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: P1046215

Luminaire Tested: **FFX-CLB-40-740-U-FR-T4-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:	P1046215
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-740-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6057.3 lumens
Efficiency:	N/A
Efficacy:	153.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

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

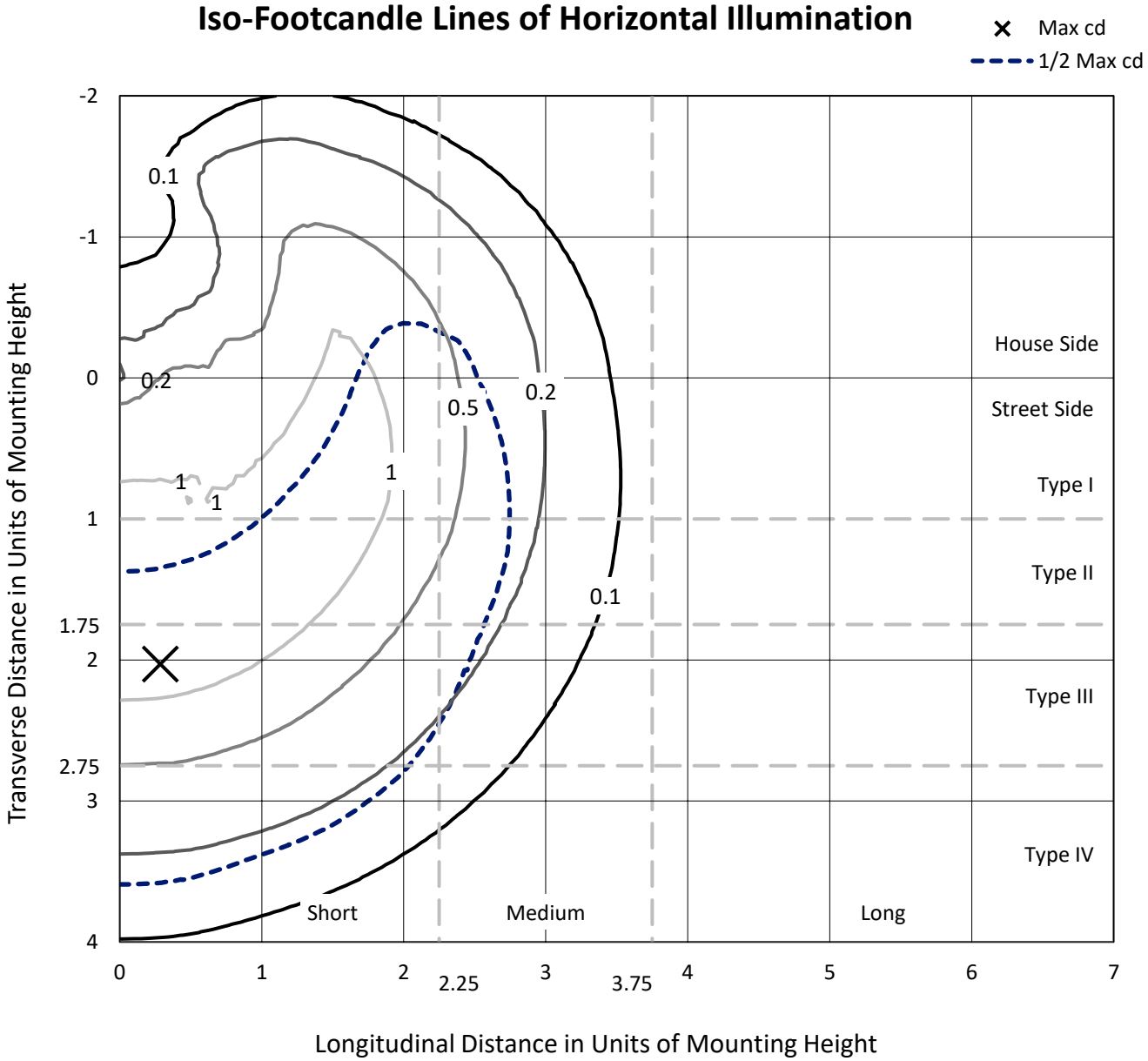


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Iso-Footcandle Lines of Horizontal Illumination



