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: P1045883

Luminaire Tested: **FFX-CLB-30-727-U-VM9-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:	P1045883
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-727-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 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:	3141.9 lumens
Efficiency:	N/A
Efficacy:	102.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - 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

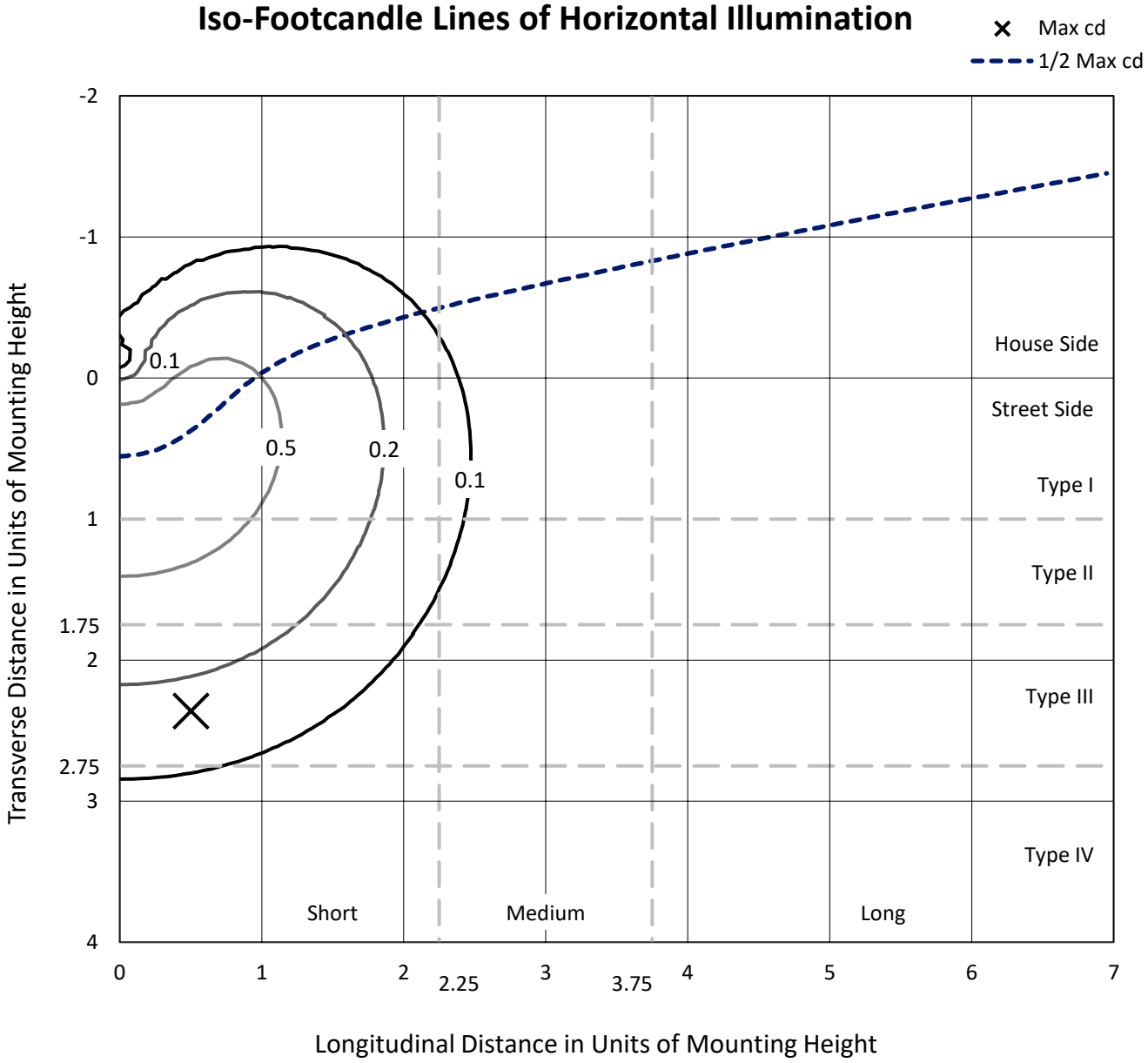


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Iso-Footcandle Lines of Horizontal Illumination



