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: P1046584

Luminaire Tested: **FFX-CLB-40-750-U-FR-T3-UPLR-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:	P1046584
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-750-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5855.3 lumens
Efficiency:	N/A
Efficacy:	148.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - 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

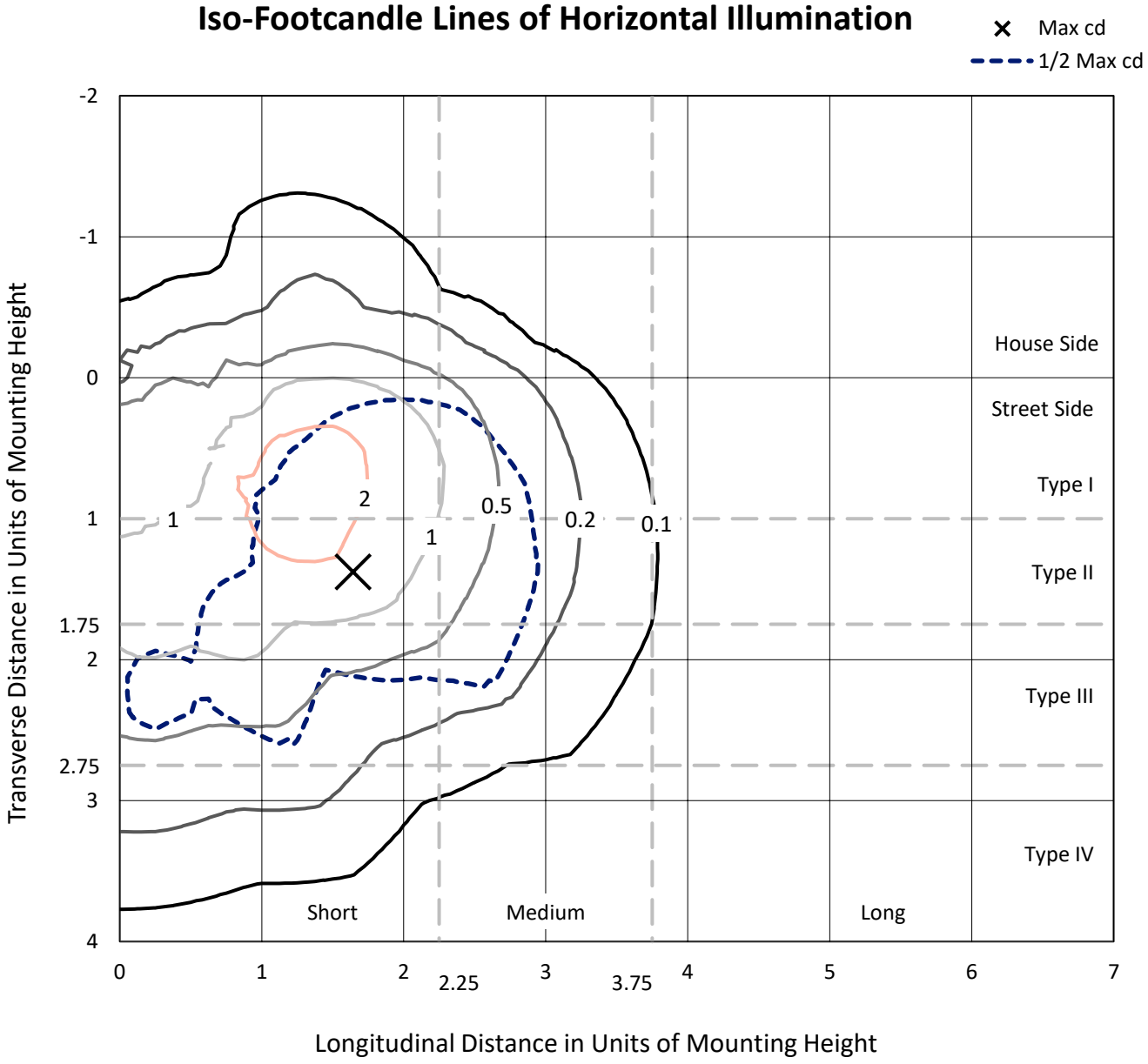


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Iso-Footcandle Lines of Horizontal Illumination