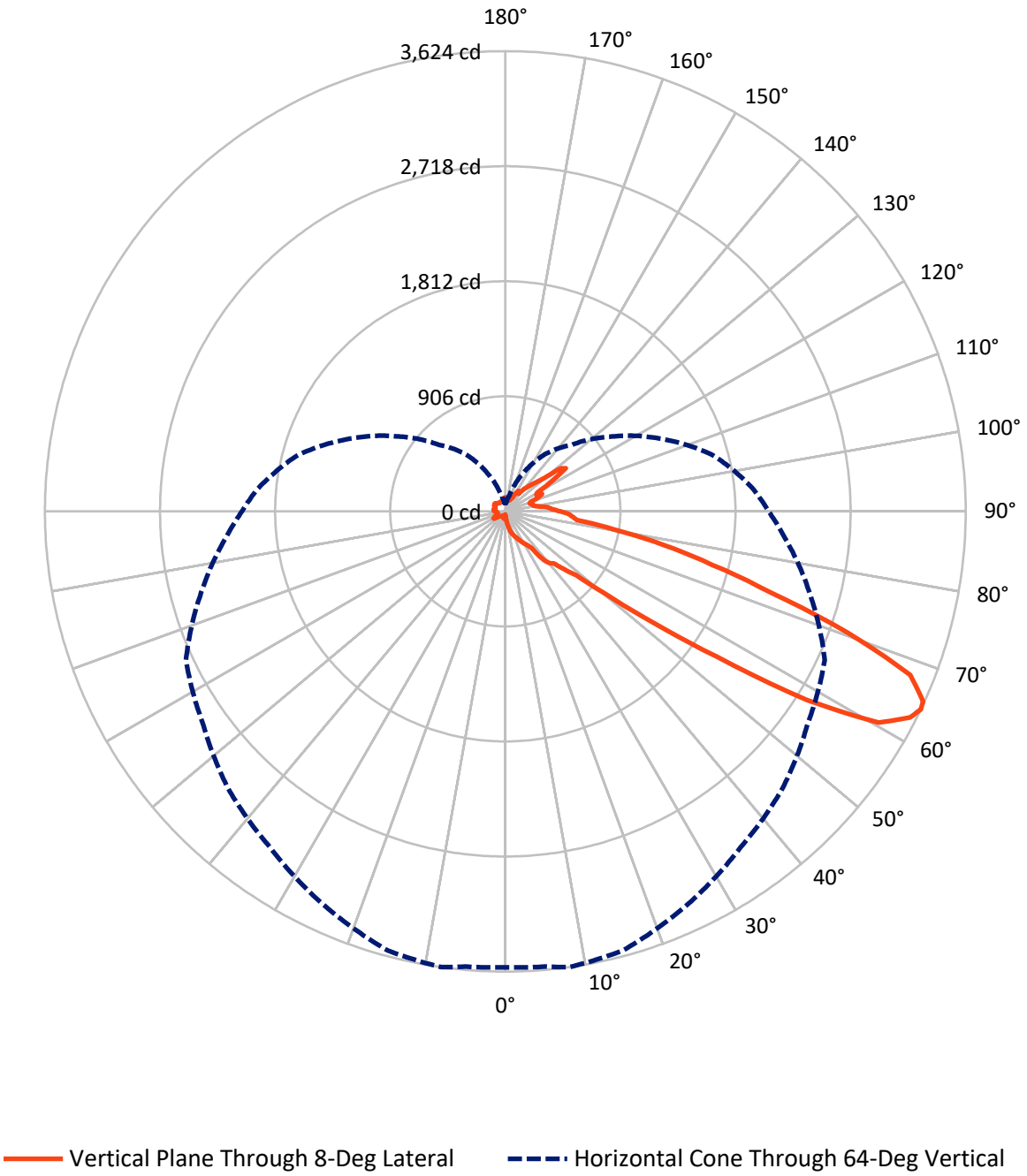
Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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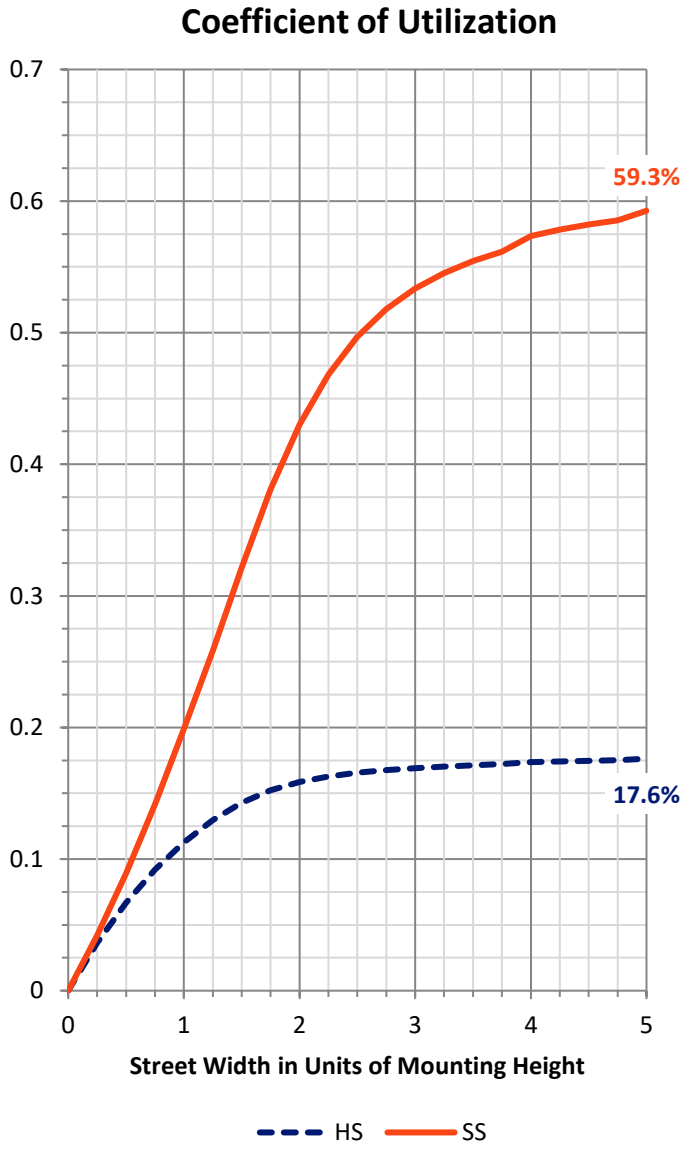
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1107.8	413.8	1521.6
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	3743.3	792.4	4535.7
	% Fixture	61.8	13.1	74.9
Total	Lumens	4851.1	1206.2	6057.3
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	33.4	0.6
20°-30°	72.4	1.2
30°-40°	144.7	2.4
40°-50°	313.2	5.2
50°-60°	1085.8	17.9
60°-70°	1826.4	30.2
70°-80°	993.1	16.4
80°-90°	375.9	6.2
90°-100°	237.2	3.9
100°-110°	160.0	2.6
110°-120°	173.1	2.9
120°-130°	284.9	4.7
130°-140°	175.5	2.9
140°-150°	91.8	1.5
150°-160°	47.8	0.8
160°-170°	26.0	0.4
170°-180°	9.8	0.2
0°-90°	4851.1	80.1
0°-180°	6057.3	100.0



