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: P1045746

Luminaire Tested: **FFX-CLB-50-727-U-FR-T5-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:	P1045746
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-727-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4907.2 lumens
Efficiency:	N/A
Efficacy:	97.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U3 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

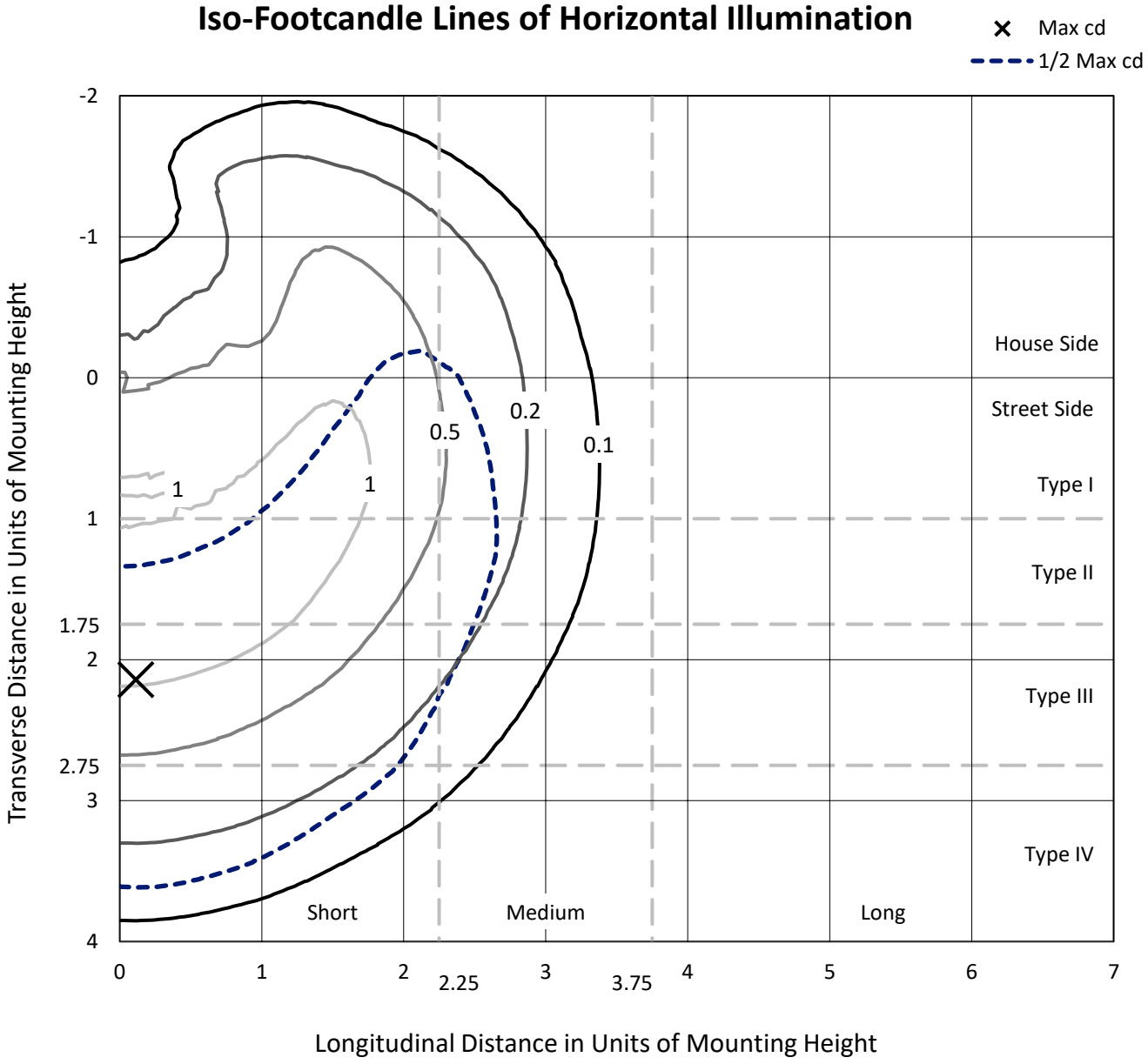


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Iso-Footcandle Lines of Horizontal Illumination



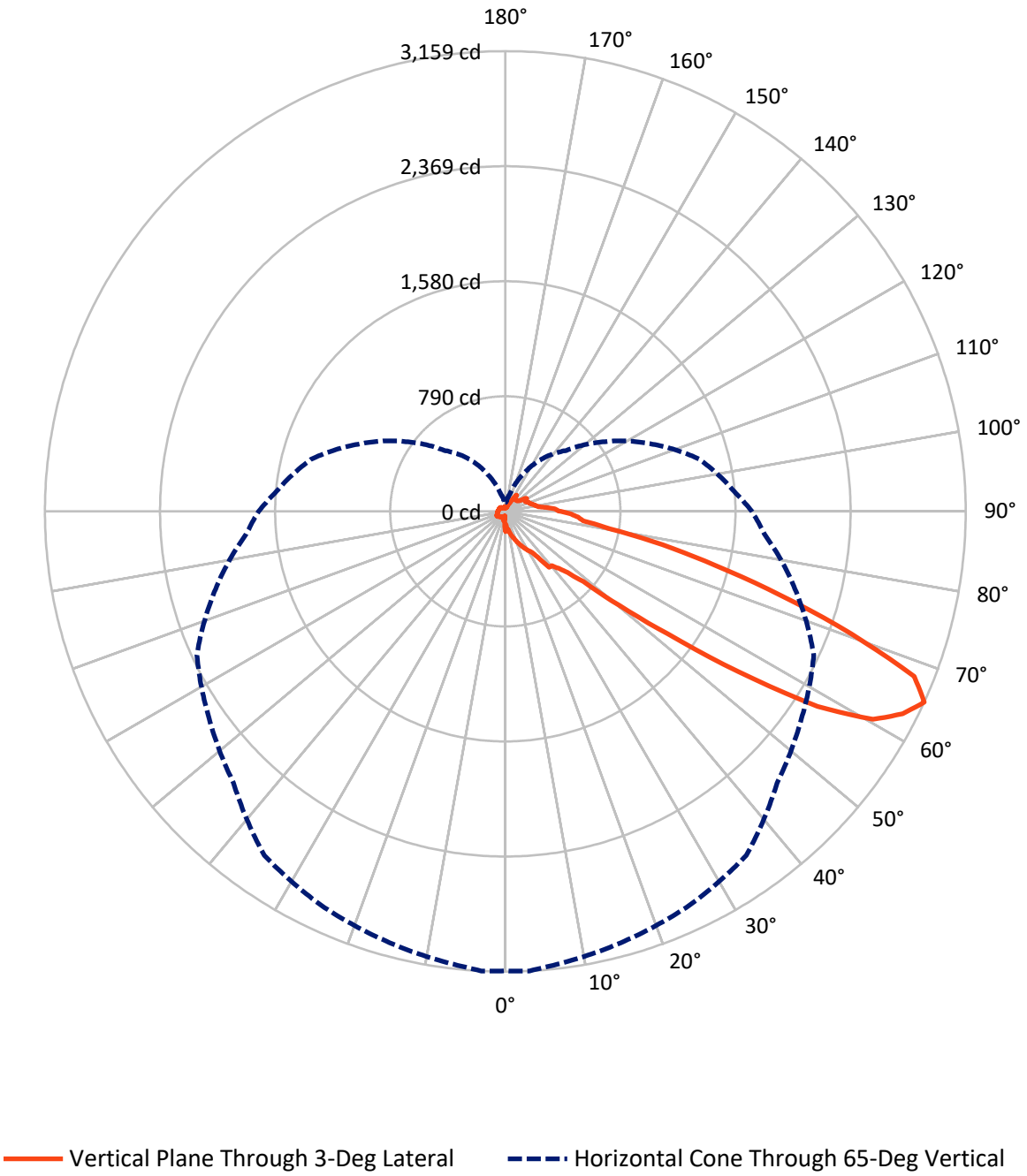
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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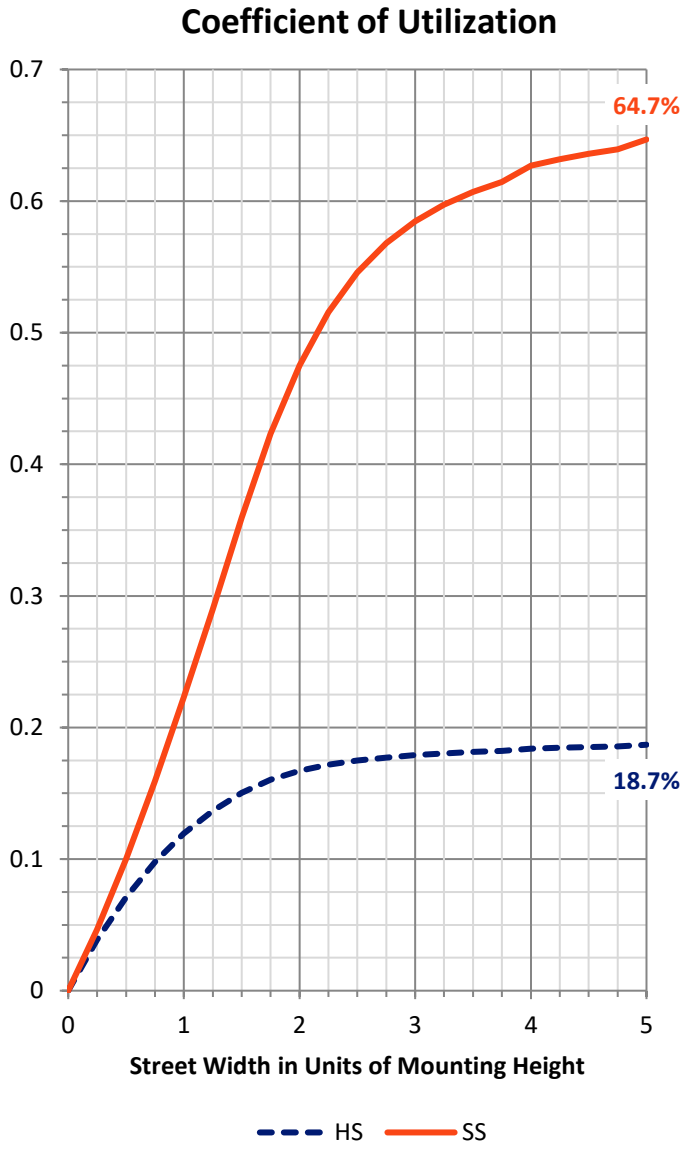
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	949.4	206.4	1155.8
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	3310.6	440.8	3751.4
	% Fixture	67.5	9.0	76.4
Total	Lumens	4259.9	647.2	4907.2
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.2
10°-20°	33.4	0.7
20°-30°	74.6	1.5
30°-40°	150.8	3.1
40°-50°	302.8	6.2
50°-60°	971.9	19.8
60°-70°	1550.2	31.6
70°-80°	843.3	17.2
80°-90°	324.0	6.6
90°-100°	193.2	3.9
100°-110°	128.2	2.6
110°-120°	102.2	2.1
120°-130°	85.1	1.7
130°-140°	58.6	1.2
140°-150°	47.3	1.0
150°-160°	21.1	0.4
160°-170°	8.6	0.2
170°-180°	2.9	0.1
0°-90°	4259.9	86.8
0°-180°	4907.2	100.0



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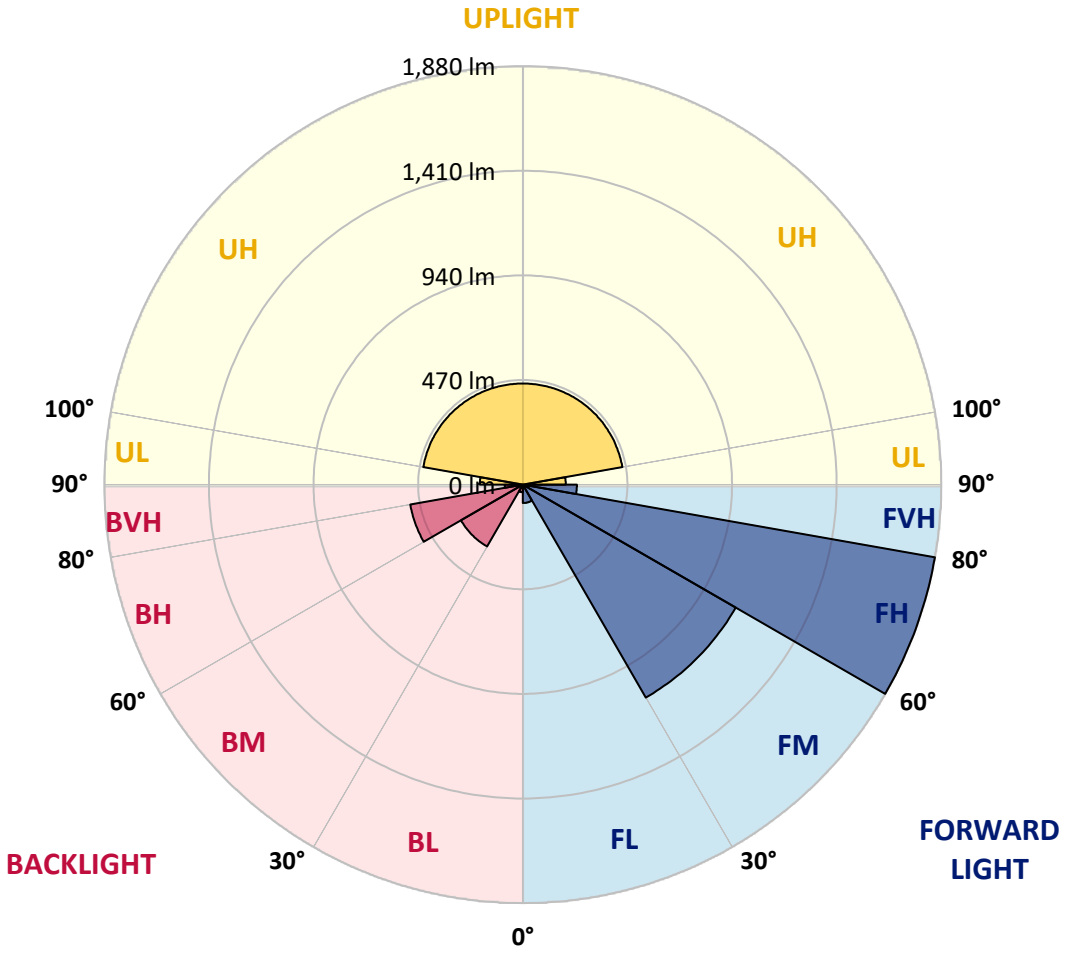
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	82.7	1.7			
