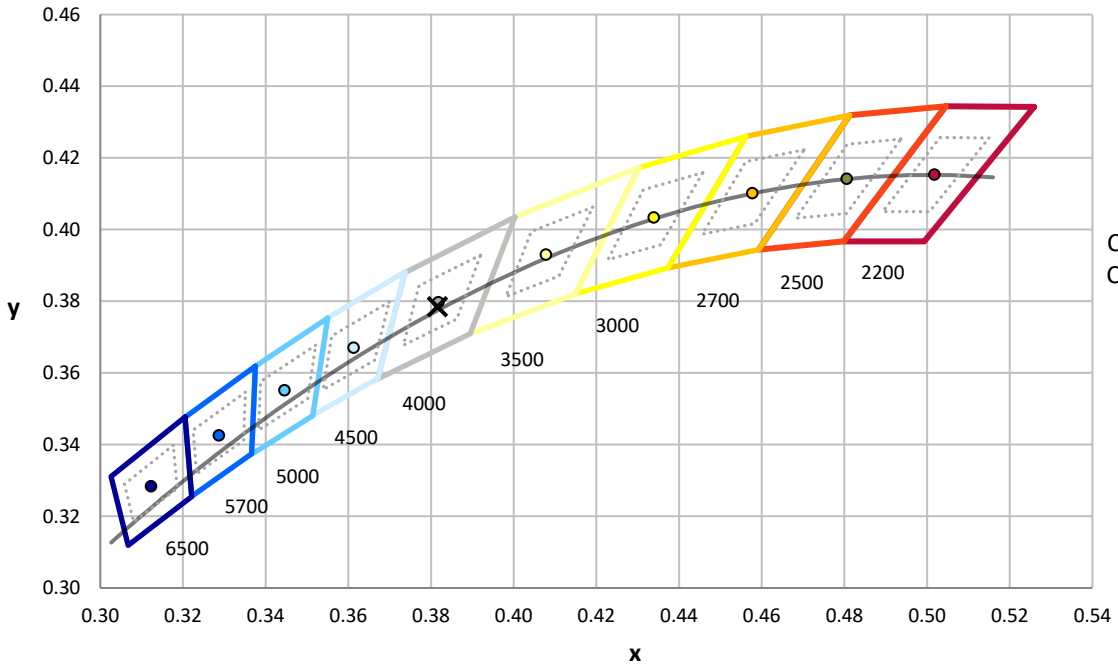
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