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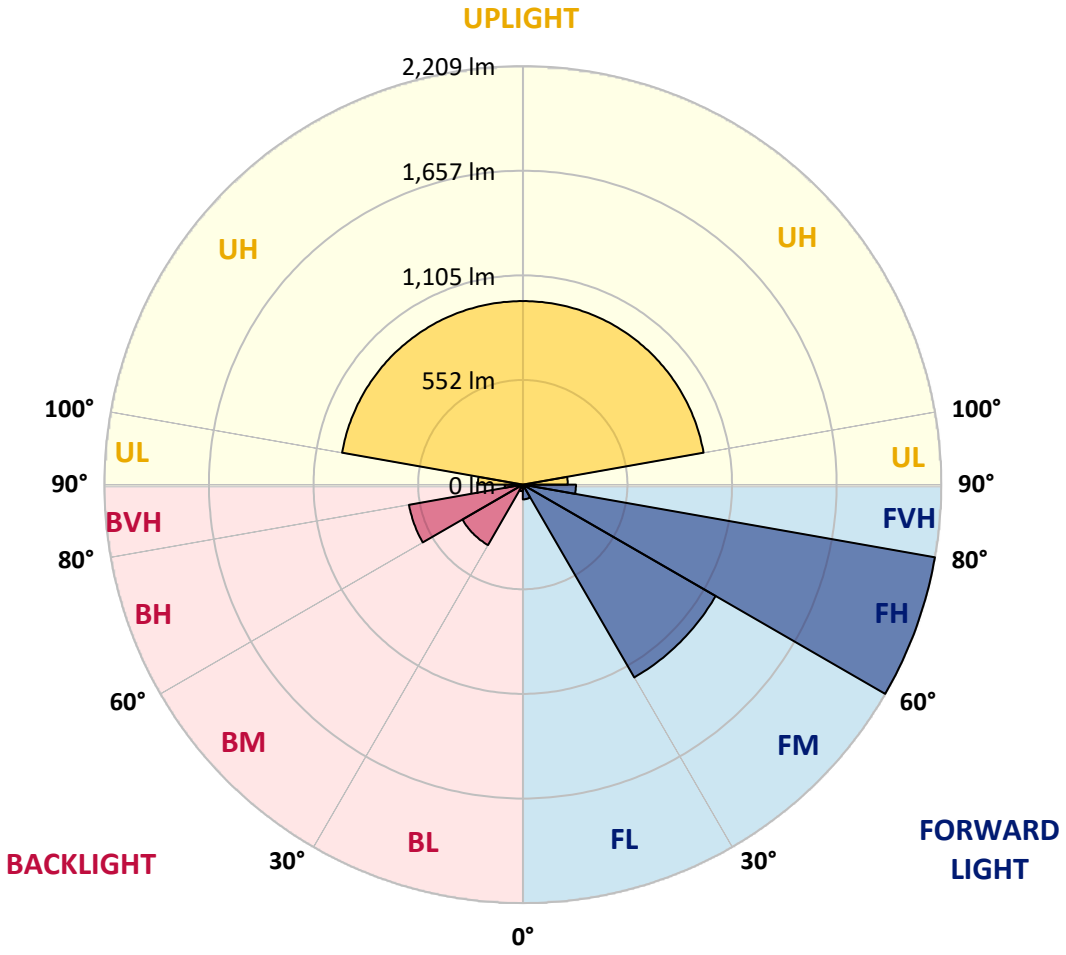
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	77.9	1.3			
FM	(30°-60°)	1175.5	19.4			
FH	(60°-80°)	2209.5	36.5			G2/5000
FVH	(80°-90°)	280.4	4.6			G3/500
BL	(0°-30°)	34.0	0.6	B0/110		
BM	(30°-60°)	368.2	6.1	B1/1000		
BH	(60°-80°)	610.1	10.1	B2/1000		G2/1000
BVH	(80°-90°)	95.5	1.6			G1/100
UL	(90°-100°)	237.2	3.9		U3/500	
UH	(100°-180°)	968.9	16.0		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	38.9	38.9	*38.9*	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
2.5°	42.3	42.3	*42.3*	43.5	44.4	44.8	43.5	42.7	42.3	41.9	40.6
5°	60.7	61.1	*61.1*	62.4	61.6	62.4	60.7	59.5	57.4	54.9	52.8
7.5°	85.8	85.8	*85.4*	85.8	85.4	83.7	83.7	85.0	81.7	76.6	72.0
10°	116.4	117.2	*116.8*	115.2	112.6	110.5	110.5	112.2	107.2	98.4	91.7
12.5°	147.4	149.1	*147.4*	147.8	143.6	142.0	138.6	137.8	131.1	122.7	111.0
15°	170.4	171.7	*172.1*	173.4	172.9	167.5	161.6	155.4	149.9	142.4	130.2
17.5°	188.9	189.3	*190.1*	189.7	187.2	181.7	175.0	168.3	159.5	151.6	140.3
20°	206.9	208.5	*208.1*	207.7	206.4	202.3	194.3	184.7	177.1	165.4	153.7
22.5°	225.3	224.0	*224.9*	224.4	224.4	220.3	211.9	200.6	190.5	178.8	168.3
25°	246.6	246.2	*246.6*	245.4	243.7	241.6	231.1	218.2	206.9	194.7	180.1
27.5°	269.3	269.7	*270.1*	268.0	265.9	262.6	247.5	234.5	222.4	207.3	186.8
30°	294.4	293.1	*293.5*	290.6	289.3	278.9	264.2	248.7	235.3	215.2	195.1
32.5°	317.4	315.3	*314.9*	312.4	310.3	295.2	280.1	265.1	249.2	228.6	211.0
35°	349.6	353.8	*352.2*	352.2	357.6	334.6	317.0	302.3	285.2	263.8	245.4
37.5°	481.1	480.3	*475.3*	468.6	449.7	433.4	425.4	402.4	374.8	351.3	322.0
40°	544.8	542.3	*536.8*	523.4	510.0	490.8	478.6	464.4	450.1	408.7	361.8
42.5°	559.9	557.8	*559.0*	574.9	592.5	578.3	531.0	479.5	454.3	426.3	402.8
45°	642.3	649.5	*651.6*	651.1	638.6	623.5	603.0	572.0	528.5	488.7	439.7
47.5°	747.0	746.2	*751.2*	744.5	755.0	728.6	702.2	670.0	624.8	570.7	512.1
50°	1020.9	1012.1	*1013.4*	1015.9	1000.0	980.7	956.8	938.8	850.5	773.8	684.6
52.5°	1456.0	1457.2	*1448.0*	1447.6	1400.3	1363.0	1321.1	1322.8	1193.0	1090.0	961.0
55°	2046.4	2047.2	*2014.1*	2041.4	1988.2	1983.2	1890.6	1771.3	1596.7	1456.4	1326.6
57.5°	2781.7	2806.8	*2803.9*	2755.3	2674.1	2630.1	2480.6	2355.4	2108.4	1888.1	1711.8
60°	3408.1	3396.4	*3377.1*	3340.3	3097.0	2994.8	2884.7	2777.9	2573.2	2268.3	2004.5
62.5°	3586.9	3578.1	*3574.8*	3556.4	3364.2	3195.8	3057.2	2882.6	2745.7	2446.7	2177.9
64°	*3589.9*	*3597.8*	*3623.8*	*3579.8*	*3409.0*	*3229.3*	*3085.7*	*2907.3*	*2774.2*	*2479.4*	*2198.8*
65°	3583.2	3581.5	*3614.2*	3558.5	3406.9	3227.7	3068.1	2897.3	2765.4	2470.6	2193.4
67.5°	3403.5	3396.4	*3438.3*	3366.7	3234.4	3072.7	2916.1	2732.7	2616.7	2333.6	2065.2
70°	2793.0	2792.6	*2857.9*	2798.0	2758.7	2587.4	2427.4	2259.1	2135.2	1902.8	1678.3
72.5°	2140.2	2136.4	*2180.0*	2135.2	2115.1	2034.2	1884.8	1736.1	1618.0	1443.8	1262.1
75°	1705.5	1707.2	*1684.2*	1640.2	1623.9	1587.9	1521.3	1432.5	1333.7	1175.4	1007.9
77.5°	1277.2	1268.8	*1278.8*	1217.3	1212.7	1201.8	1201.4	1144.4	1060.7	959.8	827.0
80°	851.3	856.3	*874.3*	858.0	862.6	858.8	882.3	822.0	758.3	698.9	628.1
82.5°	550.6	564.0	*569.1*	591.7	611.4	620.2	587.9	527.2	487.4	465.6	434.2
85°	528.5	533.9	*531.0*	517.6	510.9	500.0	499.6	480.3	459.8	417.9	366.8
87.5°	487.4	493.7	*491.2*	479.5	464.4	463.1	460.2	446.8	437.2	404.1	358.9
90°	415.8	416.2	*418.3*	416.2	413.3	411.2	394.5	386.5	380.6	352.2	321.6
92.5°	360.5	365.6	*364.3*	360.5	350.9	356.8	338.8	323.7	320.3	300.7	277.2
95°	331.2	334.6	*335.4*	328.7	319.5	317.4	303.6	291.9	286.4	273.4	245.0
97.5°	274.7	272.6	*270.9*	269.3	263.0	256.3	247.5	232.8	228.2	214.0	198.1
100°	234.5	235.3	*234.5*	233.2	227.8	224.4	218.2	206.4	201.4	192.2	181.3
102.5°	223.6	224.0	*224.0*	224.4	215.2	207.7	201.0	192.6	188.0	180.1	169.6
105°	213.6	213.6	*214.4*	214.8	205.6	194.7	185.1	180.5	178.4	169.2	158.3
107.5°	201.0	200.6	*201.8*	196.4	187.2	182.6	172.5	167.1	166.2	159.1	147.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	219.4	214.8	*214.0*	200.6	188.0	177.5	172.5	167.5	164.6	154.9	147.8
112.5°	287.3	281.0	*279.3*	266.7	222.8	219.0	214.4	212.7	211.0	198.1	185.9
115°	316.6	316.6	*321.6*	316.6	286.0	251.2	246.2	238.7	241.6	225.7	208.1
117.5°	253.3	270.9	*276.0*	260.9	262.1	239.9	205.6	193.9	188.0	183.4	191.4
120°	284.3	296.0	*291.0*	263.4	250.8	237.8	239.5	235.3	214.4	185.5	188.4
122.5°	423.8	434.7	*438.4*	440.5	446.4	437.6	417.9	390.3	369.3	334.6	314.9
125°	593.4	585.4	*584.6*	588.3	592.9	581.6	573.3	567.8	554.8	509.2	445.1