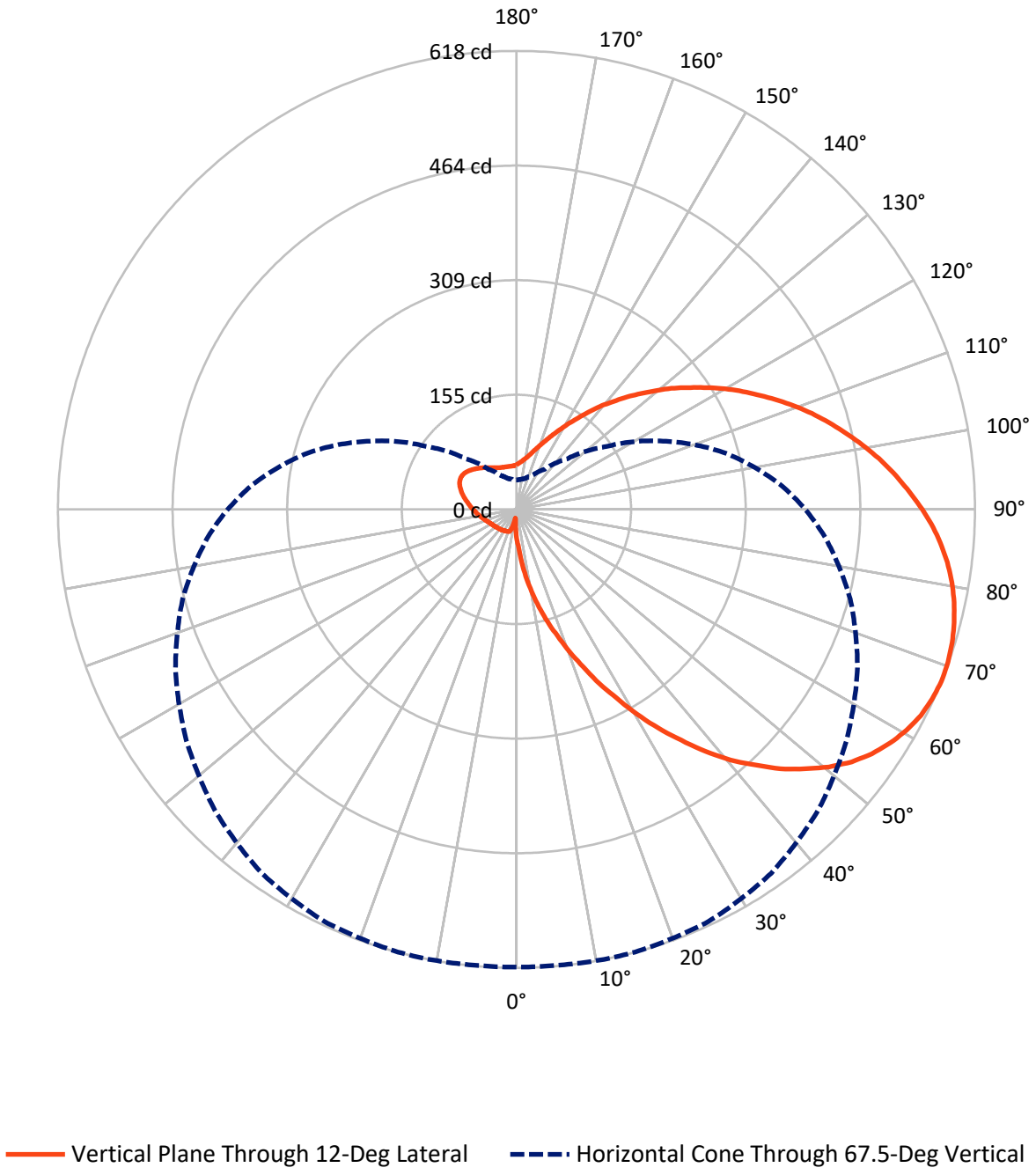
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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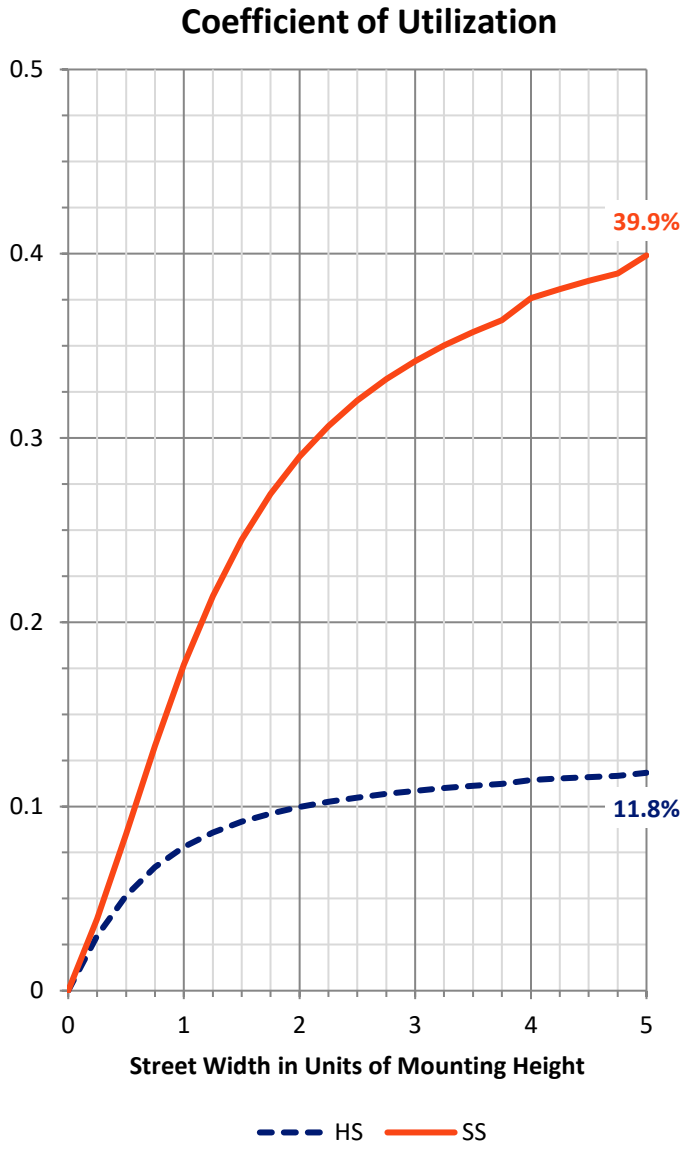
REPORT NUMBER: P1045883
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	404.3	391.3	795.7
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	1429.5	916.7	2346.2
	% Fixture	45.5	29.2	74.7
Total	Lumens	1833.9	1308.0	3141.9
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.2
10°-20°	28.0	0.9
20°-30°	72.9	2.3
30°-40°	141.5	4.5
40°-50°	222.2	7.1
50°-60°	294.9	9.4
60°-70°	343.7	10.9
70°-80°	365.2	11.6
80°-90°	360.6	11.5
90°-100°	332.4	10.6
100°-110°	290.1	9.2
110°-120°	238.5	7.6
120°-130°	180.6	5.7
130°-140°	123.3	3.9
140°-150°	75.6	2.4
150°-160°	41.5	1.3
160°-170°	20.0	0.6
170°-180°	5.9	0.2
0°-90°	1833.9	58.4
0°-180°	3141.9	100.0