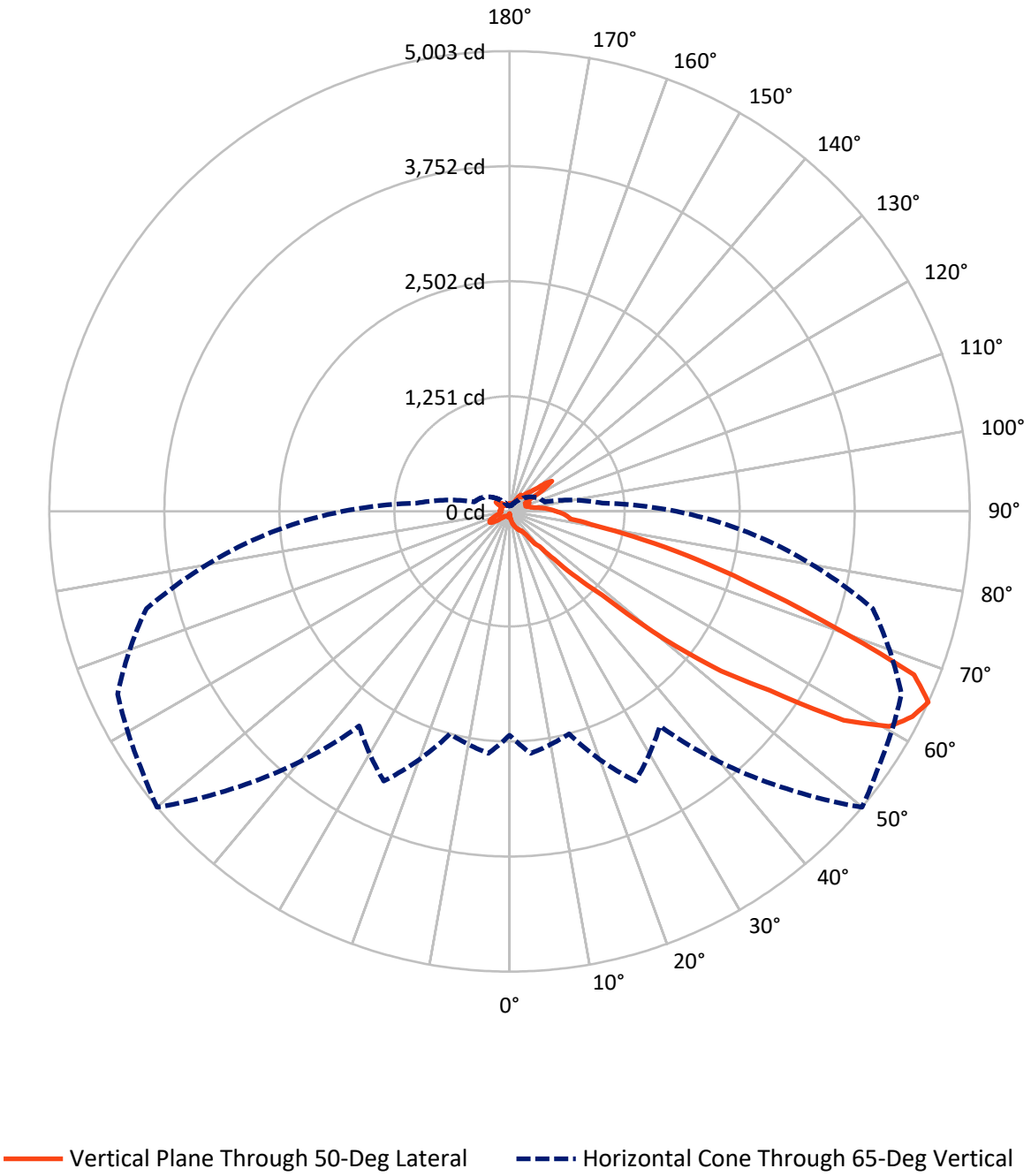
Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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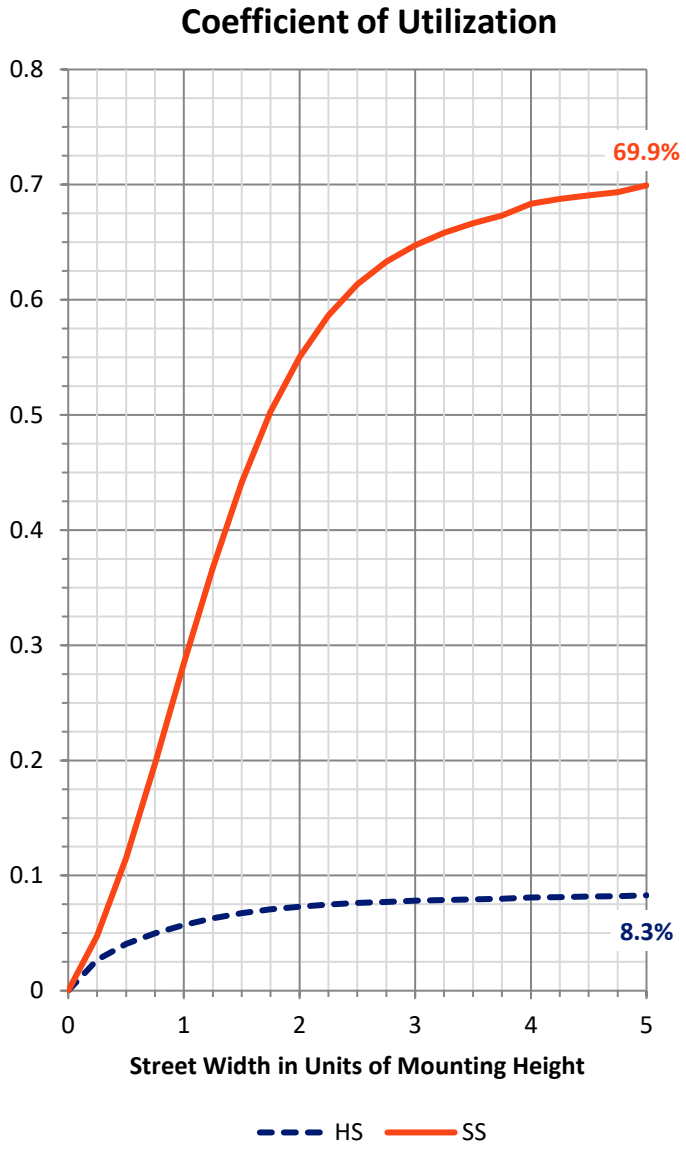
REPORT NUMBER: P1046584
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.6	338.1	851.7
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	4235.5	768.0	5003.6
	% Fixture	72.3	13.1	85.5
Total	Lumens	4749.1	1106.1	5855.3
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.1
10°-20°	30.6	0.5
20°-30°	65.2	1.1
30°-40°	130.3	2.2
40°-50°	341.3	5.8
50°-60°	1130.8	19.3
60°-70°	1783.4	30.5
70°-80°	931.2	15.9
80°-90°	330.7	5.6
90°-100°	213.4	3.6
100°-110°	144.0	2.5
110°-120°	164.3	2.8
120°-130°	272.2	4.6
130°-140°	155.5	2.7
140°-150°	85.1	1.5
150°-160°	41.7	0.7
160°-170°	22.1	0.4
170°-180°	7.9	0.1
0°-90°	4749.1	81.1
0°-180°	5855.3	100.0