127.5°	544.8	541.0	*547.3*	546.5	557.8	538.5	534.7	537.7	532.6	507.1	469.8
130°	390.7	397.4	*402.0*	417.1	439.3	422.1	406.2	382.3	380.6	393.2	373.5
132.5°	327.9	330.8	*339.2*	358.9	375.6	368.5	345.0	322.0	320.3	330.8	329.1
135°	289.8	291.9	*293.1*	294.0	291.0	297.7	292.7	284.3	278.9	279.3	274.3
137.5°	258.8	259.6	*258.8*	252.1	244.1	242.9	255.4	255.9	250.8	242.0	235.3
140°	224.4	224.4	*221.1*	216.5	215.2	215.7	222.8	224.0	218.2	211.0	201.0
142.5°	175.5	173.4	*173.8*	181.3	194.7	191.8	182.6	170.8	169.2	177.5	174.2
145°	189.7	189.3	*188.0*	188.4	185.1	179.6	176.3	172.5	165.8	160.4	154.9
147.5°	191.4	189.7	*190.5*	188.9	187.2	184.7	183.4	185.1	183.4	179.6	172.5
150°	151.2	152.0	*152.8*	150.7	152.4	153.3	152.4	151.2	153.3	148.7	145.7
152.5°	118.1	117.7	*117.2*	118.1	117.7	119.3	119.8	119.3	118.5	118.1	113.5
155°	111.0	112.2	*111.4*	108.9	110.5	111.8	113.5	114.7	113.5	111.4	107.2
157.5°	102.2	102.2	*102.2*	102.2	102.6	103.0	105.1	105.9	105.9	104.7	101.8
160°	95.1	95.5	*95.5*	95.5	96.3	97.1	98.4	99.2	100.1	99.2	97.6
162.5°	90.9	90.4	*90.4*	90.9	90.9	92.1	93.4	95.1	95.5	94.6	94.6
165°	88.4	88.4	*88.4*	88.8	89.6	90.4	92.1	92.5	93.0	93.8	93.8
167.5°	91.3	91.3	*91.3*	91.7	92.5	93.8	94.6	95.5	97.1	97.6	97.6
170°	95.9	95.9	*95.9*	96.3	96.7	97.1	97.6	98.4	98.8	99.7	99.2
172.5°	100.5	100.1	*100.5*	100.5	100.5	100.5	100.5	100.9	101.3	101.3	101.3
175°	105.5	105.5	*105.9*	105.5	104.7	104.7	104.7	105.1	105.1	105.1	104.7
177.5°	110.5	110.5	*110.1*	110.5	110.1	109.7	109.3	108.9	108.0	108.0	107.2
180°	107.6	107.6	*107.6*	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
2.5°	39.8	38.1	36.0	33.5	31.0	29.3	27.6	25.5	24.3	23.9	23.9
5°	50.2	49.0	46.9	43.5	41.5	37.7	34.3	32.2	30.1	28.1	26.4
7.5°	70.3	69.9	71.2	73.7	70.3	61.6	52.3	47.3	47.7	50.2	51.5
10°	88.4	85.8	86.3	92.1	86.7	69.9	57.4	52.8	55.3	60.3	61.1
12.5°	107.2	103.4	100.5	99.2	87.1	68.3	56.9	51.5	52.8	56.9	56.9
15°	124.4	119.8	113.1	104.3	90.0	73.3	59.5	51.5	51.5	51.1	50.2
17.5°	134.0	129.0	116.8	103.0	87.5	72.4	58.2	50.2	46.1	42.7	42.3
20°	149.1	146.6	131.1	111.4	90.0	70.8	56.1	48.2	43.5	41.0	40.2
22.5°	163.7	156.6	136.5	116.4	92.1	70.3	55.3	47.7	43.5	41.5	40.6
25°	171.7	162.9	142.8	122.3	95.1	70.8	56.1	48.6	44.0	41.9	41.5
27.5°	178.0	168.8	149.9	127.7	98.8	72.4	58.6	49.8	44.8	42.3	41.9
30°	186.3	177.5	158.3	134.4	102.2	76.2	61.6	51.9	46.1	43.5	43.1
32.5°	202.3	191.4	168.8	140.3	106.4	80.0	65.3	55.3	48.2	44.4	44.4
35°	235.3	223.6	193.5	156.2	111.0	82.9	67.8	57.4	49.8	45.6	45.2
37.5°	304.8	290.2	253.3	195.6	122.3	87.1	70.8	58.6	50.7	46.9	46.1
40°	338.3	311.1	269.7	218.6	141.1	93.8	75.4	61.6	51.9	47.3	46.9
42.5°	379.0	356.3	299.4	224.4	156.6	109.3	83.3	65.7	54.4	48.2	47.7
45°	418.7	396.5	345.9	273.0	188.4	133.6	96.3	72.9	58.2	50.2	49.0
47.5°	488.3	451.8	391.1	319.5	232.0	169.2	118.5	82.9	64.5	52.8	51.1
50°	660.4	636.5	543.5	433.8	301.9	220.3	161.2	106.4	71.6	54.4	51.9
52.5°	890.7	845.4	739.9	605.5	438.0	327.0	235.8	157.9	87.9	56.1	52.8
55°	1255.4	1185.0	1063.6	830.8	628.5	495.8	368.9	259.2	134.0	59.9	53.2
57.5°	1645.2	1581.6	1436.7	1148.2	851.7	631.5	485.7	366.0	188.0	68.3	57.8
60°	1906.1	1795.1	1629.7	1350.9	1029.7	742.4	543.5	384.0	195.1	69.9	60.3
62.5°	2055.6	1940.9	1696.3	1376.0	1061.5	767.1	568.7	351.7	155.8	67.8	62.8
64°	*2073.2*	*1962.6*	*1697.2*	*1352.1*	*1027.6*	*741.6*	*551.1*	*330.0*	*135.3*	*67.0*	*64.1*
65°	2059.4	1957.2	1676.6	1323.6	981.9	708.5	530.1	308.2	120.2	66.2	64.5
67.5°	1925.0	1835.3	1541.4	1200.5	873.1	611.8	435.1	237.0	94.2	64.5	63.6
70°	1559.0	1517.9	1267.1	968.5	690.1	487.8	342.9	181.3	80.0	62.8	62.0
72.5°	1169.5	1117.6	945.5	739.1	537.7	379.4	260.5	139.4	70.8	61.1	60.3
75°	937.6	886.9	749.5	582.0	399.9	283.5	192.6	104.3	66.6	60.7	59.9
77.5°	775.1	734.5	616.4	443.0	284.3	203.1	141.5	85.0	65.3	61.1	60.3
80°	596.3	589.6	481.6	322.4	201.4	151.6	114.3	79.6	65.7	62.8	62.0
82.5°	418.3	401.6	340.0	239.9	174.2	138.6	109.7	80.8	69.1	66.6	66.2
85°	344.6	331.6	291.0	230.7	165.8	134.0	108.5	82.9	72.4	70.3	69.5
87.5°	340.9	326.6	288.1	220.7	157.4	127.7	103.4	80.8	72.0	70.8	71.6
90°	309.4	299.0	263.4	203.5	156.2	129.8	108.0	89.2	80.0	75.8	75.0
92.5°	270.9	264.6	239.5	197.6	162.1	137.3	117.7	98.8	90.4	87.9	86.7
95°	236.6	234.1	213.6	179.6	149.5	129.4	111.4	95.1	87.9	84.6	84.2
97.5°	193.9	190.9	175.0	152.8	130.6	113.9	100.5	87.9	82.9	82.5	82.1
100°	177.1	175.0	163.7	149.5	131.9	119.3	107.6	97.1	93.0	93.0	93.4
102.5°	163.7	162.5	152.4	137.8	123.9	112.2	102.6	93.0	87.9	87.9	85.0
105°	152.8	150.7	141.5	129.8	115.6	104.7	95.5	88.4	82.9	81.2	81.2
107.5°	143.2	140.7	133.2	121.9	111.4	100.9	92.5	85.8	82.1	80.8	80.8