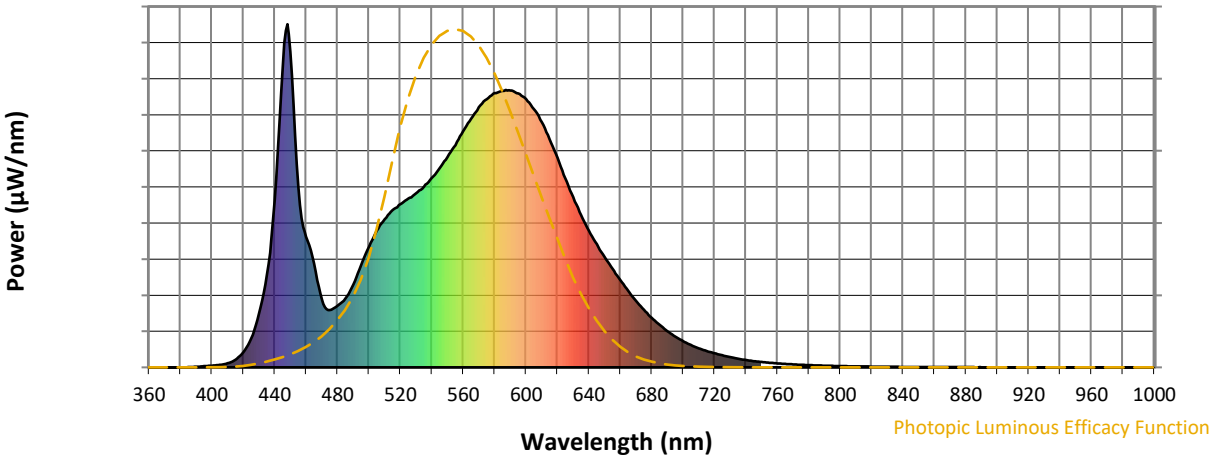


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

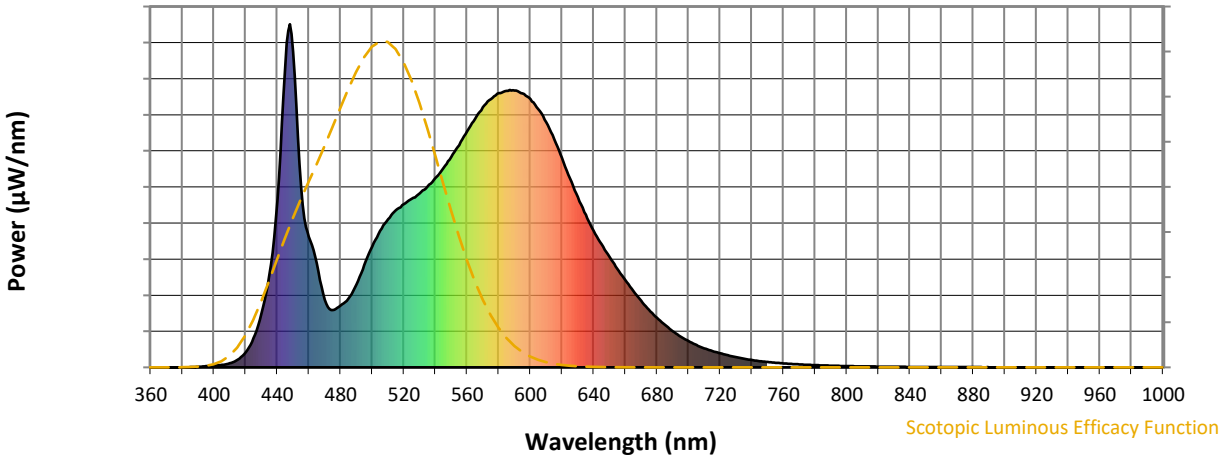


Photopic Lumens: NR

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

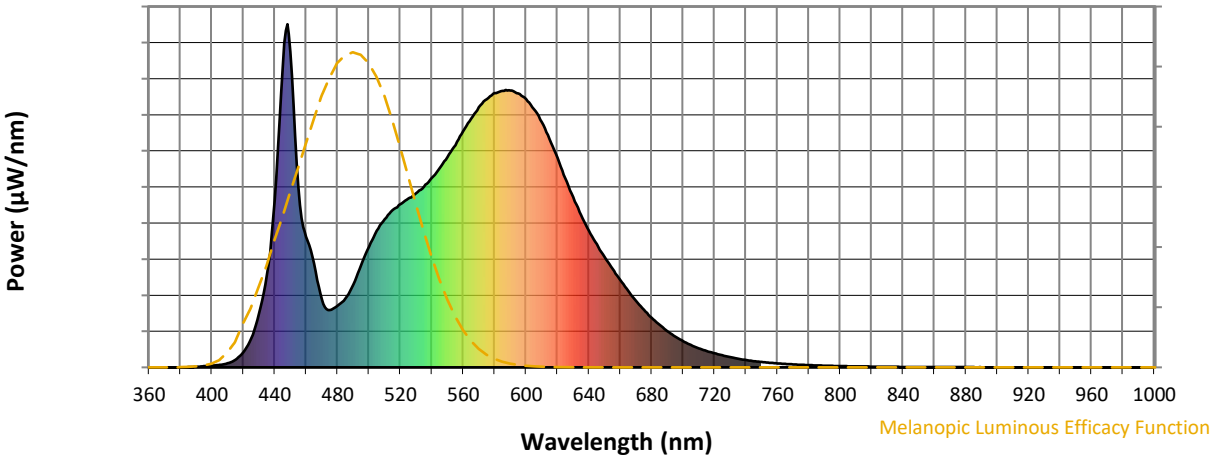


Scotopic Lumens: NR **S/P: 1.61**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