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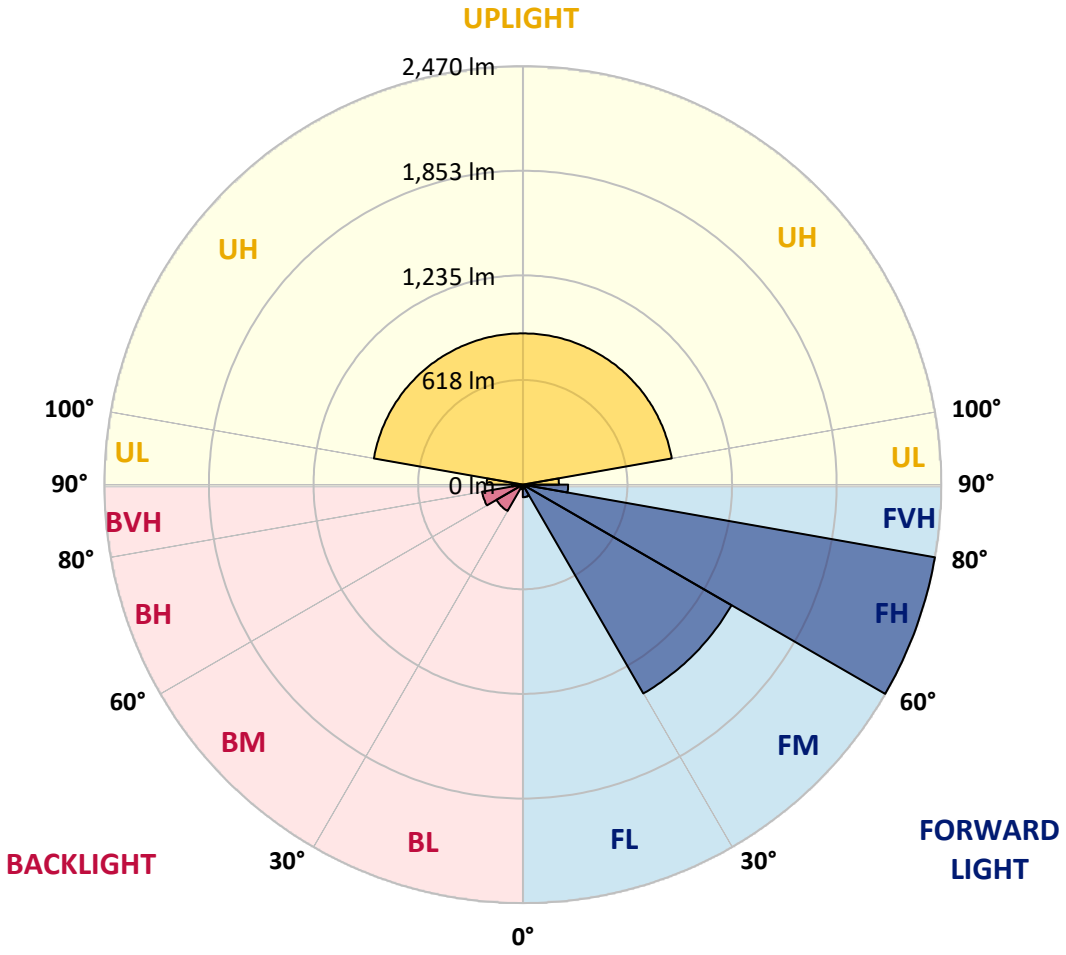
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	74.5	1.3			
FM	(30°-60°)	1422.9	24.3			
FH	(60°-80°)	2470.4	42.2			G2/5000
FVH	(80°-90°)	267.7	4.6			G3/500
BL	(0°-30°)	26.9	0.5	B0/110		
BM	(30°-60°)	179.5	3.1	B0/220		
BH	(60°-80°)	244.2	4.2	B1/500		G1/500
BVH	(80°-90°)	62.9	1.1			G1/100
UL	(90°-100°)	213.4	3.6		U3/500	
UH	(100°-180°)	892.7	15.2		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	32.7	32.7	32.7	32.7	32.7	32.7	*32.7*	32.7	32.7	32.7	32.7
2.5°	39.7	39.3	40.1	41.4	41.0	39.7	*38.9*	38.5	37.2	36.8	35.6
5°	58.8	58.3	57.5	58.3	58.8	57.1	*56.3*	54.2	52.1	48.4	46.3
7.5°	82.3	82.8	83.6	81.5	80.7	77.0	*76.1*	74.1	70.8	66.2	65.0
10°	111.7	112.1	114.2	110.9	105.5	101.0	*100.1*	101.0	104.7	93.1	86.1
12.5°	140.7	139.5	145.7	144.0	137.0	130.3	*127.0*	127.5	125.8	117.1	105.5
15°	167.6	167.6	172.1	173.8	166.4	151.0	*146.1*	144.8	144.0	134.9	118.8
17.5°	184.6	185.4	185.8	185.8	183.3	170.5	*164.7*	162.2	154.8	146.5	131.6
20°	198.6	199.0	195.3	195.7	199.5	188.3	*182.5*	177.5	169.7	161.0	142.4
22.5°	218.1	217.2	211.5	209.0	217.2	207.7	*201.5*	196.1	186.6	176.7	159.7
25°	239.6	238.8	233.0	226.8	232.6	223.9	*217.2*	212.3	203.6	197.0	162.2
27.5°	260.3	259.5	249.5	248.7	243.7	239.6	*232.6*	231.3	224.7	205.2	161.0
30°	275.6	274.8	264.0	264.4	251.6	254.9	*244.6*	243.7	235.9	210.2	163.9
32.5°	281.4	282.2	277.7	275.6	258.2	271.5	*261.9*	258.6	256.6	223.5	178.4
35°	302.5	309.1	316.2	318.6	302.9	327.7	*308.3*	305.8	310.8	271.9	222.6
37.5°	465.1	461.8	435.7	398.9	390.6	445.3	*442.4*	444.4	441.1	386.9	294.6
40°	465.5	467.6	451.1	428.7	402.6	458.5	*501.1*	463.5	518.5	421.7	323.2
42.5°	489.1	482.5	521.8	530.5	501.5	584.7	*710.5*	568.6	687.3	514.0	439.9
45°	578.9	578.9	586.0	590.1	579.7	788.7	*1032.0*	793.3	918.7	643.1	528.0
47.5°	671.6	663.7	703.9	771.3	811.5	1015.1	*1362.3*	1048.2	1246.0	864.4	732.9
50°	936.5	947.6	1024.6	1103.2	1163.2	1511.2	*2193.2*	1795.9	2035.1	1329.2	1118.9
52.5°	1142.1	1207.5	1266.7	1487.2	1514.1	2064.9	*2883.0*	2409.6	2607.4	1867.5	1385.4
55°	1354.4	1483.9	1519.1	1908.5	1939.1	2653.3	*3432.1*	3052.3	3108.1	2462.2	1644.9
57.5°	1743.4	1924.2	1936.2	2351.7	2350.4	3418.5	*4285.0*	3974.6	3932.4	3135.4	2042.6
60°	2078.1	2284.2	2210.6	2786.2	2657.1	3982.5	*4747.2*	4434.4	4342.1	3675.5	2322.3
62.5°	2281.3	2482.4	2391.8	3072.5	2852.8	4252.3	*4914.4*	4731.9	4574.7	4002.4	2550.3
65°	*2432.8*	*2640.1*	*2504.4*	*3235.2*	*2849.1*	*4265.5*	*5003.0*	*4885.0*	*4700.9*	*4087.6*	*2600.4*
67.5°	2412.9	2615.3	2452.6	3170.6	2650.0	3884.4	*4742.7*	4595.8	4368.2	3758.6	2432.0
70°	2092.2	2214.3	2035.5	2700.5	2118.7	3004.7	*3694.5*	3609.7	3390.8	2877.2	1881.2
72.5°	1761.2	1791.4	1623.8	2113.7	1651.9	2189.1	*2807.3*	2716.7	2573.1	2135.3	1421.8
75°	1360.2	1360.2	1264.2	1584.9	1227.4	1553.4	*2124.9*	2101.7	2013.2	1602.3	1079.6
77.5°	918.7	870.7	856.2	1070.5	847.9	1025.0	*1479.4*	1534.0	1510.8	1147.1	787.1
80°	535.5	547.1	526.8	660.9	557.8	670.4	*949.3*	1021.3	1019.2	761.8	516.4
82.5°	417.5	425.8	404.7	475.9	425.8	527.6	*665.4*	660.9	676.6	552.0	388.6
85°	411.3	417.5	395.6	439.9	408.8	501.1	*625.3*	624.0	620.7	511.1	365.0
87.5°	374.1	382.4	363.3	398.9	370.8	457.7	*568.2*	574.8	565.3	479.2	350.9
90°	312.8	321.5	313.3	354.6	325.7	394.8	*494.1*	499.1	490.8	427.1	316.6
92.5°	281.4	287.2	277.3	313.3	282.6	346.8	*436.6*	439.5	426.6	375.7	273.9
95°	259.5	265.3	252.8	279.3	249.5	305.8	*371.6*	381.1	362.1	317.0	233.4
97.5°	215.6	211.9	206.9	229.7	206.5	240.8	*284.3*	291.3	279.3	245.8	185.8
100°	186.6	187.9	185.8	202.4	181.2	206.9	*240.8*	243.7	238.8	214.4	168.0
102.5°	180.8	181.2	185.0	196.1	171.7	190.4	*219.3*	221.0	219.7	196.6	155.2
105°	179.2	178.8	180.8	192.8	167.6	174.2	*201.9*	202.8	198.6	182.9	145.2
107.5°	169.2	170.5	170.1	180.8	164.7	165.5	*183.3*	182.9	182.1	167.6	137.4
110°	194.1	192.0	183.3	183.7	168.0	172.1	*189.9*	187.9	183.7	175.0	149.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	276.0	270.2	260.3	227.6	211.0	222.6	*234.6*	236.7	232.1	224.3	189.5
115°	306.2	305.4	294.2	272.7	218.1	222.2	*230.1*	233.4	238.8	223.5	194.1
117.5°	251.2	264.8	247.5	250.4	219.3	192.8	*191.6*	185.0	187.9	186.2	179.6
120°	317.0	319.5	284.3	277.7	256.1	264.8	*265.3*	266.1	257.4	215.6	189.9
122.5°	445.7	445.7	455.6	473.8	462.6	446.9	*437.8*	428.7	416.7	377.0	322.4
125°	565.3	564.4	559.1	568.2	557.0	563.2	*566.1*	568.6	555.7	507.3	432.8