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

Scaled Data Report

REPORT NUMBER: P1046215
CATALOG NUMBER: FFX-CLB-40-740-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	143.6	141.5	132.7	120.6	111.0	103.0	96.3	90.0	86.7	84.2	84.2
112.5°	176.7	167.9	152.4	134.4	123.5	113.1	102.6	93.8	89.6	88.8	87.9
115°	200.2	191.4	172.1	148.7	129.0	114.3	103.8	97.1	93.4	95.9	97.1
117.5°	201.0	185.1	148.2	136.9	122.7	110.5	103.4	99.2	96.7	99.2	99.2
120°	204.8	172.5	152.8	148.2	131.5	114.3	106.4	105.5	103.0	98.0	98.0
122.5°	304.4	275.1	243.7	203.9	169.2	152.8	138.6	113.9	102.2	96.7	96.3
125°	419.6	389.0	340.0	286.8	236.6	184.2	136.9	116.8	104.7	98.0	96.7
127.5°	446.0	422.1	357.6	294.0	222.8	171.7	137.3	120.2	108.0	100.9	99.7
130°	359.7	340.9	297.3	245.4	196.0	158.7	134.0	116.8	105.1	98.0	96.3
132.5°	319.9	302.3	259.6	212.3	173.8	144.9	122.7	105.9	94.2	89.2	89.2
135°	267.6	255.4	217.3	189.3	161.6	137.3	115.6	100.1	90.4	87.5	87.5
137.5°	229.5	219.8	192.6	170.4	149.1	128.1	109.3	96.7	90.0	87.1	86.7
140°	196.4	190.1	174.2	152.4	131.9	111.4	96.7	89.6	86.7	85.4	85.0
142.5°	170.8	166.2	152.0	129.4	109.3	96.7	91.3	89.2	86.3	83.3	82.9
145°	149.5	145.7	129.4	116.4	106.8	101.8	97.6	91.3	84.2	80.4	80.0
147.5°	167.9	162.1	147.8	132.7	117.2	105.5	96.3	87.9	81.2	78.7	78.7
150°	144.5	140.3	131.5	119.8	106.8	95.9	87.9	82.5	80.0	79.6	79.6
152.5°	112.2	110.1	107.6	101.8	93.4	86.3	81.2	78.7	79.6	81.2	81.7
155°	105.5	104.7	102.2	96.7	91.3	84.6	80.4	79.1	80.4	82.1	82.5
157.5°	100.5	100.1	98.0	93.0	87.9	83.7	80.8	80.0	81.2	82.5	82.5
160°	96.3	95.9	93.0	89.2	85.4	82.5	80.4	80.4	81.7	82.5	82.5
162.5°	93.8	93.4	91.3	88.4	85.8	84.2	83.7	83.7	84.2	84.6	84.6
165°	93.8	93.4	91.3	88.8	87.1	87.1	87.9	88.4	87.1	86.3	86.7
167.5°	97.6	96.7	94.2	92.1	91.7	92.1	93.4	93.4	92.5	91.3	90.9
170°	98.8	98.4	97.6	96.7	96.7	96.7	97.1	97.6	97.6	98.0	98.0
172.5°	101.3	101.3	100.9	100.9	101.3	100.9	100.9	101.8	102.6	103.0	103.4
175°	104.7	104.3	104.7	104.7	105.1	104.7	104.3	105.1	106.4	107.2	107.2
177.5°	107.2	107.2	106.8	106.4	106.4	106.4	106.4	106.8	106.8	106.8	106.4
180°	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6

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

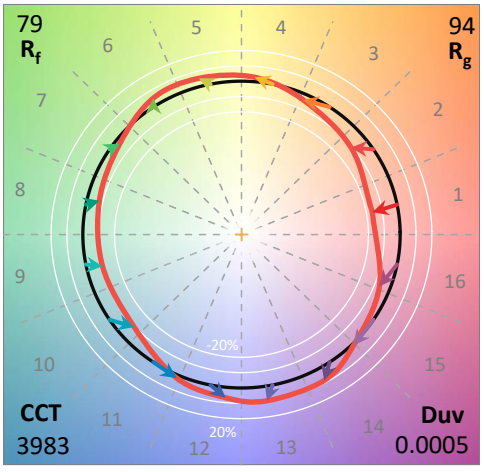
Test Information

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

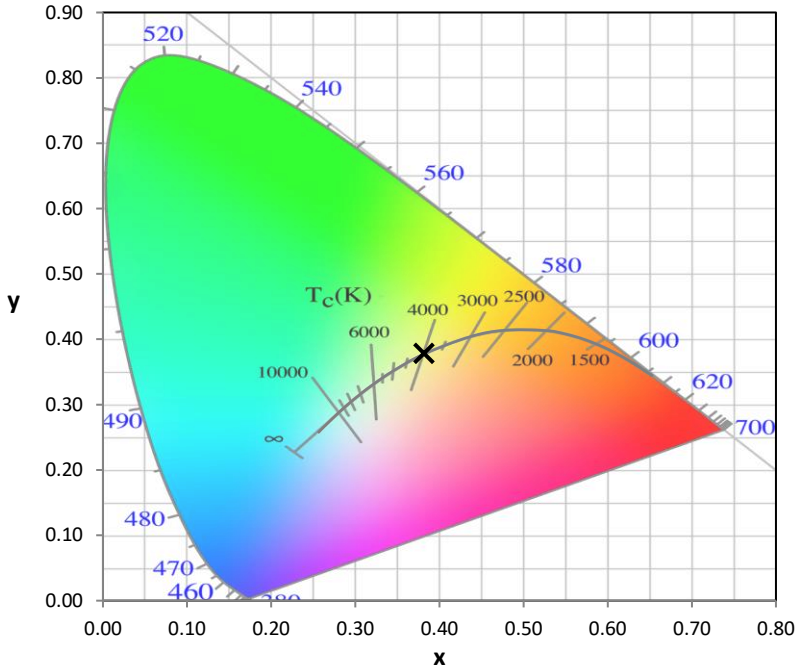
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

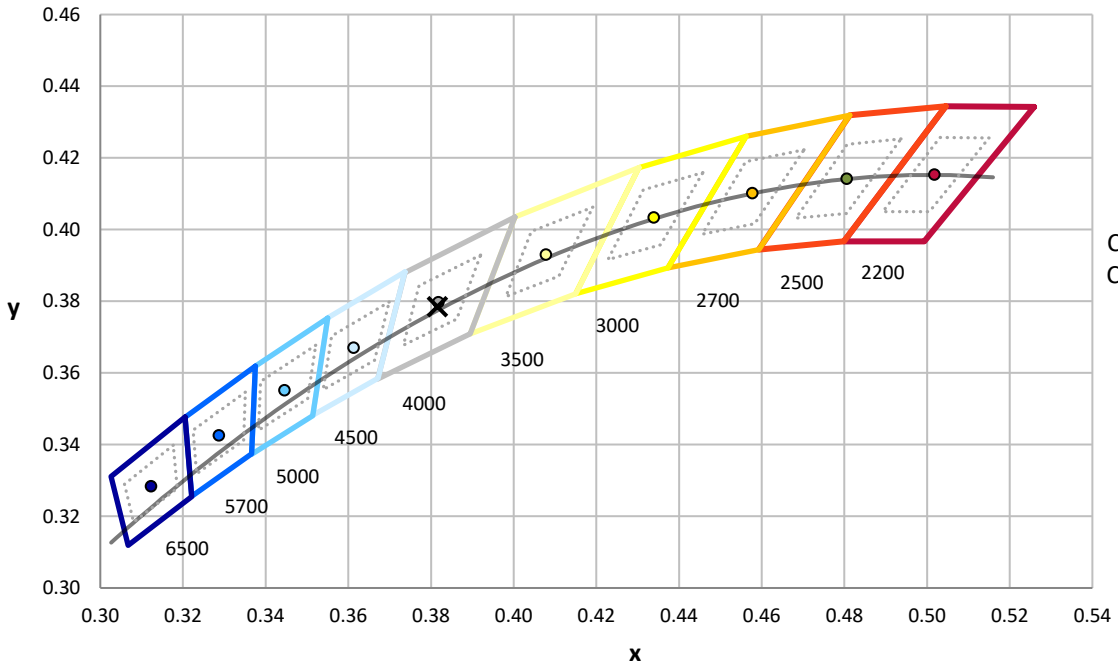
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