FM	(30°-60°)	1104.8	22.5			
FH	(60°-80°)	1880.1	38.3			G2/5000
FVH	(80°-90°)	242.9	5.0			G3/500
BL	(0°-30°)	34.1	0.7	B0/110		
BM	(30°-60°)	320.8	6.5	B1/1000		
BH	(60°-80°)	513.4	10.5	B2/1000		G2/1000
BVH	(80°-90°)	81.1	1.7			G1/100
UL	(90°-100°)	193.2	3.9		U3/500	
UH	(100°-180°)	454.1	9.3		U3/500	

BUG Rating: B2-U3-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7
2.5°	89.6	89.1	90.8	98.7	119.0	125.7	120.1	110.5	108.8	119.0	126.9
5°	122.3	121.2	120.1	112.2	104.3	108.2	119.5	122.3	111.1	90.2	76.7
7.5°	124.0	122.9	123.5	123.5	121.8	114.5	106.0	109.9	119.5	106.6	84.0
10°	138.1	137.6	137.6	137.0	135.3	133.1	132.5	124.0	109.4	98.1	93.6
12.5°	161.2	161.2	160.7	160.1	158.4	154.5	149.4	142.6	138.1	124.6	110.5
15°	179.9	178.2	179.3	177.6	174.8	172.5	166.3	159.0	145.5	136.4	124.0
17.5°	197.9	197.9	198.5	195.6	192.3	190.6	183.8	174.2	161.2	145.5	133.6
20°	220.4	218.8	218.8	215.9	212.0	206.4	200.1	191.7	181.0	159.6	143.8
22.5°	241.9	242.4	242.4	237.9	231.7	226.6	218.2	208.0	197.9	175.9	155.6
25°	266.1	265.6	265.0	264.4	258.2	249.2	238.5	227.8	220.4	199.0	170.8
27.5°	288.7	287.5	287.0	289.8	284.2	275.1	259.3	246.4	238.5	216.5	184.9
30°	313.5	312.9	312.9	314.0	311.8	297.7	280.8	265.6	254.3	232.3	198.5
32.5°	335.5	334.3	334.9	339.4	338.8	320.8	305.6	287.0	272.9	255.4	218.2
35°	389.6	387.3	390.7	397.5	402.6	383.4	362.5	333.8	312.3	294.3	256.0
37.5°	487.1	487.7	488.8	479.8	460.6	446.5	436.4	413.3	386.8	356.3	311.2
40°	491.1	490.5	493.3	506.9	514.8	490.5	466.8	439.8	433.0	407.1	349.6