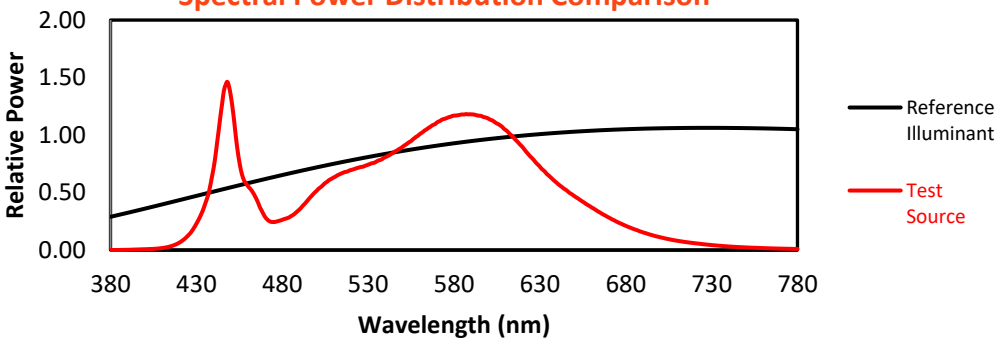
REPORT NUMBER: SP1-2501-332-11

TM-30-18

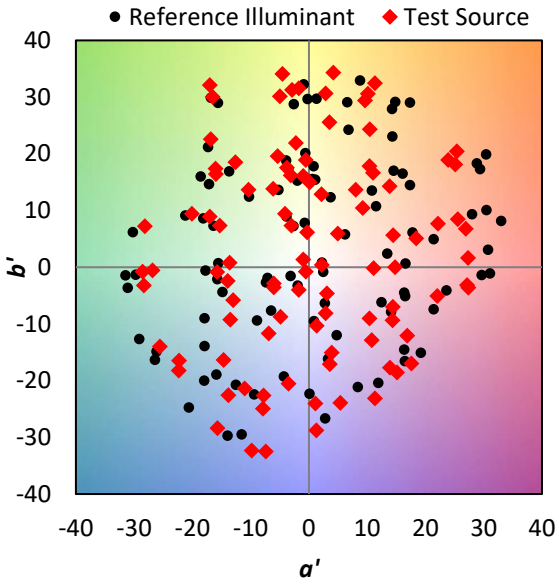
Summary

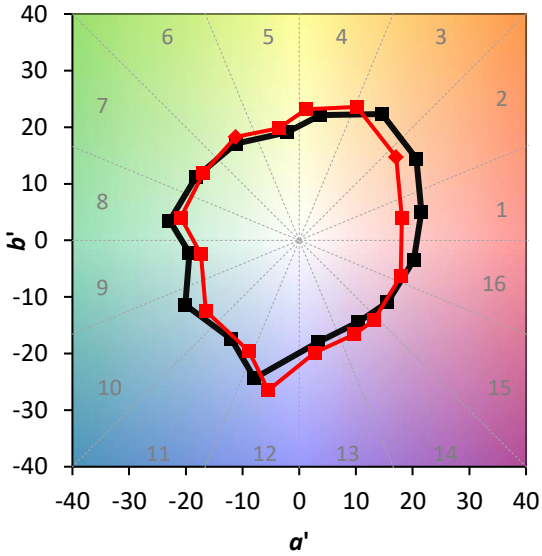
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