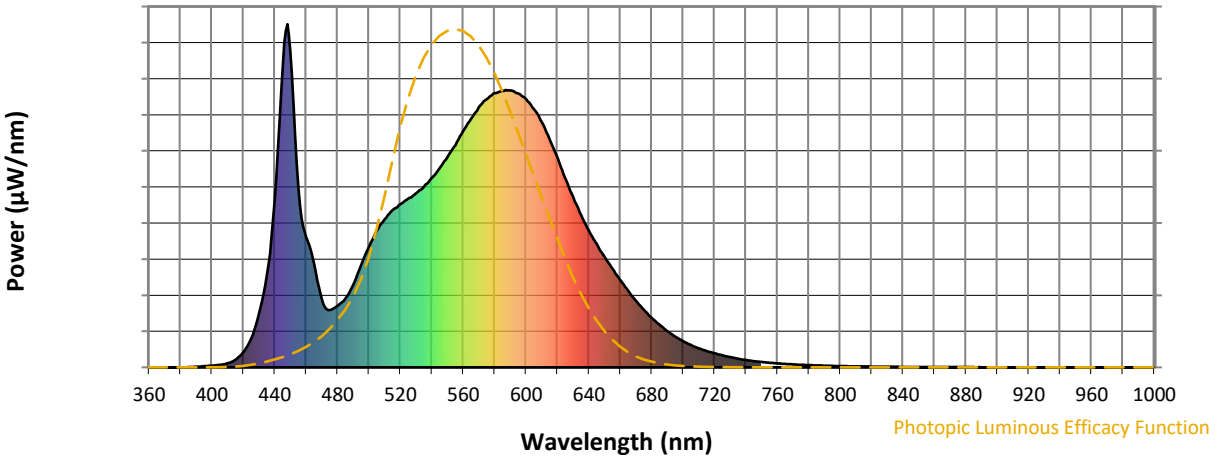


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

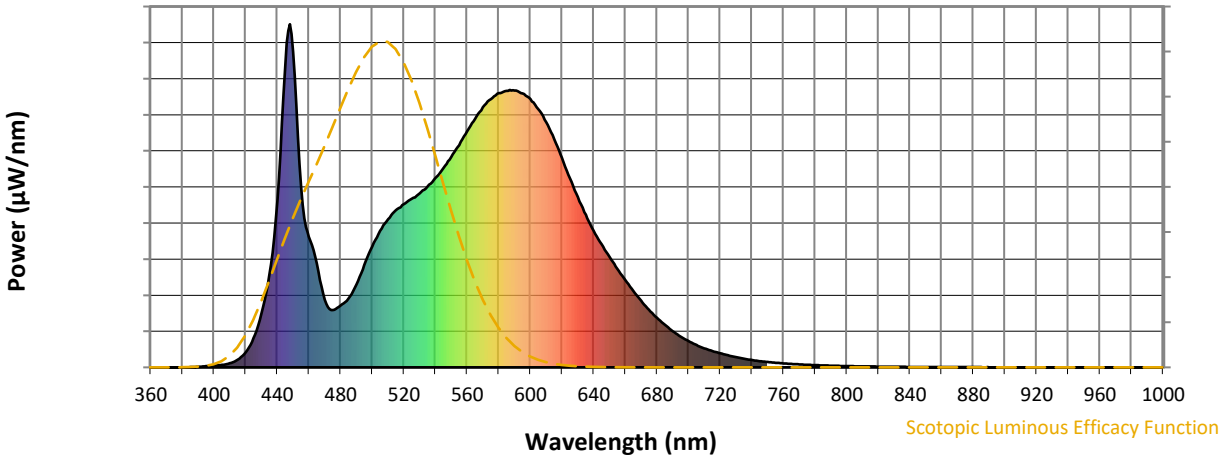


Photopic Lumens: NR

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

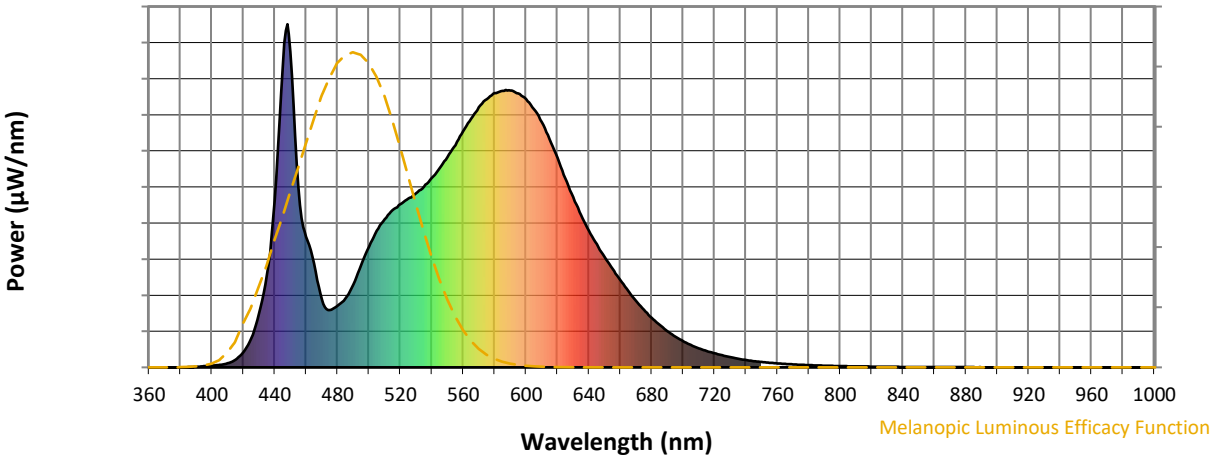


Scotopic Lumens: NR **S/P: 1.61**

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			

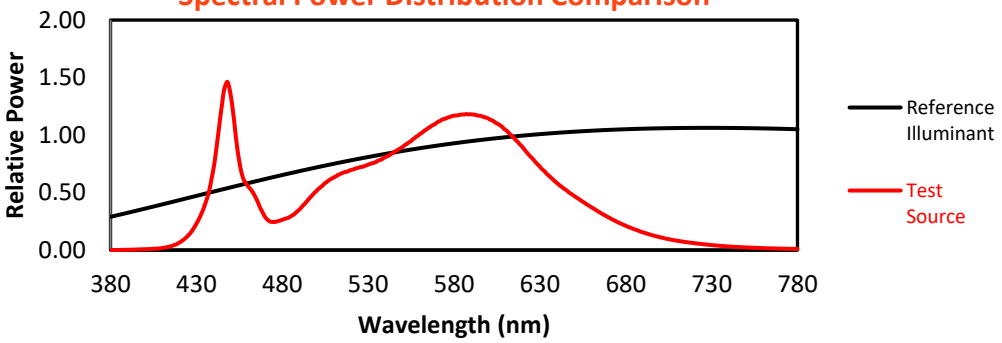
REPORT NUMBER: SP1-2501-332-11

TM-30-18

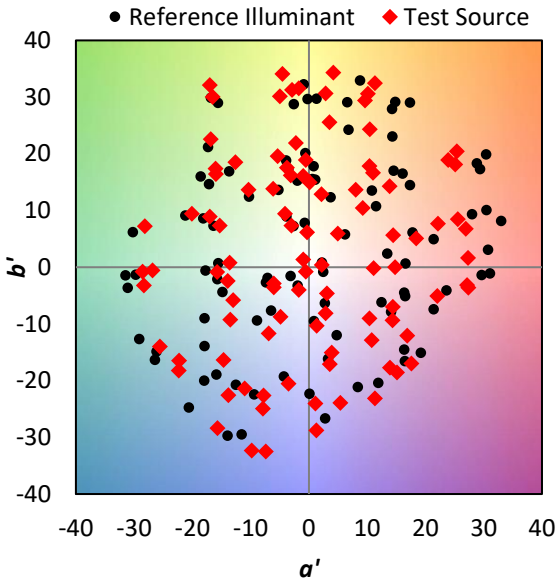
Summary