127.5°	455.6	467.2	486.6	535.9	504.8	496.2	*487.9*	493.7	484.2	475.1	428.7
130°	353.0	354.2	386.1	417.5	415.1	387.3	*377.8*	361.3	365.0	363.7	336.0
132.5°	301.7	303.3	321.9	339.7	354.6	334.4	*315.7*	307.0	309.9	307.9	290.1
135°	263.6	263.6	257.0	254.9	267.3	285.9	*283.9*	272.7	267.3	261.1	234.6
137.5°	228.0	227.2	215.2	208.6	218.5	242.5	*244.1*	244.1	238.8	223.9	204.8
140°	187.9	186.6	180.4	181.7	184.1	200.3	*201.5*	205.2	204.4	192.4	169.2
142.5°	142.4	142.8	151.9	162.2	168.0	202.8	*197.4*	193.2	206.5	205.7	147.7
145°	189.9	185.8	185.8	181.2	194.9	229.3	*218.5*	221.8	239.2	223.0	159.7
147.5°	174.2	176.3	176.7	175.9	193.2	195.3	*187.5*	187.9	194.1	194.1	163.5
150°	134.9	131.6	132.4	134.1	152.3	151.0	*144.0*	143.6	148.6	147.3	133.7
152.5°	106.8	106.3	105.9	107.6	122.5	116.3	*113.4*	112.1	111.3	110.1	106.8
155°	100.6	100.1	99.3	101.4	110.1	107.2	*105.5*	105.5	103.5	101.4	99.3
157.5°	89.4	89.0	89.4	93.5	98.5	95.2	*94.8*	94.3	93.5	91.0	90.2
160°	83.6	83.2	84.0	87.3	89.4	86.5	*85.7*	86.1	85.7	84.4	86.1
162.5°	79.0	79.0	79.0	81.1	81.9	79.9	*79.5*	79.9	80.3	80.3	82.3
165°	76.6	76.6	77.0	78.2	78.2	77.4	*76.6*	76.6	78.6	79.5	81.1
167.5°	78.2	78.2	78.6	79.0	79.0	78.2	*78.2*	78.6	79.9	80.7	80.7
170°	80.7	80.7	80.7	81.1	80.7	79.5	*79.5*	79.5	79.9	79.9	80.3
172.5°	83.6	83.6	83.6	83.2	82.3	81.9	*81.1*	81.1	81.5	81.1	81.5
175°	87.7	87.3	87.3	86.9	86.5	86.1	*85.7*	85.2	85.2	84.0	84.0
177.5°	89.8	89.4	89.8	89.8	89.4	88.6	*87.7*	87.7	87.3	86.5	86.1
180°	86.5	86.5	86.5	86.5	86.5	86.5	*86.5*	86.5	86.5	86.5	86.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	34.8	33.5	30.2	27.3	25.2	24.4	24.4	23.2	21.5	20.3	19.9
5°	45.9	45.1	43.9	42.2	38.5	33.5	29.4	27.7	26.9	26.5	26.1
7.5°	65.0	65.8	67.5	67.0	60.0	46.8	38.9	38.5	43.0	48.0	49.7
10°	84.0	83.2	88.6	93.1	75.7	53.0	40.1	38.9	45.1	53.8	55.0
12.5°	100.6	96.4	93.5	88.6	72.4	53.0	43.0	40.6	43.4	50.1	50.1
15°	113.0	107.6	95.6	84.0	69.5	54.6	44.7	43.0	43.0	41.0	41.4
17.5°	122.5	112.6	95.2	80.3	64.6	52.1	44.3	39.7	37.2	33.9	33.1
20°	133.7	126.6	103.5	82.8	63.7	50.5	43.0	37.7	34.8	33.5	33.1
22.5°	145.7	131.2	108.8	83.6	63.7	51.3	42.6	36.8	34.3	33.5	33.5
25°	146.9	134.5	111.7	86.9	65.8	53.0	43.4	37.2	34.8	33.9	33.5
27.5°	145.2	136.6	116.7	90.6	67.9	54.6	45.1	38.1	34.8	33.5	33.1
30°	151.5	144.4	122.5	93.1	69.9	56.7	46.8	39.7	35.6	33.1	32.7
32.5°	167.2	157.2	130.3	94.8	70.8	57.1	48.4	41.4	36.4	33.5	33.1
35°	208.6	199.5	160.6	100.6	70.8	57.9	49.7	42.6	37.2	33.9	33.5
37.5°	268.6	251.6	197.4	120.0	71.6	59.6	50.9	44.3	38.5	34.8	33.9
40°	284.7	240.4	167.6	107.6	73.2	61.2	53.0	45.9	40.1	36.0	35.6
42.5°	369.5	307.5	206.9	113.8	78.2	62.5	54.2	47.6	41.4	37.2	36.4
45°	395.6	307.9	210.2	131.6	91.9	67.9	56.3	48.8	42.2	38.1	37.7
47.5°	518.5	381.9	214.4	141.1	103.0	78.2	61.2	50.5	43.0	38.9	38.5
50°	760.2	538.8	266.1	176.3	127.5	95.6	72.0	53.8	43.9	40.1	39.3
52.5°	948.5	646.4	288.4	215.6	169.2	126.2	90.6	62.5	46.3	41.0	40.1
55°	1156.2	794.1	327.7	259.9	205.2	158.1	115.0	75.3	51.3	42.2	41.4
57.5°	1442.1	948.0	384.8	306.6	249.1	184.6	131.2	88.1	57.9	45.1	43.4
60°	1615.9	1013.4	393.9	331.9	275.2	205.7	138.2	93.5	65.0	49.2	46.8
62.5°	1782.3	1058.5	396.4	341.8	281.4	209.8	139.0	91.0	67.5	55.0	51.7
65°	*1816.2*	*1013.8*	*397.3*	*343.9*	*273.9*	*199.0*	*134.5*	*88.6*	*64.6*	*60.0*	*60.4*
67.5°	1701.6	900.4	368.3	329.0	254.1	177.5	120.8	84.8	63.7	59.2	60.4
70°	1337.8	705.5	336.4	305.0	215.6	151.0	107.6	79.9	63.7	57.1	55.9
72.5°	1038.7	602.9	344.7	289.7	184.6	134.9	97.2	74.5	61.7	56.7	55.9
75°	806.1	503.2	339.7	254.9	150.6	115.9	87.3	68.3	58.8	55.9	55.5
77.5°	589.3	396.8	281.0	195.3	125.0	98.5	77.0	64.1	57.1	54.6	54.2
80°	379.0	277.7	195.7	156.0	109.7	89.8	72.0	61.2	56.3	54.6	54.2
82.5°	319.5	252.0	176.3	147.7	105.9	91.5	75.3	64.1	59.2	57.5	57.1
85°	307.5	259.5	181.2	153.9	101.4	87.3	73.7	64.1	59.6	57.5	57.1
87.5°	292.1	234.6	178.8	141.5	97.7	84.0	72.4	65.8	61.2	60.0	59.6
90°	264.4	206.9	163.9	131.6	103.0	89.4	79.9	72.8	68.3	65.4	64.6
92.5°	223.0	166.4	140.7	129.9	113.0	101.4	91.9	85.7	80.7	77.8	76.6
95°	187.9	145.2	122.5	115.0	99.7	91.0	81.9	77.4	73.7	71.2	71.2
97.5°	153.1	124.6	113.8	108.0	95.6	86.1	78.6	74.1	72.8	72.0	71.6
100°	144.0	122.1	114.6	109.7	99.7	91.0	85.2	81.1	80.7	80.3	80.3
102.5°	133.7	115.5	107.2	102.2	92.3	84.8	80.7	77.4	76.1	74.9	73.7
105°	126.2	109.2	103.0	96.4	88.6	81.1	77.0	72.0	71.2	70.8	70.8
107.5°	122.5	108.4	105.1	94.8	87.3	84.0	79.0	72.8	71.6	69.9	69.9
110°	135.3	120.4	110.9	98.1	90.2	87.3	86.1	80.7	76.6	71.6	71.2