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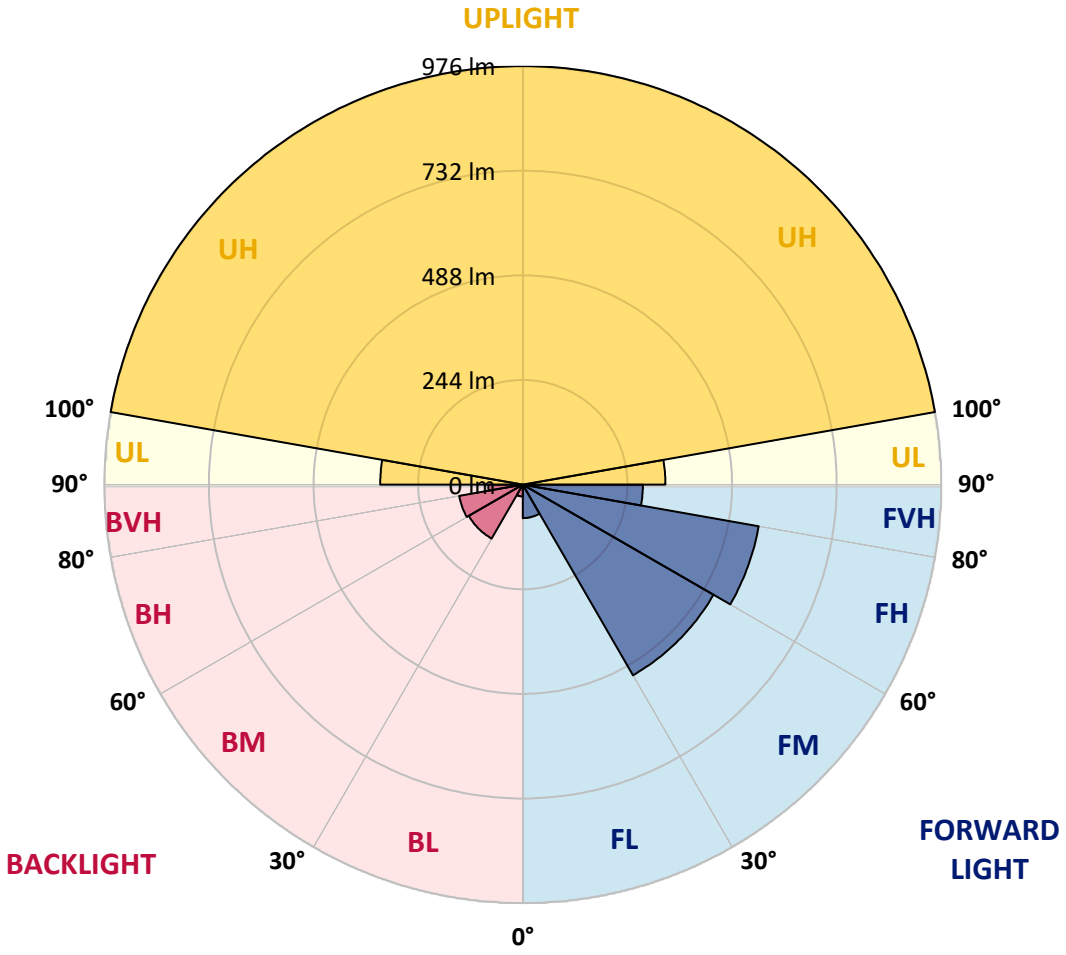
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	78.1	2.5			
FM	(30°-60°)	513.3	16.3			
FH	(60°-80°)	558.3	17.8			G0/660
FVH	(80°-90°)	279.8	8.9			G3/500
BL	(0°-30°)	27.7	0.9	B0/110		
BM	(30°-60°)	145.4	4.6	B0/220		
BH	(60°-80°)	150.6	4.8	B1/500		G1/500
BVH	(80°-90°)	80.7	2.6			G1/100
UL	(90°-100°)	332.4	10.6		U3/500	
UH	(100°-180°)	975.6	31.1		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	39.7	39.7	*39.7*	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
2.5°	49.8	50.8	*49.8*	51.2	50.5	50.5	48.7	47.0	44.6	41.8	39.4
5°	70.5	70.2	*68.8*	70.2	68.8	67.1	64.3	59.8	55.3	51.2	46.0
7.5°	91.9	92.3	*91.2*	90.9	87.8	85.4	80.9	76.4	70.9	64.6	58.4
10°	115.1	114.4	*112.7*	113.0	109.6	104.7	99.5	94.4	88.1	80.9	72.9
12.5°	136.5	136.5	*135.1*	135.5	131.7	126.2	122.0	115.1	107.5	98.9	89.2
15°	159.3	158.0	*157.3*	157.3	153.5	148.6	144.1	136.5	127.5	117.9	106.8
17.5°	180.4	180.1	*179.4*	179.7	176.3	172.1	164.9	157.3	146.6	134.8	123.4
20°	207.4	206.0	*205.0*	203.2	201.2	195.6	188.7	178.7	168.0	155.2	140.0
22.5°	231.9	233.7	*230.9*	229.5	226.7	222.2	212.2	202.5	189.8	174.9	158.3
25°	260.3	261.6	*260.6*	258.9	255.1	248.9	239.5	228.8	213.6	196.7	177.0
27.5°	290.0	291.0	*288.3*	289.0	282.4	276.5	267.2	254.0	239.5	219.5	198.7
30°	319.4	321.4	*320.4*	318.0	312.5	307.3	296.2	282.4	265.8	243.7	219.8
32.5°	353.9	351.5	*351.9*	349.1	345.6	337.3	327.7	312.1	292.8	269.3	241.9
35°	386.1	385.0	*382.3*	383.7	377.8	370.2	358.1	341.5	320.4	294.5	264.4
37.5°	414.8	415.8	*414.1*	413.0	409.2	400.6	386.4	369.5	345.3	318.0	285.2
40°	444.1	444.8	*444.5*	444.5	439.3	429.6	415.1	396.1	371.2	341.8	306.2
42.5°	472.1	472.8	*471.1*	471.4	467.3	457.3	441.7	421.7	394.0	363.3	324.6
45°	499.1	499.1	*499.1*	498.8	492.9	483.5	467.6	444.8	417.2	382.3	341.5
47.5°	524.0	523.3	*522.9*	522.9	519.1	508.1	491.1	466.3	436.2	399.6	358.1
50°	546.1	546.5	*546.1*	545.4	539.5	530.6	511.5	485.6	453.8	416.1	371.9
52.5°	565.1	565.5	*565.8*	564.1	560.3	549.6	528.5	500.8	468.7	429.3	383.3
55°	580.3	581.0	*581.7*	581.0	577.2	564.4	543.3	515.3	480.8	440.3	393.3
57.5°	594.5	594.1	*594.5*	593.8	589.7	577.2	555.4	525.4	490.5	449.3	400.9
60°	604.2	604.5	*604.5*	604.5	599.7	586.9	563.7	533.0	497.4	456.2	407.5
62.5°	610.7	611.1	*612.1*	611.4	606.9	593.5	569.6	538.5	502.6	460.7	412.0
65°	615.2	615.6	*616.3*	615.6	611.4	597.6	573.4	542.0	506.0	464.2	415.1
67.5°	*617.3*	*617.3*	*618.3*	*618.0*	*613.2*	*599.0*	*574.8*	*543.3*	*507.4*	*465.9*	*417.2*
70°	616.3	616.6	*617.3*	617.0	612.1	598.0	573.8	542.6	507.0	465.9	417.5
72.5°	613.9	613.9	*614.5*	613.9	609.4	595.2	571.3	540.6	505.3	465.2	417.2
75°	609.0	609.4	*609.7*	609.4	604.5	590.7	567.2	536.8	502.6	462.8	415.8
77.5°	603.1	603.5	*603.5*	603.5	598.3	584.5	561.7	531.9	498.8	460.0	413.4
80°	594.5	594.8	*595.5*	594.8	589.7	577.2	554.4	526.1	493.9	455.5	410.3
82.5°	584.8	584.5	*585.5*	585.2	580.0	567.5	545.1	518.1	486.7	450.4	405.8
85°	572.7	572.7	*573.4*	572.7	568.2	555.1	534.0	508.4	478.4	442.8	400.2
87.5°	559.2	559.2	*559.9*	558.5	553.4	542.0	521.9	497.0	469.4	435.2	394.0
90°	543.3	544.0	*544.0*	543.0	537.8	526.8	508.4	484.6	457.6	425.8	386.8
92.5°	528.1	528.1	*527.4*	527.4	521.9	510.9	493.9	472.1	446.9	416.5	378.8
95°	511.9	511.9	*510.9*	510.2	504.6	495.3	479.1	459.0	434.8	406.8	370.9
97.5°	494.6	494.3	*493.6*	492.9	487.3	478.4	463.8	444.5	422.4	395.8	362.2
100°	477.0	477.3	*474.9*	474.6	469.0	461.4	447.6	429.6	409.2	384.3	352.9
102.5°	457.6	458.3	*456.2*	455.9	450.4	442.1	431.0	414.8	396.4	373.6	343.6
105°	440.3	438.6	*437.6*	436.9	432.0	424.4	412.7	399.9	382.6	361.2	333.2
107.5°	420.6	421.0	*418.9*	417.5	412.7	406.5	396.1	384.3	369.1	348.7	323.2
110°	400.9	400.2	*399.2*	398.5	393.0	387.5	378.5	368.8	353.9	336.3	312.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	380.5	380.9	*379.2*	378.1	374.3	368.4	361.9	352.5	339.8	323.2	300.7
115°	361.5	360.8	*359.5*	358.8	354.6	350.1	343.6	336.7	325.2	309.3	289.0
117.5°	342.2	340.8	*340.5*	339.4	336.3	331.8	326.6	320.8	309.7	295.9	276.5
120°	322.1	322.1	*321.4*	320.8	316.6	312.8	309.7	303.5	294.1	281.0	264.4
122.5°	303.5	303.1	*301.7*	300.7	298.6	295.2	291.4	286.5	278.2	266.5	250.6
125°	283.1	283.8	*282.7*	282.4	278.9	277.2	273.7	270.6	262.0	251.3	237.1
127.5°	266.1	265.1	*265.1*	263.4	261.6	259.9	257.2	253.0	247.1	236.1	222.9