42.5°	536.7	533.4	536.2	549.1	559.9	545.2	524.3	478.7	453.9	430.7	383.4
45°	602.1	598.2	603.3	605.5	603.3	587.5	590.9	553.7	530.5	483.7	417.8
47.5°	701.9	720.0	722.8	723.4	745.9	724.5	711.0	675.4	623.0	567.2	492.2
50°	985.5	1014.8	1004.7	995.1	996.8	980.5	961.8	912.8	842.3	748.2	641.0
52.5°	1406.7	1395.4	1397.1	1403.3	1419.1	1346.4	1314.8	1240.9	1127.0	1014.3	859.8
55°	1922.0	1941.2	1940.0	1960.3	1957.5	1879.2	1779.4	1655.3	1489.6	1324.4	1141.7
57.5°	2559.1	2525.3	2502.7	2465.5	2433.4	2326.8	2260.8	2126.7	1907.3	1659.3	1424.7
60°	2916.5	2897.9	2892.3	2841.0	2797.0	2666.2	2530.3	2384.9	2213.5	1920.3	1654.2
62.5°	3050.7	3059.8	3051.9	3018.6	2989.3	2874.8	2646.5	2488.1	2334.7	2052.8	1772.6
65°	3153.9	3159.0	3140.9	3065.4	2985.3	2882.7	2636.9	2480.7	2335.3	2057.9	1783.9
67.5°	3027.6	3026.5	3012.4	2903.6	2768.3	2666.8	2443.5	2275.5	2152.0	1920.3	1655.9
70°	2514.0	2517.4	2520.2	2440.1	2291.9	2216.3	1990.2	1845.9	1739.3	1539.2	1349.2
72.5°	1968.2	1978.4	1982.9	1920.3	1810.4	1732.6	1581.5	1473.2	1374.0	1215.0	1065.6
75°	1480.5	1490.7	1487.9	1449.0	1371.7	1350.3	1277.0	1184.5	1101.7	978.2	851.9
77.5°	1110.7	1102.2	1100.0	1062.2	986.1	991.7	970.9	917.9	853.6	780.9	692.9
80°	735.8	728.4	713.8	726.7	720.5	702.5	668.1	641.0	615.7	572.3	524.3
82.5°	541.2	539.0	536.2	527.7	522.1	517.6	502.3	458.9	428.5	403.7	374.9
85°	506.3	499.5	500.7	486.0	468.5	452.7	440.9	422.3	398.6	359.7	318.0
87.5°	442.0	442.0	438.6	428.5	411.0	407.1	398.6	385.6	371.5	341.7	304.5
90°	367.6	365.3	365.3	364.8	360.8	358.0	341.7	329.8	323.6	293.7	267.8