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

Scaled Data Report

REPORT NUMBER: P1046584
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	167.6	147.3	136.1	117.1	101.0	93.9	88.6	82.8	80.3	77.0	75.7
115°	180.4	159.7	145.7	126.6	108.0	95.6	87.7	86.9	84.4	82.3	84.4
117.5°	185.0	145.2	120.0	115.5	101.4	91.5	87.7	86.5	87.3	87.3	83.6
120°	199.5	156.8	147.3	141.5	115.0	98.9	90.6	94.8	93.9	89.0	89.0
122.5°	297.5	265.7	234.2	195.3	162.2	143.2	115.0	96.4	92.7	89.4	87.3
125°	391.9	363.3	314.1	262.4	205.2	151.9	114.2	101.0	93.9	89.8	90.6
127.5°	399.3	369.1	312.8	249.5	183.3	141.9	115.0	103.5	95.6	91.0	90.2
130°	312.0	290.5	248.3	201.9	155.6	127.0	106.3	94.8	87.7	83.6	82.8
132.5°	276.0	257.8	213.9	173.4	141.9	117.9	100.1	87.3	82.3	79.5	79.0
135°	220.6	205.2	175.9	153.9	132.0	112.1	94.3	82.3	77.8	77.4	76.6
137.5°	193.2	180.8	158.1	139.9	121.7	102.6	87.7	77.8	75.7	76.1	74.9
140°	157.7	152.3	139.5	123.7	104.3	84.4	74.1	70.8	74.1	75.7	75.7
142.5°	135.3	128.3	113.8	95.6	83.2	74.1	72.8	71.6	73.2	74.1	74.1
145°	124.6	116.3	104.3	97.7	91.9	84.0	77.4	71.6	69.9	70.3	70.3
147.5°	140.7	131.2	123.3	110.9	96.8	83.6	73.7	67.0	67.0	68.7	69.1
150°	116.7	108.4	103.0	96.0	85.2	74.5	67.5	64.1	65.4	68.7	69.1
152.5°	97.7	87.7	84.4	80.3	74.5	68.7	65.4	63.7	65.8	68.3	68.3
155°	95.2	86.5	82.3	78.2	72.8	67.9	65.0	64.1	66.2	67.9	68.3
157.5°	89.4	84.4	79.0	75.7	71.6	67.9	65.8	65.0	66.6	67.9	68.3
160°	86.1	83.2	77.0	74.1	70.3	67.9	67.5	67.5	68.3	68.7	68.7
162.5°	82.3	80.7	77.0	74.5	72.0	70.8	71.6	72.0	72.0	71.6	71.6
165°	81.1	80.3	77.0	74.9	73.7	74.1	75.7	76.1	74.9	74.1	74.1
167.5°	80.7	80.7	78.2	76.6	76.1	77.0	78.6	78.6	77.4	75.7	75.3
170°	80.7	81.1	80.3	80.3	79.5	79.9	80.3	80.3	79.5	78.6	78.2
172.5°	81.9	81.9	81.9	81.9	81.5	81.9	82.3	82.3	82.3	81.9	81.9
175°	84.0	84.0	84.0	83.6	83.2	83.2	83.6	84.0	84.4	84.4	84.4
177.5°	86.1	85.7	85.2	85.7	85.2	85.2	86.1	86.5	86.9	86.9	86.9
180°	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5

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: SP1-2501-332-10

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

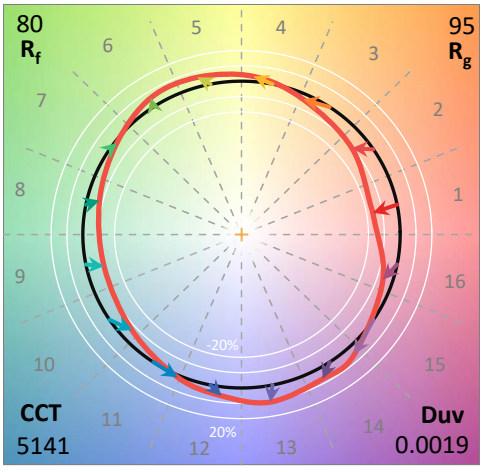
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-10
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-20-750-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):	5141	CRI (Ra):	78.0		
CIE u':	0.2087	R1:	75.1	R9:	-20.0
CIE v':	0.4845	R2:	83.7	R10:	62.4
Duv:	0.0019	R3:	90.5	R11:	77.7
CIE x:	0.3415	R4:	78.3	R12:	58.6
CIE y:	0.3524	R5:	77.1	R13:	76.9
CIE z:	0.3060	R6:	78.0	R14:	95.0
Peak Wavelength (nm):	448	R7:	82.9	R15:	67.8
Dominant Wavelength (nm):	568	R8:	58.7		
Purity:	8.219556				
Rf:	79.6				
Rg:	95.3				



Test Conditions

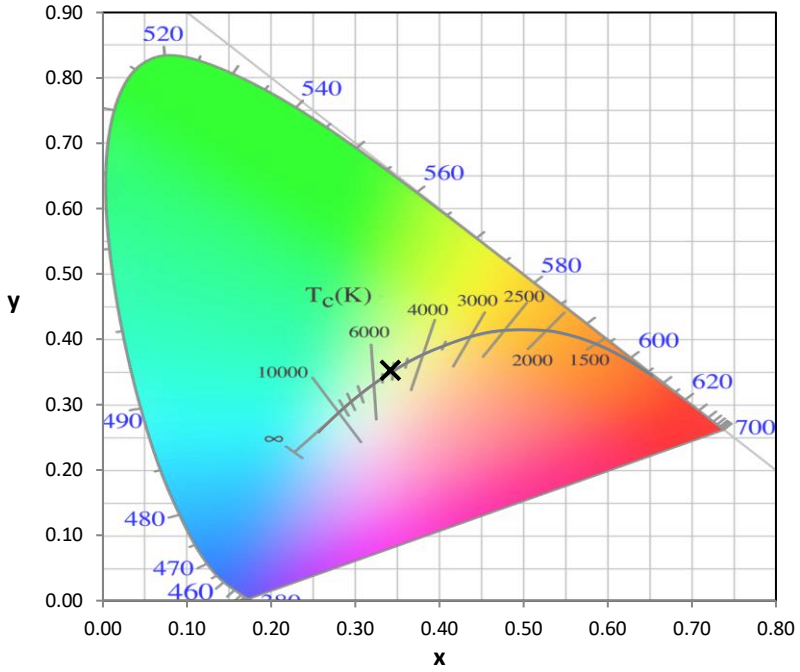
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

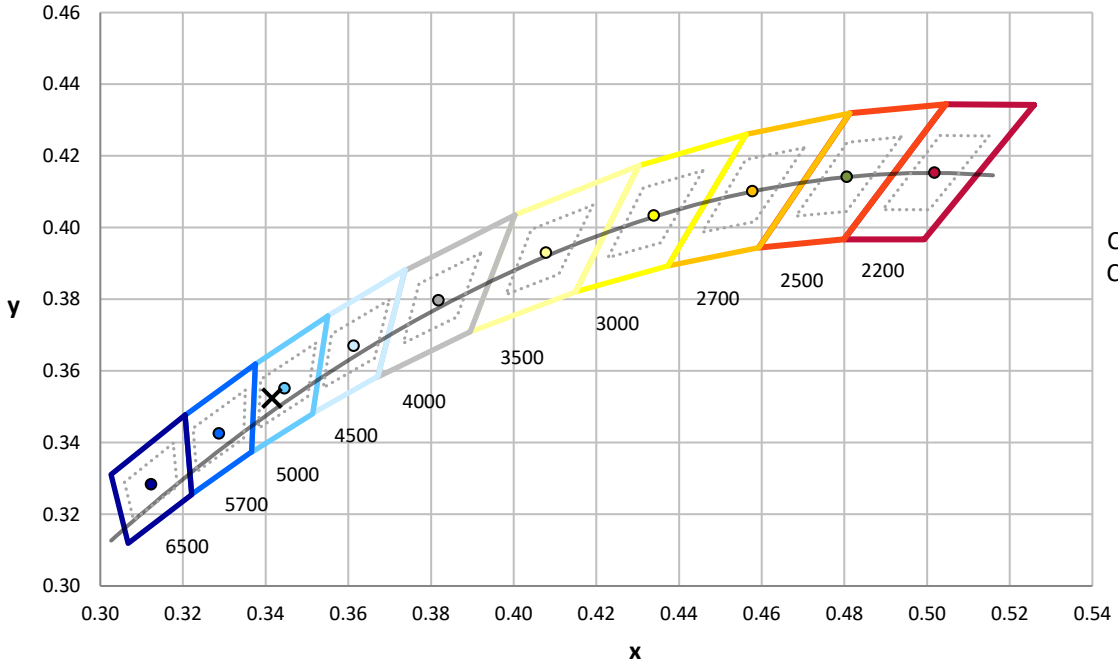
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-10