130°	248.2	247.5	*246.4*	246.4	244.4	241.9	240.2	236.8	230.2	221.2	208.8
132.5°	230.2	229.5	*228.8*	227.8	226.4	226.0	224.3	220.5	214.3	206.3	195.6
135°	213.3	212.9	*212.6*	212.6	210.5	209.5	207.4	204.3	200.1	192.9	182.5
137.5°	197.4	196.3	*195.6*	195.6	194.9	193.2	191.5	189.1	184.6	178.7	169.4
140°	180.8	181.5	*181.5*	181.1	179.7	178.7	176.6	174.5	170.1	165.2	157.3
142.5°	166.9	166.6	*165.9*	165.6	164.9	163.5	162.4	160.0	157.3	152.1	145.2
145°	152.1	152.1	*151.7*	152.1	150.7	150.4	149.0	146.9	143.8	139.3	133.4
147.5°	138.9	138.9	*138.6*	138.9	137.9	136.9	135.8	134.5	131.7	128.2	123.0
150°	126.8	127.2	*126.5*	126.5	126.2	125.1	124.4	122.4	120.3	117.5	113.0
152.5°	115.8	116.1	*115.8*	115.4	115.1	114.4	113.4	112.0	109.9	107.5	103.7
155°	106.5	106.1	*106.1*	106.1	105.8	104.7	104.7	102.7	100.6	98.9	95.1
157.5°	97.5	97.5	*97.5*	97.5	96.8	96.4	95.7	94.0	93.0	90.6	87.8
160°	90.2	89.9	*89.9*	89.9	89.2	88.8	87.8	87.1	85.7	83.6	81.6
162.5°	83.0	83.3	*83.3*	83.3	82.6	82.3	81.6	80.9	79.8	77.8	76.4
165°	77.4	77.4	*77.4*	77.1	76.7	76.7	75.7	75.3	74.3	72.9	71.9
167.5°	72.9	72.9	*72.6*	72.9	72.2	71.5	71.2	70.5	69.8	69.1	68.1
170°	69.1	69.1	*69.1*	69.1	68.8	68.4	67.7	67.4	66.7	66.0	65.0
172.5°	66.0	66.0	*66.0*	66.0	65.7	65.3	64.6	64.3	63.9	63.3	62.6
175°	63.6	63.6	*63.6*	63.6	63.3	62.9	62.2	62.2	61.9	61.5	60.8
177.5°	61.9	61.9	*61.5*	61.5	61.2	60.8	60.8	60.5	60.5	60.1	59.8
180°	59.8	59.8	*59.8*	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
2.5°	38.0	36.6	34.2	32.1	29.7	28.0	26.3	25.9	25.9	26.6	26.6
5°	43.9	40.8	35.9	31.5	26.3	22.5	19.0	15.9	13.8	12.8	12.8
7.5°	55.0	52.5	45.3	39.1	32.8	27.0	21.4	16.6	13.1	10.7	10.4
10°	69.1	65.3	56.7	48.7	40.4	33.2	26.6	20.7	16.6	14.5	14.5
12.5°	84.3	79.2	68.8	59.1	49.4	40.1	32.5	26.6	22.5	20.4	19.7
15°	100.6	94.7	82.3	69.8	58.1	48.0	39.4	32.1	28.0	25.9	25.6
17.5°	115.8	109.2	95.1	80.2	66.7	54.6	44.2	36.6	31.5	29.0	28.7
20°	132.4	123.7	107.1	89.9	74.0	59.4	47.7	38.7	32.5	29.7	29.4
22.5°	149.3	139.3	119.6	99.5	80.5	63.9	50.1	39.7	32.8	29.7	29.4
25°	167.3	156.2	133.1	109.9	87.8	68.4	52.5	40.8	33.5	29.7	29.4
27.5°	186.3	173.9	147.2	121.0	95.1	72.9	55.0	42.2	33.9	30.1	29.4
30°	206.7	192.5	161.8	131.7	102.0	77.1	57.0	42.9	34.2	30.1	29.7
32.5°	227.1	209.8	177.7	142.1	109.2	80.9	59.1	43.9	34.6	30.4	30.1
35°	246.8	229.8	192.2	152.8	116.1	84.7	60.8	44.6	35.3	30.8	30.1
37.5°	266.8	248.5	206.0	162.8	122.4	87.8	62.2	45.3	35.6	31.1	30.4
40°	285.8	264.4	219.5	172.5	127.5	90.6	63.3	45.6	35.9	31.5	30.8
42.5°	303.8	281.0	232.3	180.8	132.7	92.6	64.3	46.3	36.3	31.8	31.5
45°	319.0	295.5	243.3	189.1	136.5	94.4	65.0	46.7	36.6	32.1	31.8
47.5°	333.9	308.7	253.7	195.6	140.3	96.1	65.3	47.0	37.0	32.8	32.5
50°	347.0	320.4	263.0	201.5	143.1	96.8	65.7	47.4	37.7	33.5	33.2
52.5°	358.1	330.4	270.3	206.3	145.2	97.5	65.7	47.4	38.0	34.2	33.9
55°	367.1	339.1	276.9	209.8	146.6	97.8	65.7	47.7	38.7	34.9	34.6
57.5°	374.7	345.6	282.0	212.9	147.9	97.8	65.7	48.0	39.4	35.6	35.3
60°	380.2	351.2	285.8	215.0	148.3	97.5	65.7	48.4	40.1	36.6	36.3
62.5°	384.7	355.0	289.0	216.4	148.3	96.8	65.7	48.7	40.8	37.7	37.3
65°	387.8	357.7	291.0	217.1	147.9	96.4	65.7	49.4	41.8	38.7	38.4
67.5°	*389.5*	*359.8*	*292.4*	*217.8*	*147.6*	*96.4*	*66.0*	*50.5*	*42.9*	*40.1*	*39.7*
70°	390.2	360.2	292.8	217.4	147.2	95.7	66.4	51.2	44.2	41.5	41.1
72.5°	390.2	360.5	292.8	217.4	146.6	96.1	66.7	52.2	45.6	42.9	42.5
75°	389.2	359.5	292.4	216.7	146.2	95.7	67.7	53.6	47.0	44.6	44.2
77.5°	387.1	358.1	291.4	215.7	145.9	96.1	68.4	55.0	48.7	46.3	46.3
80°	384.7	356.0	290.0	214.6	145.5	96.8	69.5	56.7	50.5	48.4	48.0
82.5°	380.9	352.9	287.6	213.3	144.8	97.1	70.9	58.4	52.5	50.1	50.1
85°	375.7	348.4	284.5	211.5	144.1	97.8	72.2	59.8	54.6	52.2	52.2
87.5°	370.2	343.6	280.7	209.5	143.8	98.5	74.0	61.9	56.3	54.3	53.9
90°	363.6	337.7	276.9	207.0	143.4	99.5	75.3	63.9	58.8	56.7	56.3
92.5°	356.7	331.8	272.7	205.3	143.1	100.6	77.4	66.4	61.2	59.1	58.8
95°	349.8	325.6	268.6	202.9	143.1	102.0	79.5	68.8	63.6	61.5	61.2
97.5°	341.8	318.7	263.7	200.8	143.1	103.7	81.9	71.2	66.0	63.9	63.9
100°	333.5	311.8	258.9	198.7	143.4	105.4	84.3	74.0	68.8	66.7	66.7
102.5°	325.2	304.2	254.4	197.0	144.1	107.8	87.4	77.1	71.9	69.8	69.5
105°	316.3	296.6	249.2	194.6	144.8	109.9	90.2	79.8	74.7	72.6	72.6
107.5°	307.3	288.6	244.0	192.9	145.5	112.0	93.3	83.0	77.8	75.3	75.3
110°	297.2	280.0	238.5	190.8	146.2	114.4	95.7	85.7	80.2	78.1	77.8