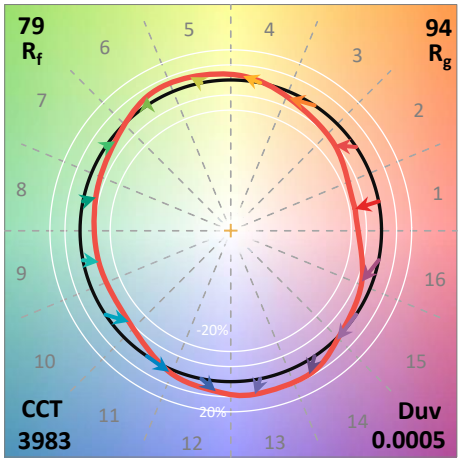
Spectral Power Distribution Comparison

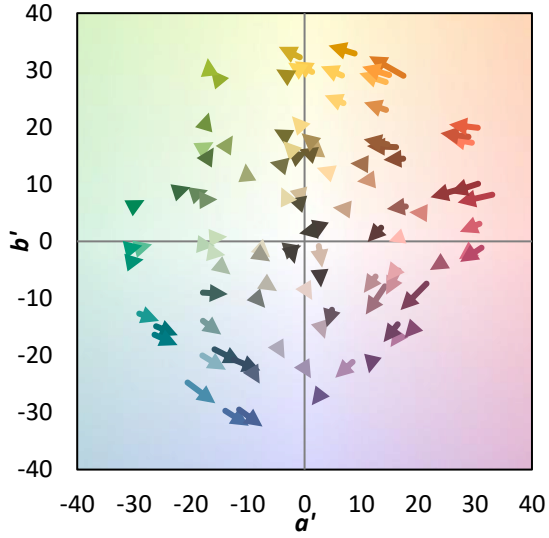


Color Vector Graphics







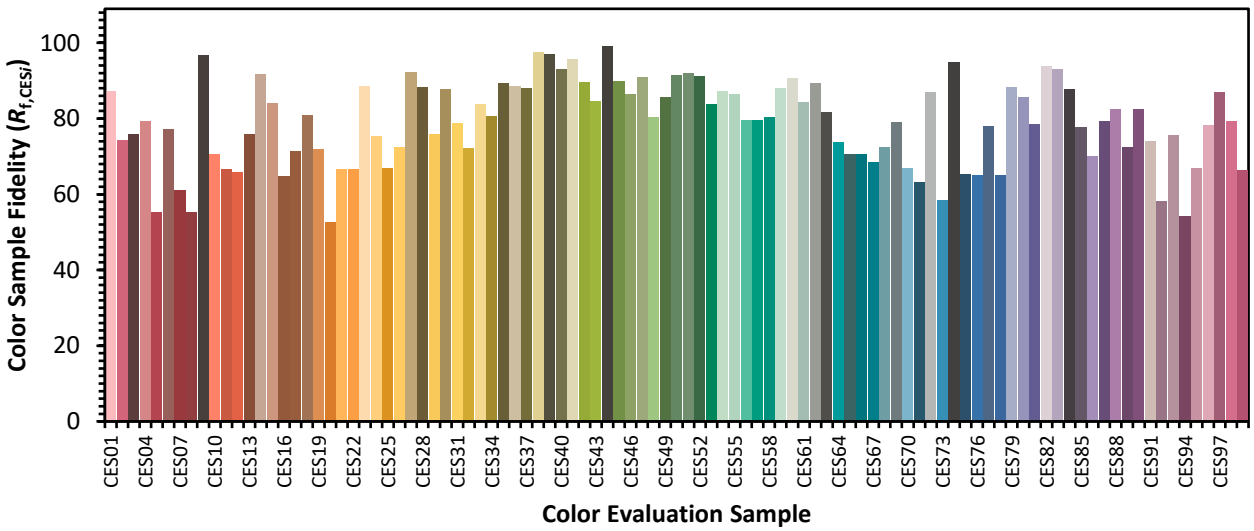


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

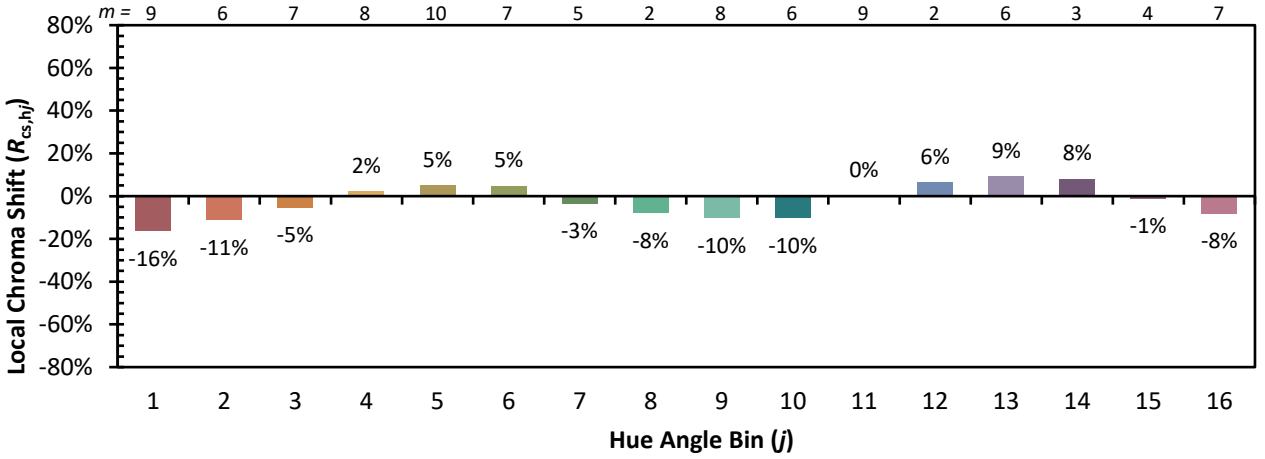
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