92.5°	339.4	338.3	336.0	333.2	321.9	319.7	303.3	288.1	274.6	256.0	235.7
95°	275.7	278.0	272.9	272.3	266.7	263.3	250.3	243.0	234.0	218.8	200.1
97.5°	232.9	229.5	230.0	225.0	219.3	217.1	209.2	198.5	190.0	178.2	164.6
100°	213.7	213.1	212.0	208.0	200.1	195.1	186.6	176.5	168.0	157.3	146.0
102.5°	201.3	200.7	200.1	196.8	187.7	184.9	177.0	169.1	161.8	152.2	137.6
105°	188.9	188.3	187.2	183.2	177.6	174.8	167.4	162.9	155.6	147.2	133.1
107.5°	177.6	177.6	177.0	172.5	169.1	166.9	159.6	155.6	147.7	140.4	126.9
110°	172.0	172.0	171.4	168.0	161.2	157.9	151.1	146.0	138.7	131.4	120.7

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	165.8	*166.3*	166.3	167.4	151.1	144.9	139.3	135.3	129.1	122.3	113.3
115°	151.7	*152.2*	151.7	157.3	151.7	143.2	139.8	133.1	125.2	114.5	104.9
117.5°	152.8	*152.8*	153.9	156.7	153.9	146.0	138.7	130.2	123.5	112.8	104.3
120°	173.1	*172.0*	172.0	166.3	165.2	157.9	152.8	143.8	132.5	121.8	109.9
122.5°	166.3	*165.8*	166.3	157.3	156.7	155.0	153.4	151.7	137.0	130.8	115.6
125°	133.1	*131.9*	131.4	128.0	133.6	129.7	128.5	132.5	122.9	117.3	108.8
127.5°	119.0	*117.8*	117.3	116.1	119.5	112.8	111.6	112.8	105.4	98.7	93.6
130°	113.9	*112.2*	112.2	116.1	121.2	115.6	109.4	104.9	102.0	97.5	89.1
132.5°	107.7	*107.7*	108.2	113.3	122.3	116.1	104.9	95.8	94.7	95.3	91.3
135°	106.0	*105.4*	106.0	104.3	103.7	100.4	95.3	88.0	86.3	90.8	86.3
137.5°	108.8	*108.2*	107.7	103.2	98.1	95.3	94.2	89.6	85.1	82.3	77.8
140°	107.7	*107.7*	107.1	106.0	102.6	97.0	95.8	91.3	86.8	81.8	76.1