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

Scaled Data Report

REPORT NUMBER: P1045883
CATALOG NUMBER: FFX-CLB-30-727-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	286.9	271.3	232.6	188.0	146.6	116.5	98.5	88.5	83.0	80.5	80.2
115°	275.8	261.6	226.0	185.3	146.6	118.2	100.6	90.6	85.0	82.6	82.3
117.5°	264.8	251.3	218.8	181.5	146.2	119.2	102.3	91.9	86.4	84.0	83.6
120°	253.0	240.9	211.5	177.7	144.8	119.6	103.0	93.0	87.1	84.7	84.3
122.5°	240.9	229.8	202.9	172.5	142.7	119.2	103.0	93.0	87.1	84.3	84.0
125°	227.8	218.1	193.9	166.3	139.6	117.9	102.3	92.3	86.4	83.6	83.0
127.5°	215.0	206.3	184.6	160.0	135.8	115.8	100.9	90.9	85.0	82.3	81.9
130°	202.5	193.9	174.9	153.1	131.3	113.0	98.5	88.8	83.3	80.2	79.8
132.5°	189.4	181.5	165.2	145.9	126.2	109.6	96.1	86.8	80.9	78.5	77.8
135°	176.3	170.1	155.2	138.3	121.0	105.8	93.3	84.3	78.8	76.0	76.0
137.5°	164.5	158.3	145.2	130.7	115.4	101.3	89.9	81.6	76.4	74.0	73.6
140°	152.4	147.6	135.8	123.0	109.6	97.1	87.1	79.2	74.3	71.9	71.5
142.5°	141.0	136.2	126.8	115.1	103.7	92.6	83.6	76.4	71.9	69.8	69.5
145°	129.6	126.2	117.2	107.8	97.8	88.1	79.8	73.6	69.8	67.7	67.7
147.5°	119.6	116.5	108.5	100.6	91.9	84.0	76.7	71.2	67.7	66.0	65.7
150°	109.9	107.1	100.6	94.0	86.1	79.5	73.3	68.8	65.7	64.3	63.9
152.5°	100.9	98.9	93.3	87.8	81.2	75.3	70.5	66.7	63.9	62.6	62.6
155°	93.3	91.6	86.8	81.9	76.7	71.9	67.7	64.6	62.6	61.5	61.2
157.5°	86.8	84.7	80.9	77.1	72.9	68.8	65.7	62.9	61.5	60.5	60.5
160°	80.5	78.8	75.7	72.9	69.5	66.4	63.6	61.9	60.5	59.8	59.8
162.5°	75.3	74.0	71.5	69.1	66.7	64.3	62.2	60.8	59.8	59.1	59.1
165°	70.9	70.2	68.1	66.4	64.3	62.6	61.2	60.1	59.4	59.1	59.1
167.5°	67.4	66.7	65.3	63.9	62.6	61.2	60.1	59.4	59.1	58.8	58.8
170°	64.6	63.9	63.3	62.2	61.2	60.1	59.4	59.1	58.8	58.8	58.8
172.5°	62.6	61.9	61.5	60.8	60.1	59.4	59.1	58.8	58.8	58.8	58.8
175°	60.8	60.5	60.1	59.8	59.4	59.1	58.8	58.8	58.8	58.8	58.8
177.5°	59.8	59.4	59.4	59.1	59.1	58.8	58.8	59.1	59.1	59.1	59.4
180°	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8

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

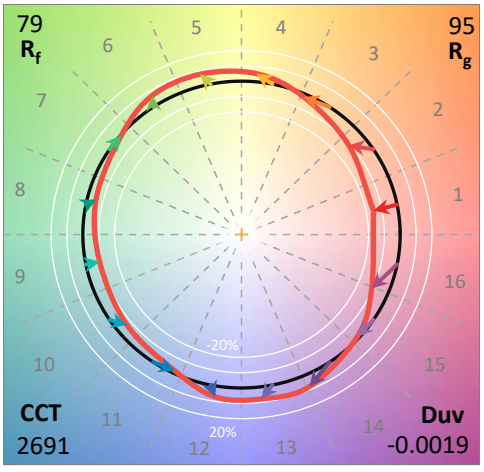
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

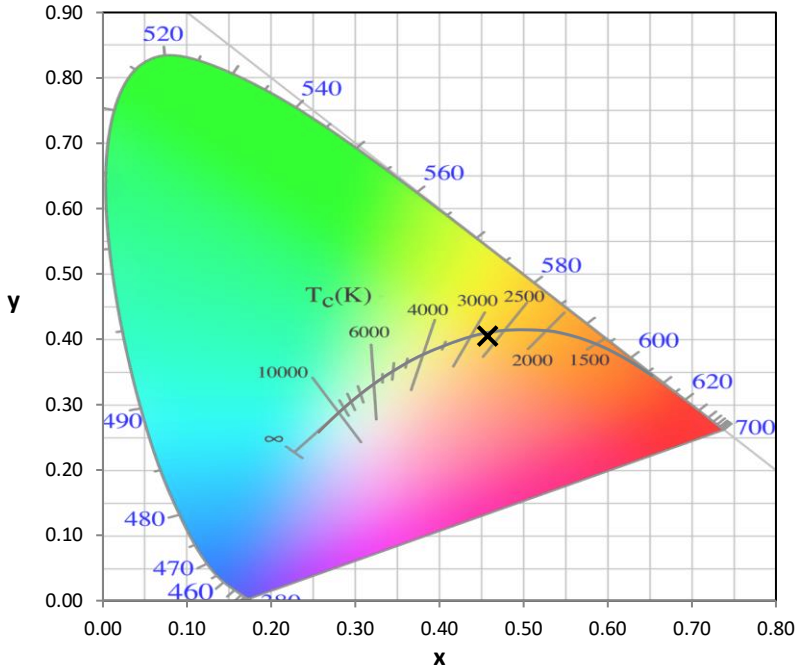
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

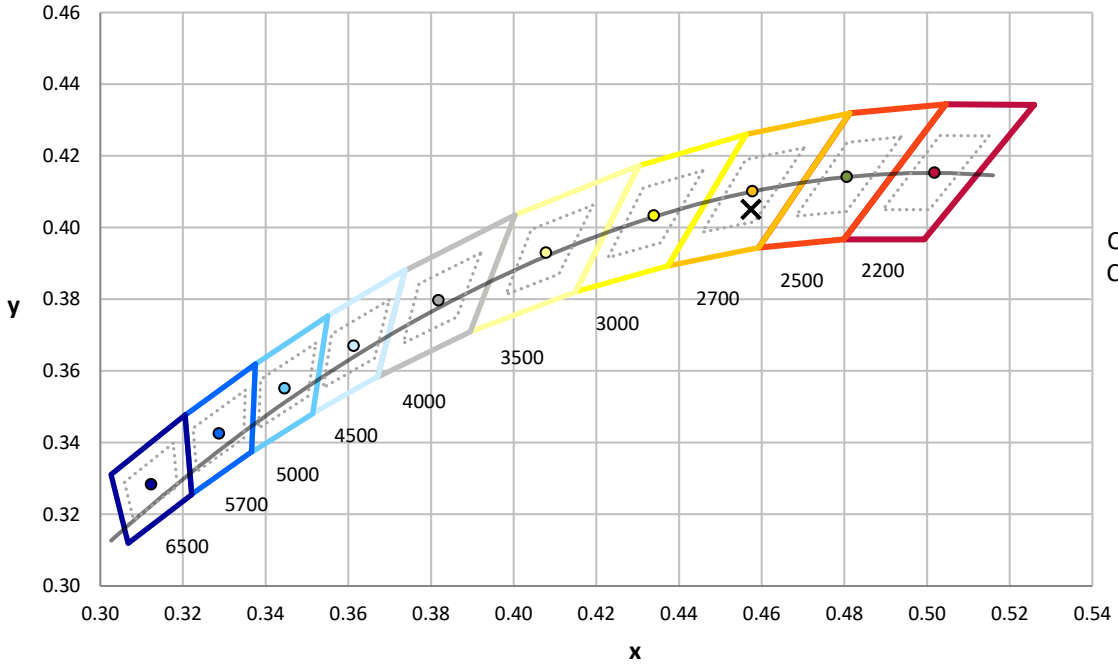
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