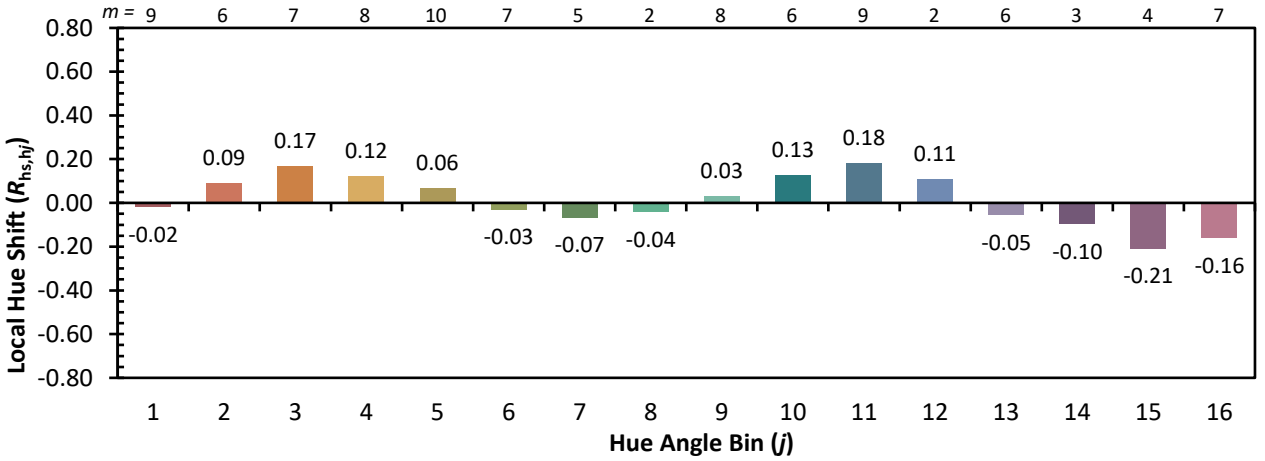


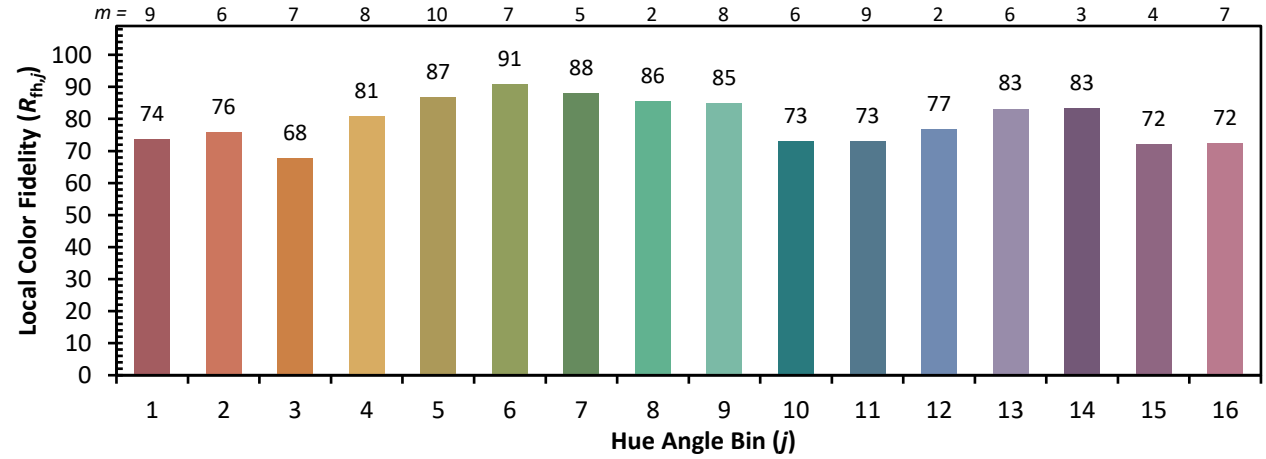
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Color Rendition by Hue-Angle Bin