CIE 1931 Chromaticity Diagram



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

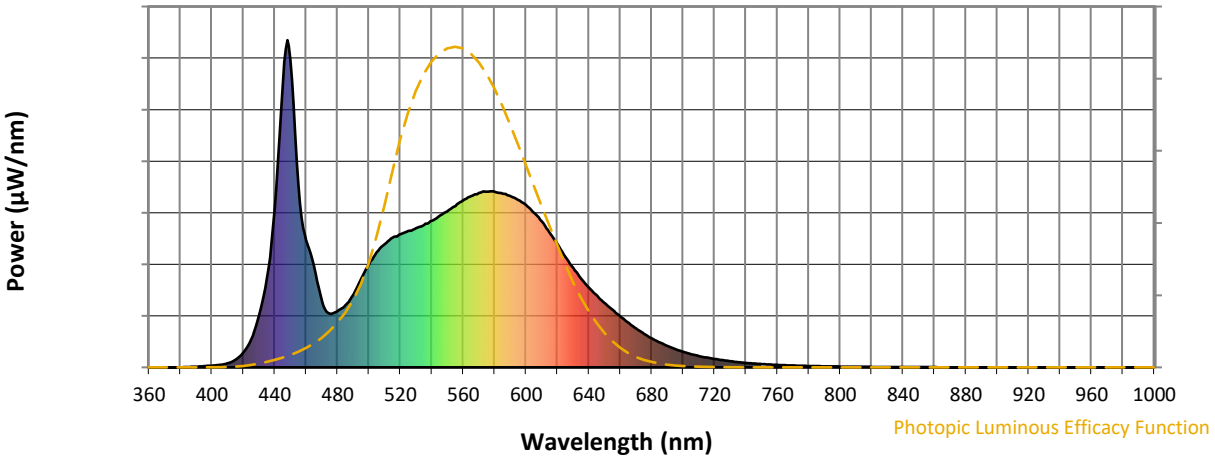


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

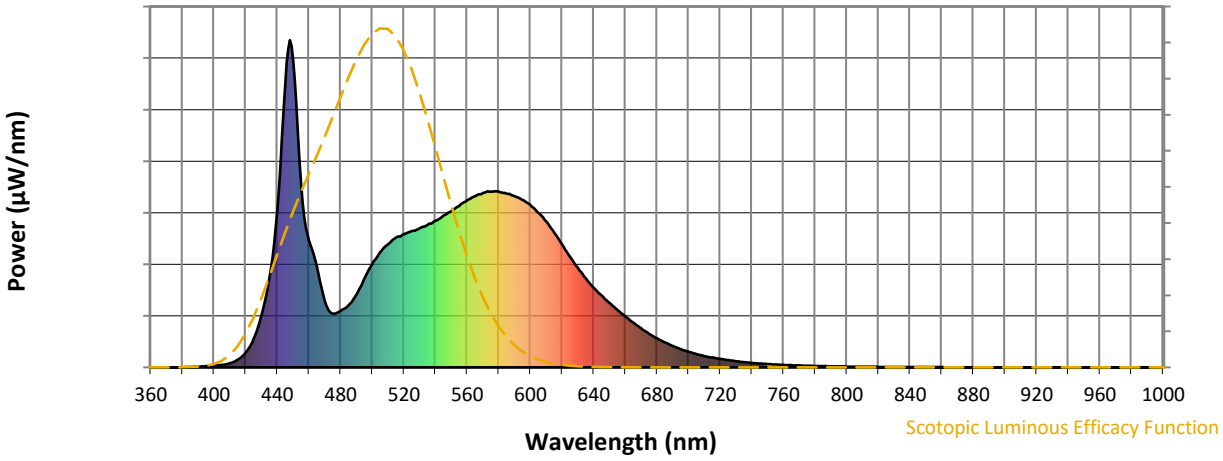


Photopic Lumens: NR

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Scotopic Flux vs. Wavelength

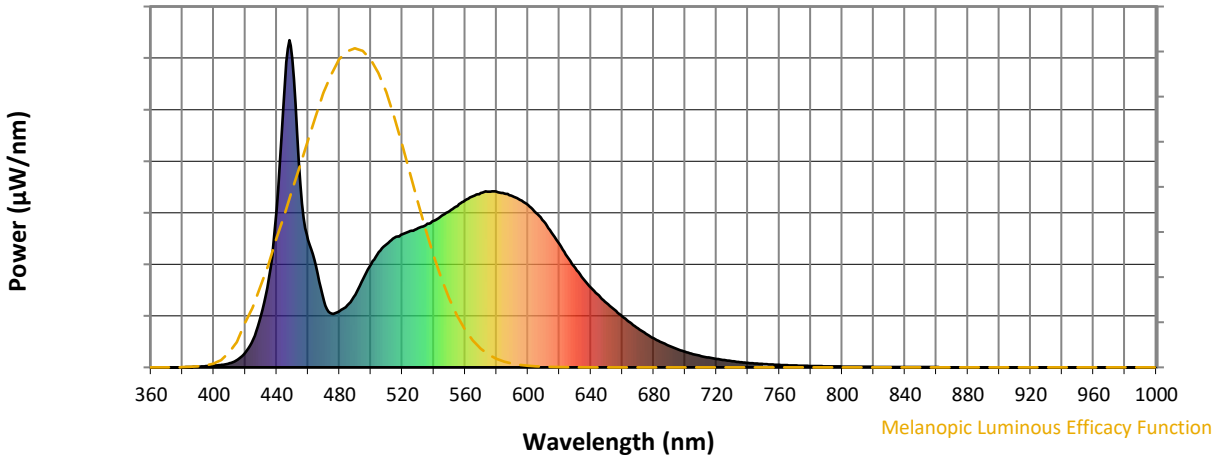


Scotopic Lumens: NR **S/P: 1.92**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.05**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