142.5°	109.4	*111.1*	112.2	113.3	112.2	106.0	99.8	92.5	87.4	84.6	78.4
145°	134.7	*134.7*	134.7	132.5	128.5	123.5	119.0	113.9	109.9	100.9	92.5
147.5°	111.6	*111.6*	111.1	111.6	111.6	109.4	108.8	107.1	107.7	103.2	94.7
150°	77.2	*78.9*	78.9	81.8	82.9	81.8	81.8	82.9	81.2	80.6	76.1
152.5°	62.6	*62.0*	60.9	62.0	62.0	62.6	62.6	61.5	60.9	60.9	58.1
155°	55.3	*55.3*	55.3	54.7	53.6	54.1	54.7	54.7	53.0	51.9	49.6
157.5°	44.0	*43.4*	43.4	44.5	44.5	44.5	44.5	44.5	44.5	45.1	45.7
160°	37.2	*36.1*	36.6	36.6	37.2	37.8	37.2	37.8	37.8	38.3	37.8
162.5°	30.4	*29.9*	29.9	30.4	31.0	31.6	32.1	32.1	32.7	33.8	34.4
165°	27.1	*27.1*	27.1	27.6	27.6	28.2	28.8	29.3	30.4	32.1	32.7
167.5°	25.4	*25.4*	25.4	25.4	25.9	26.5	27.6	29.3	30.4	32.1	32.1
170°	24.8	*24.8*	25.4	25.4	25.4	25.9	28.2	29.9	30.4	31.0	31.0
172.5°	25.9	*25.9*	25.9	25.9	25.9	27.1	29.9	30.4	30.4	30.4	31.0
175°	27.1	*27.1*	26.5	26.5	27.1	27.6	28.2	31.0	32.1	32.7	33.8
177.5°	25.4	*25.4*	25.4	25.9	25.9	26.5	27.1	28.2	28.2	29.3	31.0
180°	28.2	*28.2*	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7
2.5°	132.5	142.1	130.2	117.8	108.8	113.9	119.5	115.0	109.9	110.5	100.9
5°	79.5	81.8	82.9	72.2	59.8	66.5	81.2	76.1	58.6	32.7	28.2
7.5°	76.7	73.3	72.2	80.1	72.7	48.5	37.8	34.4	45.7	54.7	57.5
10°	90.8	86.8	78.4	64.3	56.9	53.6	52.4	50.2	43.4	33.8	32.1
12.5°	104.3	99.8	91.9	85.1	75.5	63.1	55.3	53.0	56.9	63.7	63.7
15°	117.8	111.6	101.5	92.5	85.1	71.6	61.5	52.4	51.3	53.0	53.0
17.5°	127.4	120.7	108.8	96.4	83.4	70.5	58.6	49.6	45.7	44.5	44.5
20°	137.0	130.8	116.7	103.2	87.4	72.2	58.6	49.1	44.5	42.8	42.3