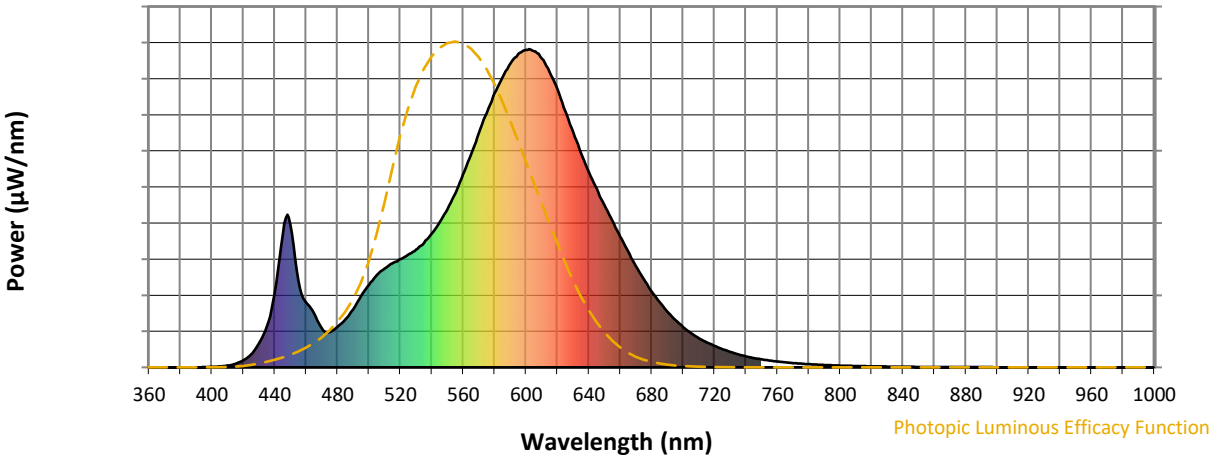


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

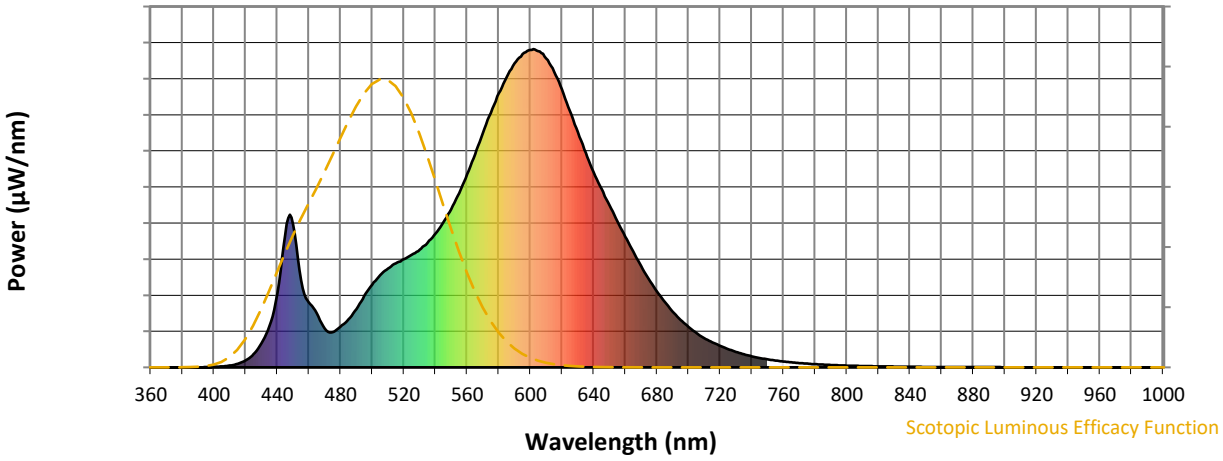


Photopic Lumens: NR

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

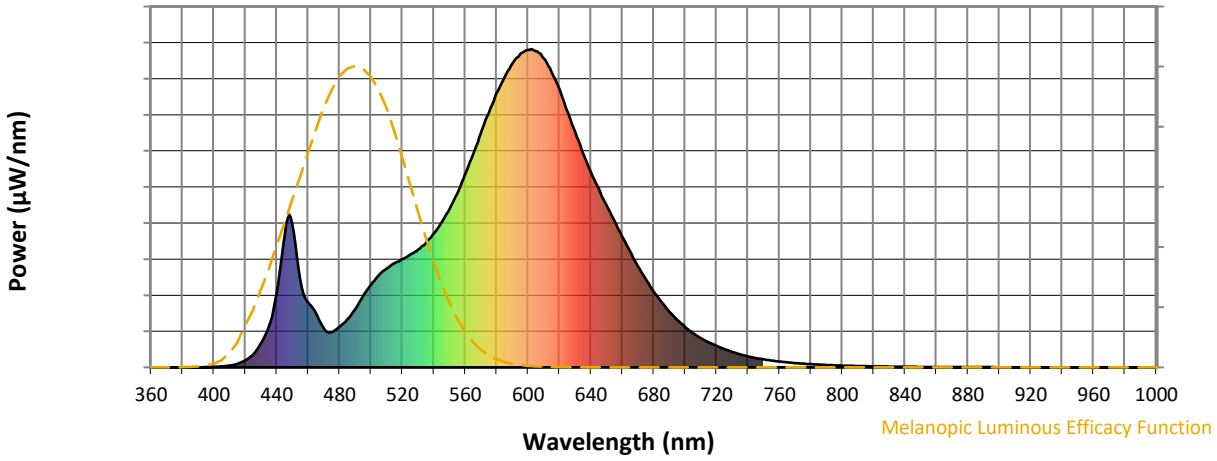


Scotopic Lumens: NR **S/P: 1.18**

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			

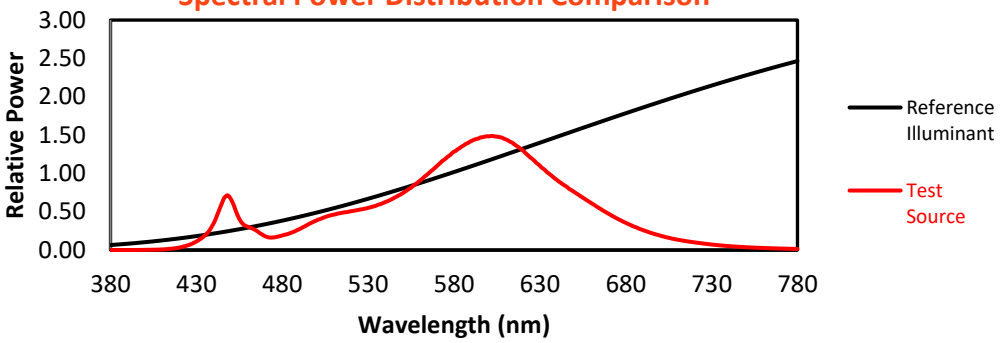
REPORT NUMBER: SP1-2501-332-8

TM-30-18

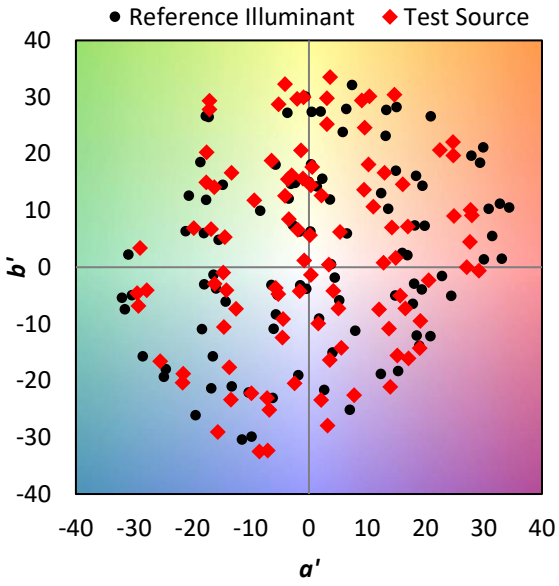