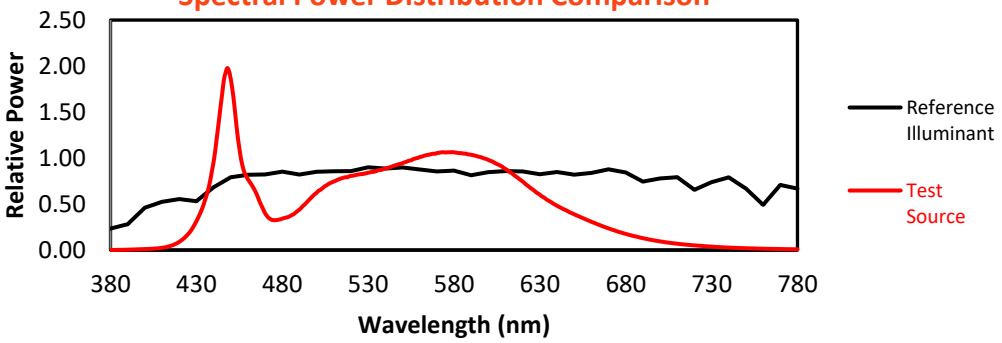
REPORT NUMBER: SP1-2501-332-10

TM-30-18

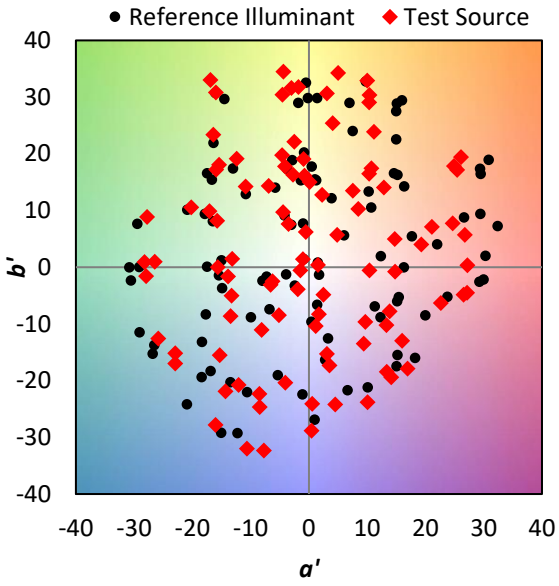
Summary

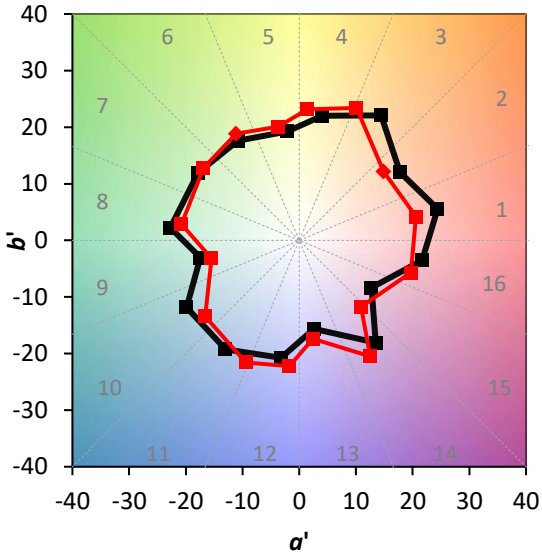
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

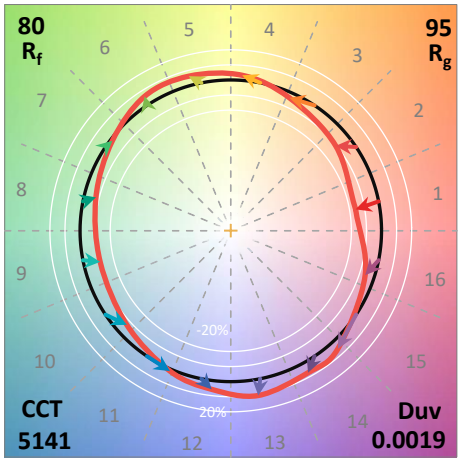
Spectral Power Distribution Comparison

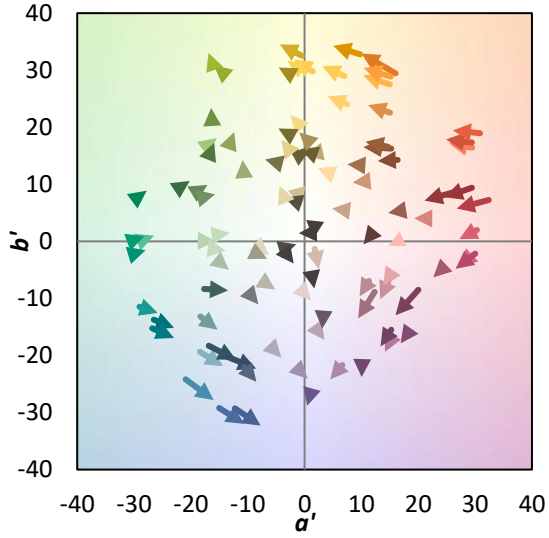


Color Vector Graphics







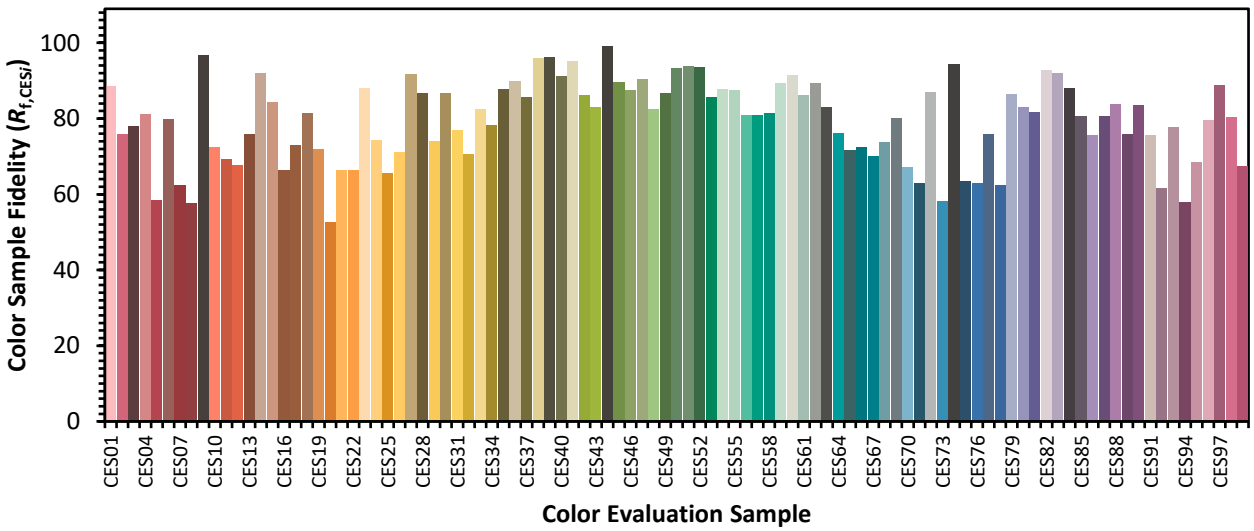


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

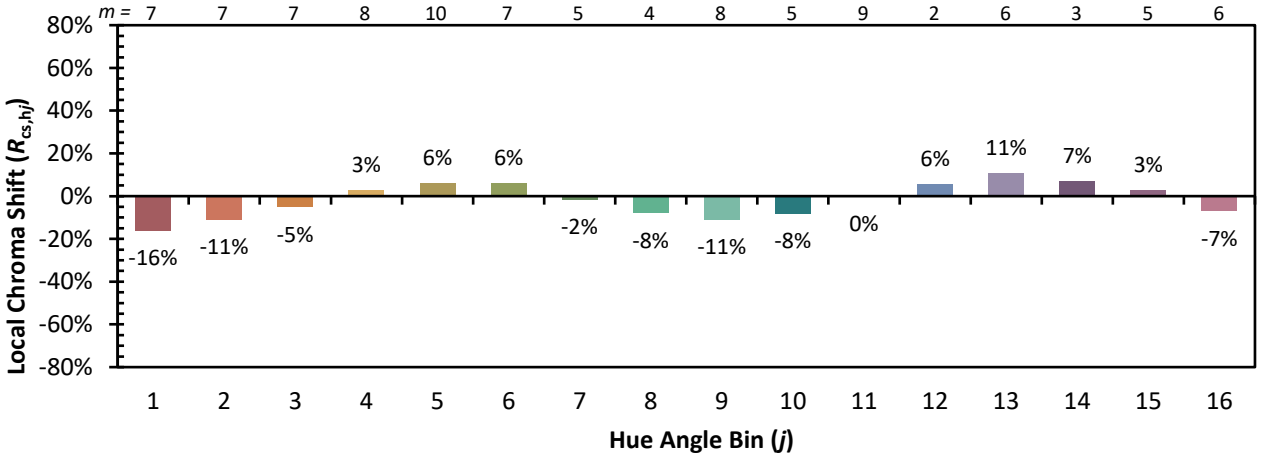
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57 = 81	CES82 = 93
CES08 = 38	CES33 = 83	CES58 = 82	CES83 = 92
CES09 = 29	CES34 = 78	CES59 = 89	CES84 = 88
CES10 = 73	CES35 = 88	CES60 = 91	CES85 = 81
CES11 = 56	CES36 = 90	CES61 = 86	CES86 = 76
CES12 = 61	CES37 = 86	CES62 = 89	CES87 = 81
CES13 = 42	CES38 = 96	CES63 = 83	CES88 = 84
CES14 = 74	CES39 = 96	CES64 = 76	CES89 = 76
CES15 = 70	CES40 = 91	CES65 = 72	CES90 = 83
CES16 = 46	CES41 = 95	CES66 = 72	CES91 = 76
CES17 = 49	CES42 = 86	CES67 = 70	CES92 = 62
CES18 = 55	CES43 = 83	CES68 = 74	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 58
CES20 = 64	CES45 = 90	CES70 = 67	CES95 = 68
CES21 = 85	CES46 = 88	CES71 = 63	CES96 = 79
CES22 = 77	CES47 = 90	CES72 = 87	CES97 = 89
CES23 = 91	CES48 = 83	CES73 = 58	CES98 = 80
CES24 = 90	CES49 = 87	CES74 = 94	CES99 = 67
CES25 = 71	CES50 = 93	CES75 = 64	