22.5°	149.4	141.5	125.7	111.1	91.9	73.3	58.1	49.6	44.5	41.7	41.2
25°	163.5	154.5	136.4	119.0	96.4	74.4	58.6	50.2	45.1	41.7	41.2
27.5°	174.8	165.2	147.7	128.0	102.0	77.2	60.9	51.3	45.7	42.3	41.7
30°	187.7	177.6	157.9	137.6	108.8	81.8	65.4	54.7	47.9	43.4	43.4
32.5°	207.5	193.9	172.0	146.6	115.6	86.8	70.5	58.6	50.2	46.8	46.8
35°	239.6	226.1	196.8	164.1	122.9	91.9	74.4	62.6	53.0	48.5	48.5
37.5°	290.9	270.6	237.9	192.8	134.7	95.8	78.9	65.4	54.7	48.5	47.4
40°	320.8	298.3	257.1	214.2	149.4	100.9	82.3	67.7	55.8	49.1	48.5
42.5°	354.1	328.1	275.1	219.9	159.0	112.8	87.4	69.9	56.9	50.7	49.6
45°	389.0	364.2	316.3	249.8	181.5	129.1	95.8	74.4	60.3	53.0	51.9
47.5°	452.7	422.3	360.3	292.0	214.8	155.0	114.5	81.8	64.3	55.3	54.1
50°	595.9	567.7	481.5	379.4	267.8	192.3	143.2	97.0	70.5	56.9	55.3
52.5°	789.9	739.7	642.2	514.2	373.8	269.5	191.1	130.8	80.1	58.6	55.8
55°	1071.8	1016.0	871.6	704.8	511.9	391.3	289.2	196.8	113.9	60.3	55.3
57.5°	1352.0	1284.3	1163.1	934.8	687.8	499.0	386.8	288.1	165.8	67.7	56.9
60°	1552.7	1470.4	1320.4	1111.3	834.4	586.9	436.9	314.0	184.4	69.3	58.6
62.5°	1671.1	1567.9	1379.6	1129.9	869.4	623.6	457.2	296.6	158.4	67.7	60.9
65°	*1692.5*	*1575.3*	*1379.6*	*1097.7*	*833.3*	*591.4*	*442.0*	*274.0*	*125.2*	*64.8*	*62.6*
67.5°	1569.6	1460.2	1295.1	1008.1	739.1	508.0	380.6	225.5	95.3	62.6	62.0
70°	1288.3	1206.0	1071.2	823.7	599.9	413.3	302.8	173.7	77.2	59.8	58.6
72.5°	1005.3	929.1	828.2	646.1	464.0	327.6	231.2	135.9	68.8	57.5	56.9
75°	791.0	734.1	650.6	510.2	349.0	248.1	175.3	102.6	62.0	56.4	55.3