Summary

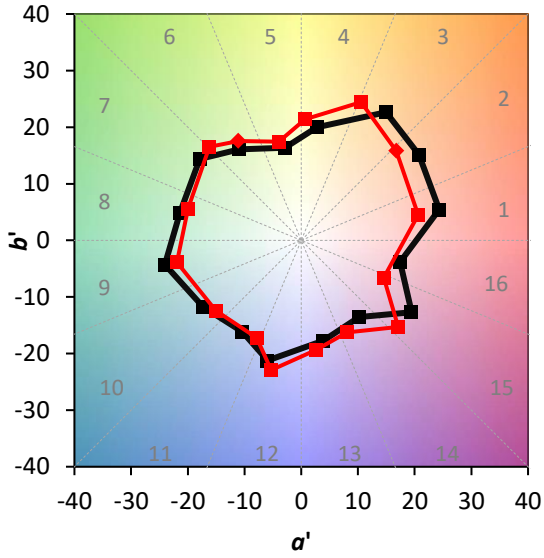
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

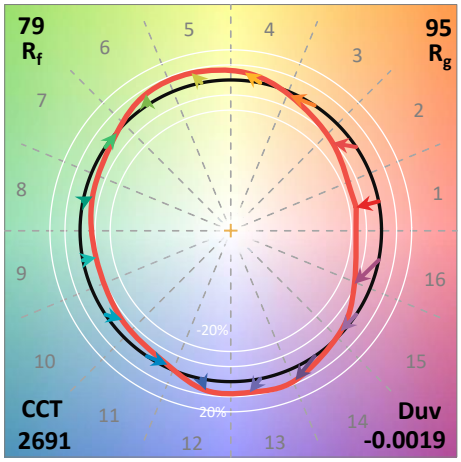
Spectral Power Distribution Comparison

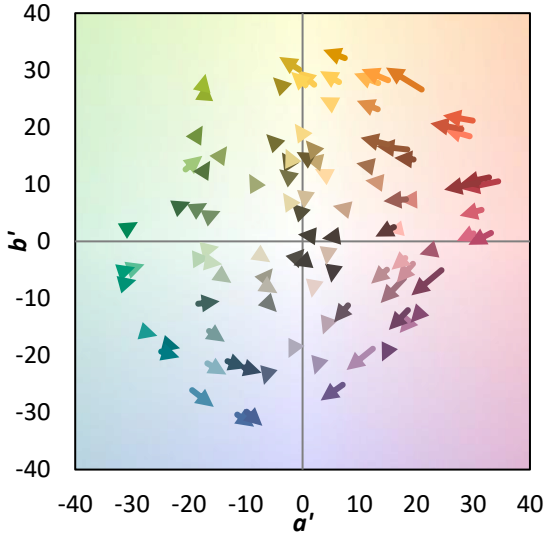


Color Vector Graphics







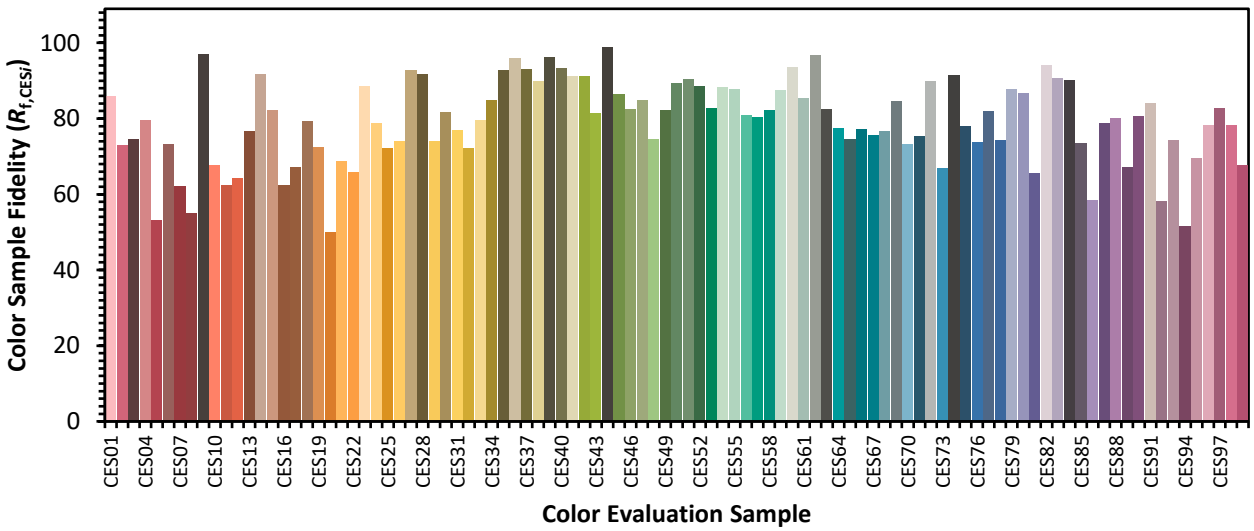


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

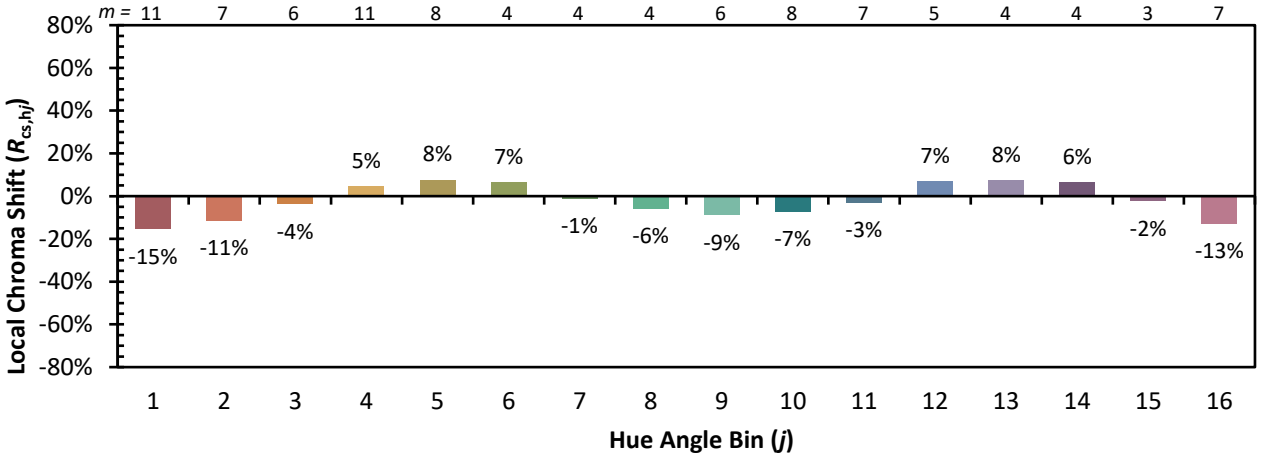
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