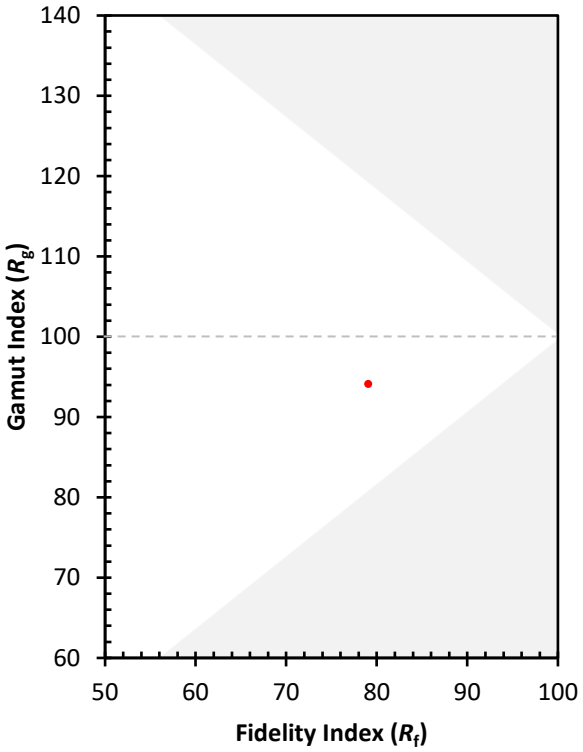


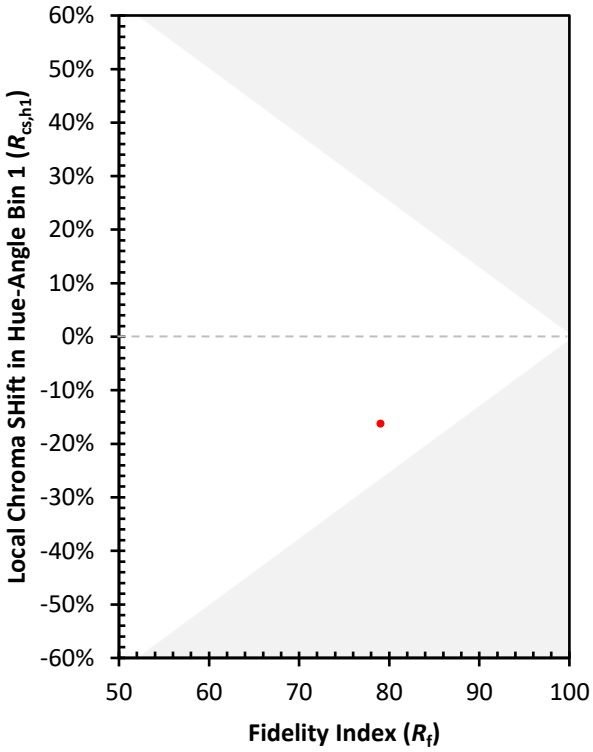


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Measure Comparisons





(END OF REPORT)