77.5°	647.2	610.0	523.8	389.6	260.5	184.4	130.8	81.8	59.2	55.3	54.7
80°	503.5	472.5	418.3	291.5	186.6	138.7	103.2	72.2	57.5	54.7	54.1
82.5°	359.1	348.4	302.8	226.6	155.6	119.0	93.0	69.3	56.9	54.1	53.6
85°	299.9	284.7	250.9	196.8	143.2	113.3	89.1	68.2	56.9	54.1	53.6
87.5°	289.8	276.3	245.3	187.7	134.7	106.6	85.1	66.0	55.8	53.0	53.0
90°	256.0	242.4	218.8	169.1	124.0	99.2	79.5	62.6	53.6	50.7	50.7
92.5°	226.6	218.8	196.2	155.0	119.0	95.3	76.7	60.9	52.4	50.2	49.6
95°	191.7	184.9	167.4	139.8	111.6	90.8	74.4	59.2	51.3	49.1	49.1
97.5°	159.0	153.4	139.8	118.4	96.4	80.6	67.1	55.8	49.6	47.9	47.9
100°	140.4	135.9	124.0	106.6	89.1	75.5	64.8	55.3	49.1	46.8	46.8
102.5°	133.1	128.5	116.7	100.9	84.6	72.2	63.1	54.1	48.5	46.2	45.7
105°	127.4	122.9	112.2	95.8	80.1	68.8	59.8	53.0	47.4	45.7	45.1
107.5°	121.8	116.7	106.6	90.2	76.1	65.4	57.5	51.3	46.8	45.1	45.1
110°	115.6	111.1	101.5	85.7	73.3	63.1	56.4	50.7	46.8	45.1	45.1

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

Scaled Data Report

REPORT NUMBER: P1045746
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	108.8	104.3	95.3	81.2	70.5	61.5	55.3	50.2	46.8	45.1	45.1
115°	100.9	97.0	88.5	76.7	67.1	59.2	53.6	49.1	45.7	44.5	44.5
117.5°	98.7	94.2	85.7	75.0	66.0	57.5	52.4	47.9	45.1	44.0	44.0
120°	103.7	97.5	88.5	78.4	66.0	56.4	51.3	47.4	44.5	43.4	43.4
122.5°	110.5	105.4	95.3	76.7	63.7	55.3	50.2	46.8	44.0	43.4	43.4
125°	104.3	100.9	91.3	71.0	61.5	54.1	49.6	46.8	44.5	43.4	43.4
127.5°	91.3	88.0	80.6	67.7	59.2	53.0	49.1	46.8	45.1	43.4	43.4
130°	86.3	81.8	75.0	64.8	56.9	51.3	48.5	46.8	45.1	42.8	42.3