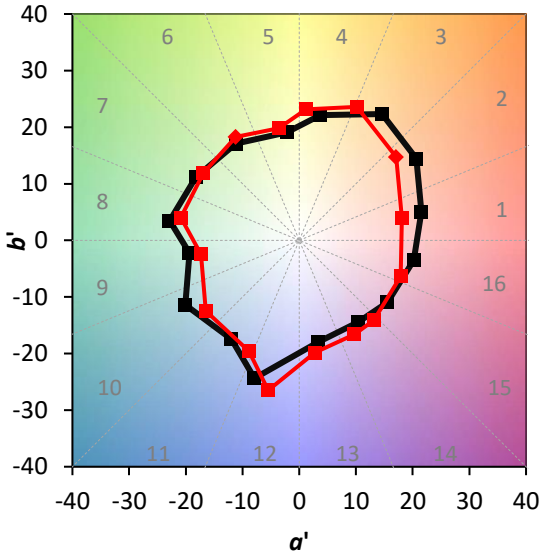
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

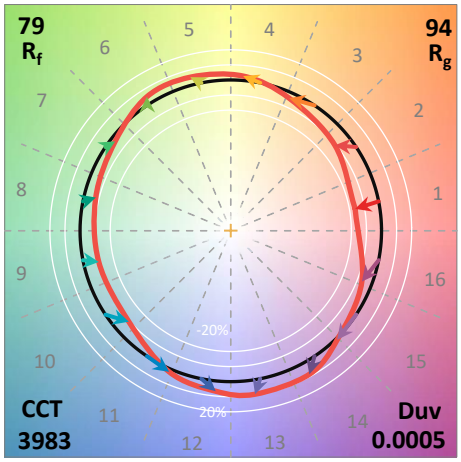
Spectral Power Distribution Comparison

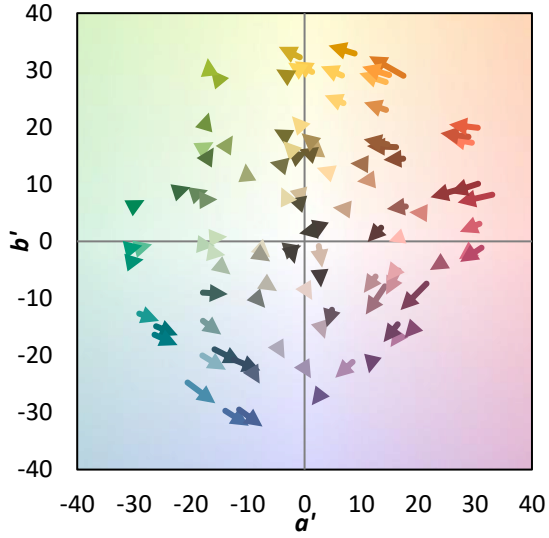


Color Vector Graphics







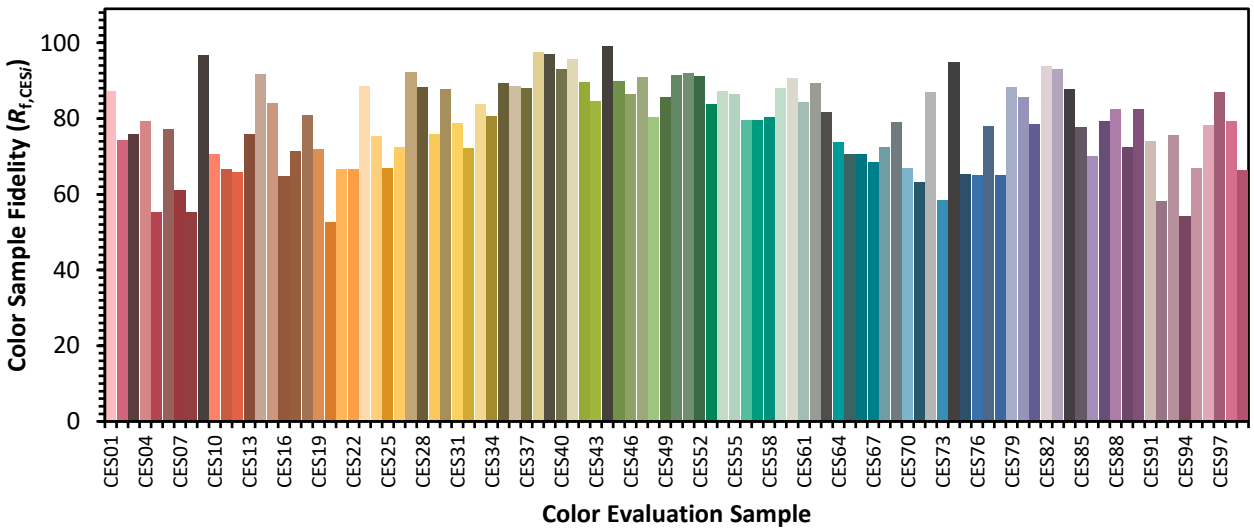


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

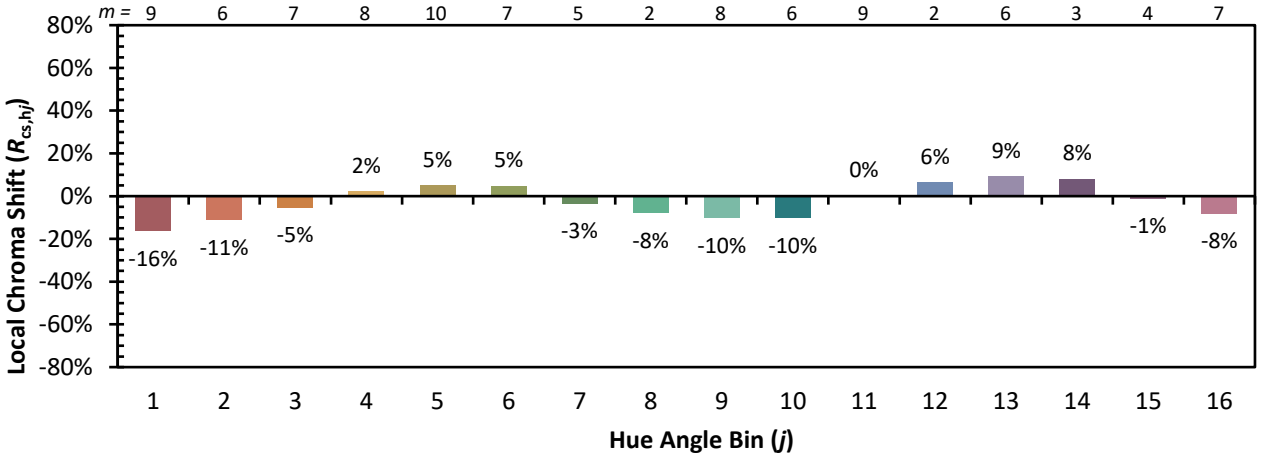
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 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	