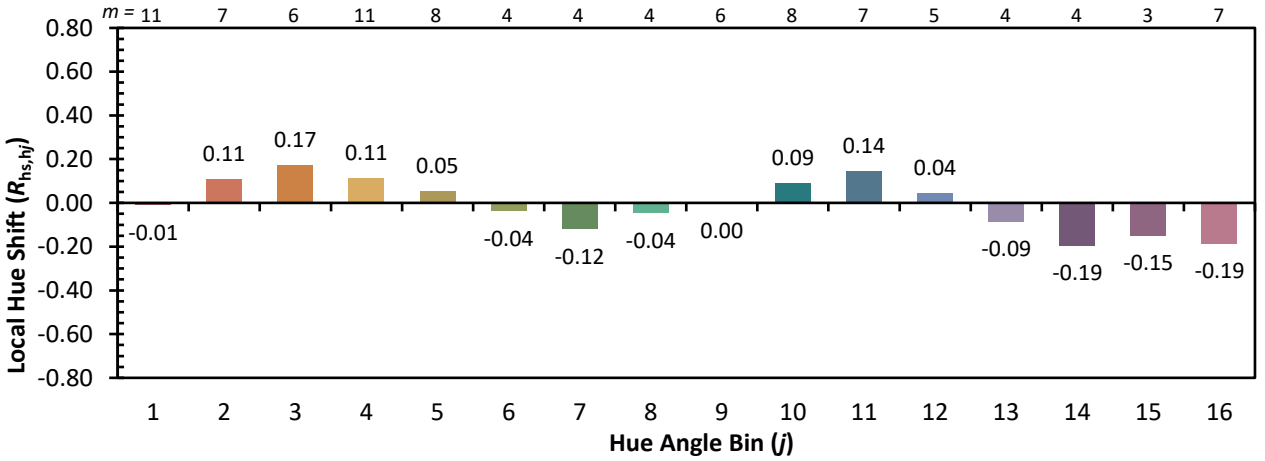


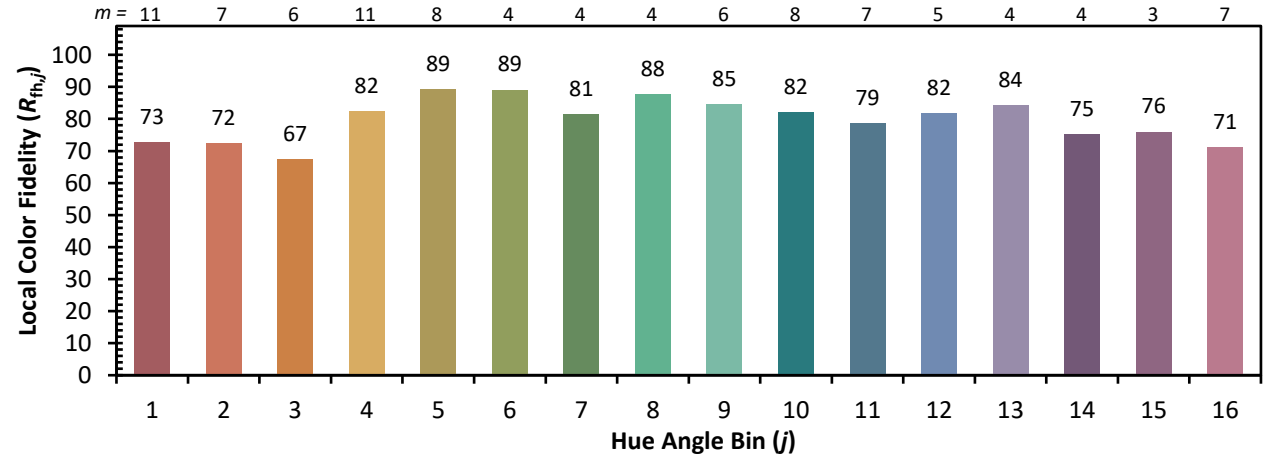
REPORT NUMBER: SP1-2501-332-8

TM-30-18

Color Rendition by Hue-Angle Bin



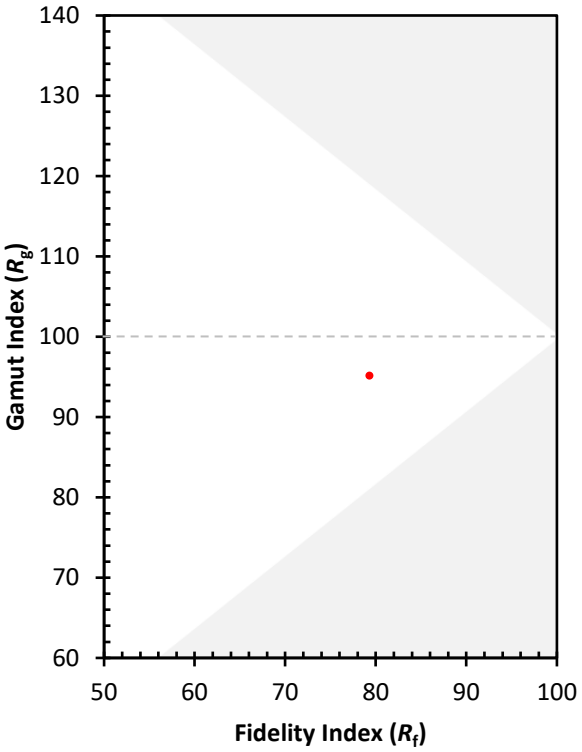


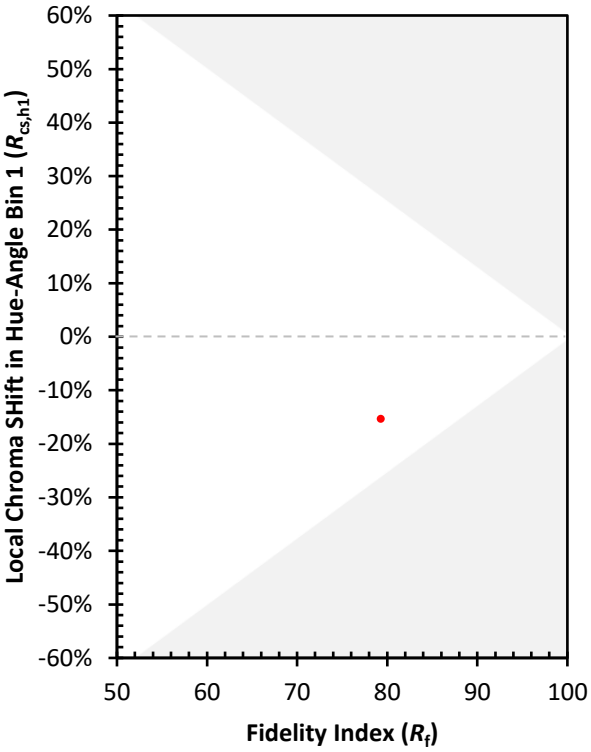


REPORT NUMBER: SP1-2501-332-8

TM-30-18

Measure Comparisons





(END OF REPORT)