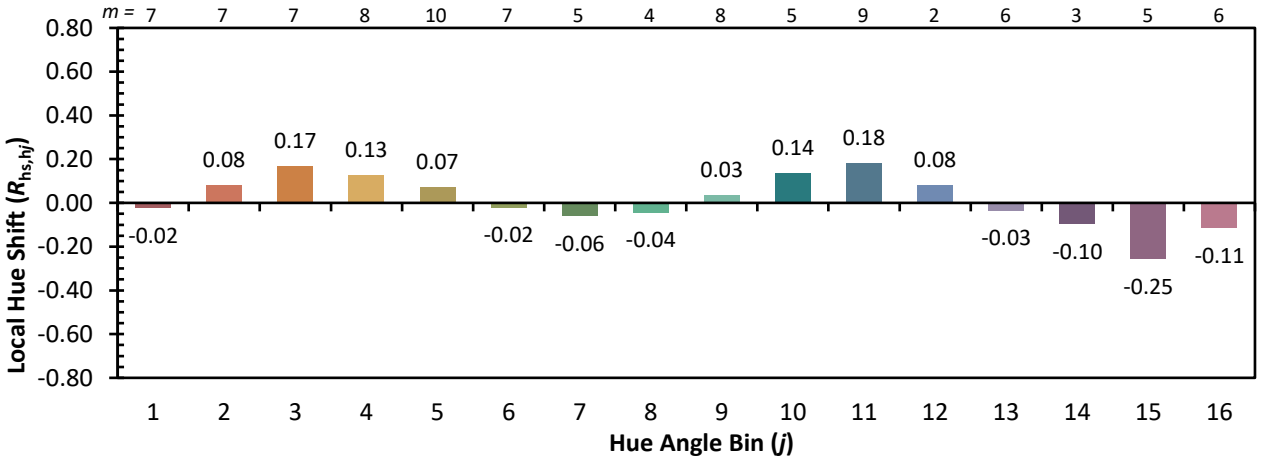


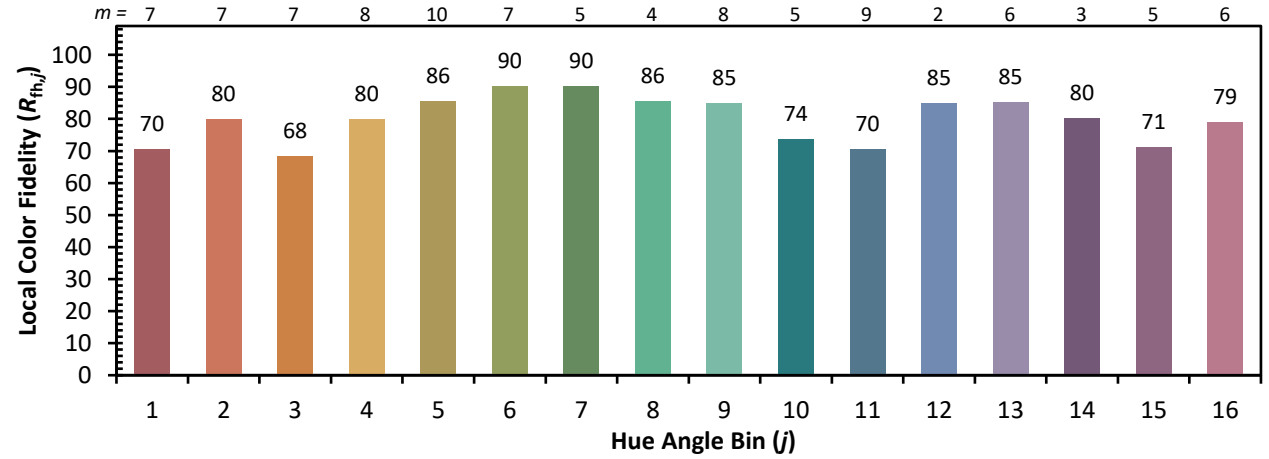
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Color Rendition by Hue-Angle Bin



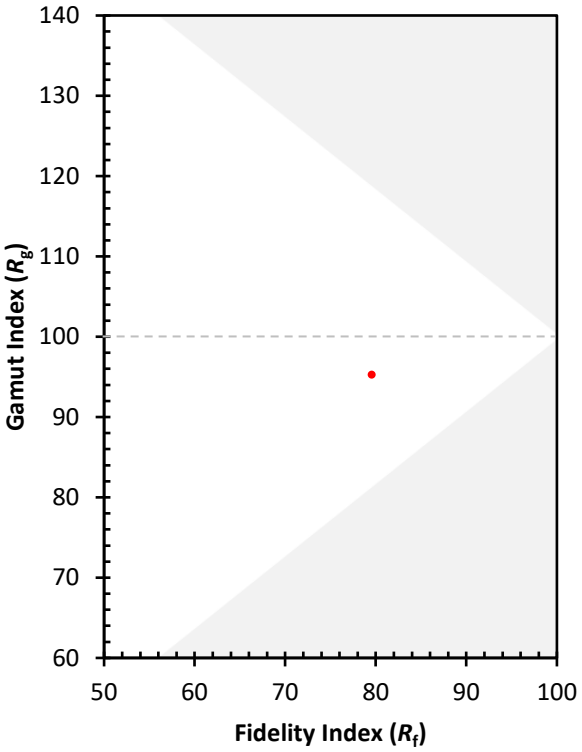


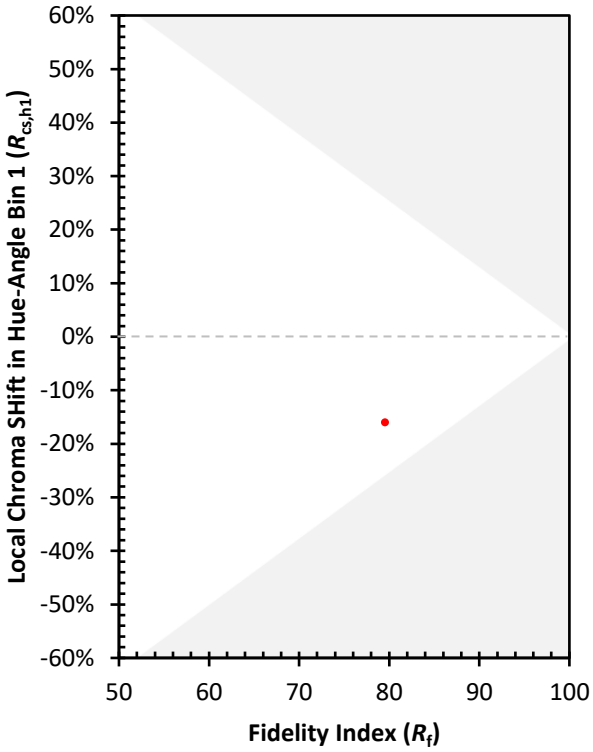


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Measure Comparisons





(END OF REPORT)