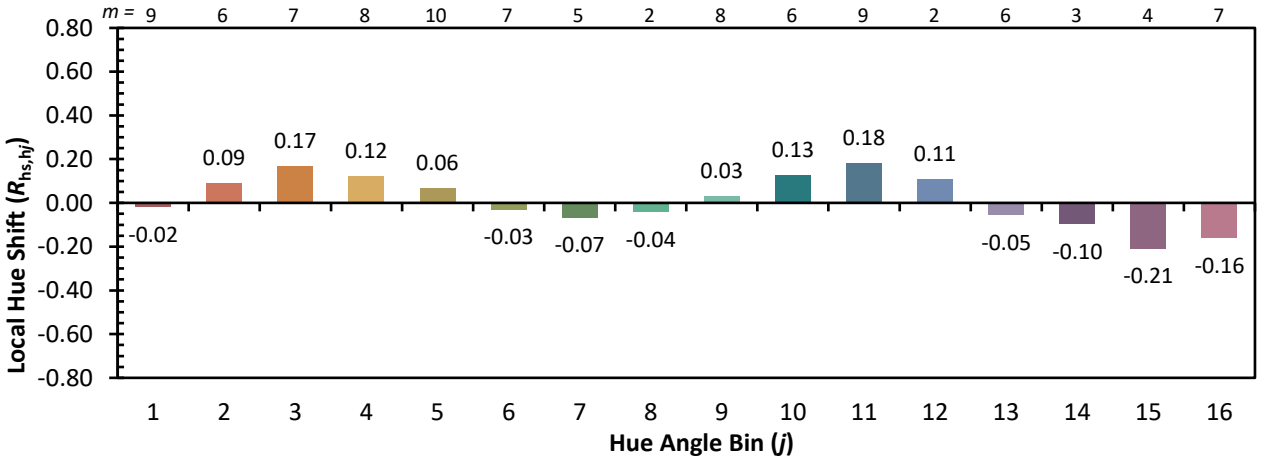


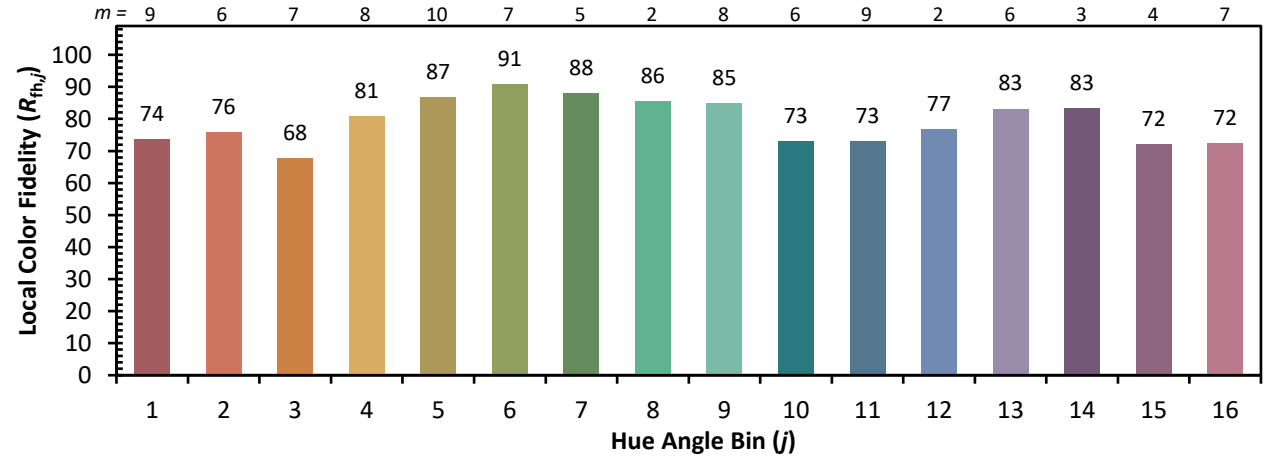
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Color Rendition by Hue-Angle Bin



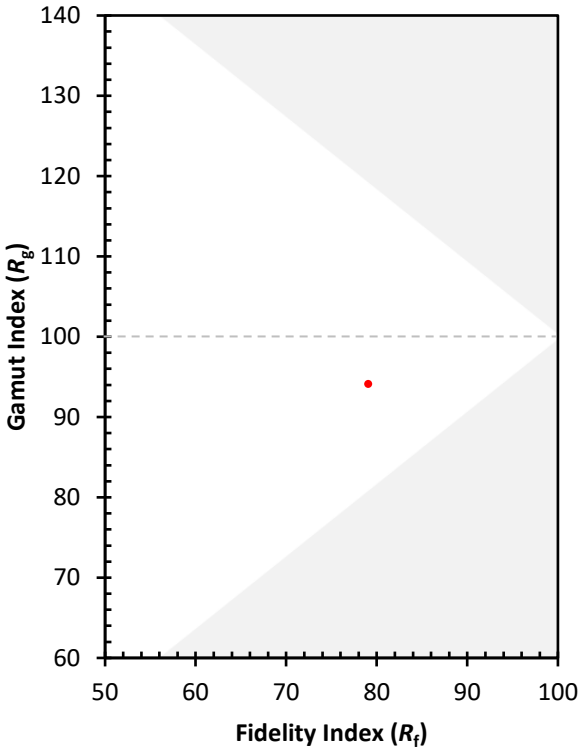


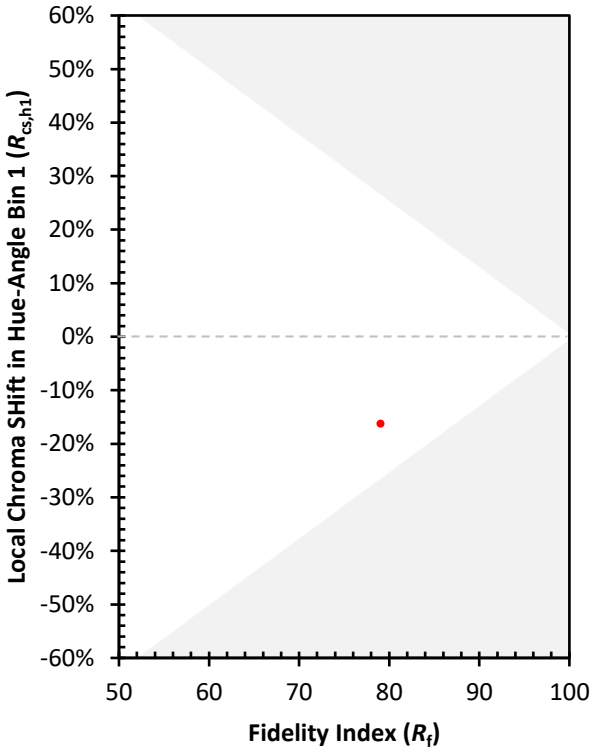


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Measure Comparisons





(END OF REPORT)