132.5°	88.5	84.6	73.9	60.9	53.6	49.1	46.8	45.7	42.3	40.0	39.5
135°	83.4	79.5	68.8	58.1	51.9	48.5	46.2	42.8	39.5	36.6	36.6
137.5°	74.4	69.9	63.7	55.8	51.3	49.6	46.8	42.3	37.8	35.5	35.5
140°	73.9	68.8	63.1	55.3	50.2	45.7	42.3	37.8	34.4	33.3	32.7
142.5°	75.0	71.6	63.7	54.7	47.9	42.3	38.3	35.0	32.7	31.0	31.0
145°	86.8	81.8	71.6	59.8	51.9	45.1	39.5	35.0	31.6	28.8	28.2
147.5°	89.6	84.6	75.5	65.4	55.3	46.8	38.9	33.3	28.8	26.5	25.9
150°	75.0	71.6	66.5	58.6	49.6	41.2	34.4	29.3	26.5	25.4	24.8
152.5°	56.9	55.8	52.4	46.8	40.6	35.0	30.4	27.6	25.9	25.4	24.8
155°	48.5	47.9	44.5	40.0	35.0	31.0	28.2	26.5	25.4	25.4	24.8
157.5°	45.1	44.0	41.2	36.6	32.1	29.9	27.1	25.9	25.4	25.4	25.4
160°	37.8	36.6	34.4	32.7	29.9	28.2	26.5	25.9	25.4	25.4	24.8
162.5°	33.8	32.7	31.6	29.9	29.3	28.8	28.2	27.1	26.5	25.9	25.9
165°	32.1	31.6	29.9	29.3	29.3	29.9	29.9	28.8	27.6	26.5	26.5
167.5°	31.6	31.0	29.9	29.3	30.4	31.0	31.6	30.4	29.3	27.6	27.1
170°	31.6	31.6	31.0	30.4	31.0	31.6	32.1	32.1	31.6	30.4	30.4
172.5°	31.6	32.1	31.6	31.6	31.6	31.6	31.6	32.7	32.7	32.1	32.1
175°	33.8	33.8	32.1	31.6	32.1	32.7	33.3	32.7	32.7	33.3	33.3
177.5°	31.0	32.1	34.4	35.0	36.1	36.1	35.0	34.4	32.7	32.1	32.1
180°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

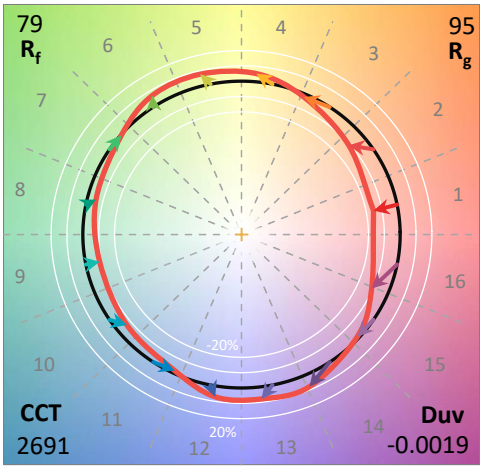
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

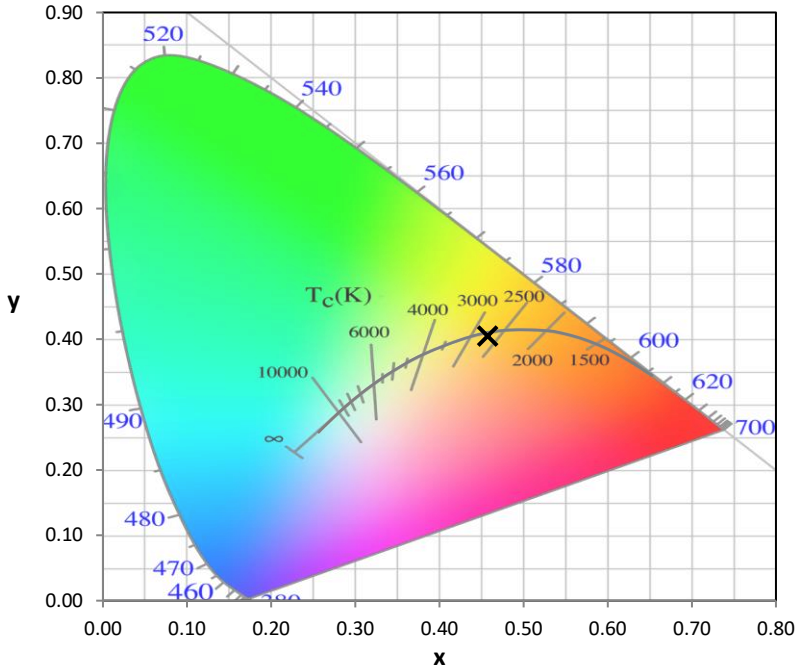
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

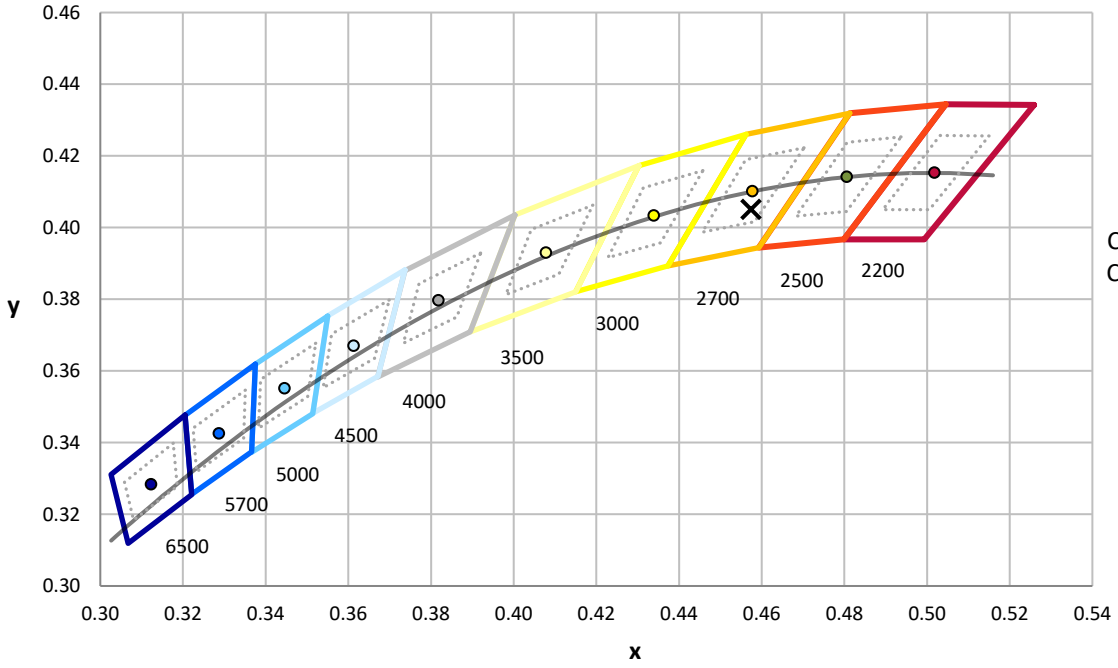
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

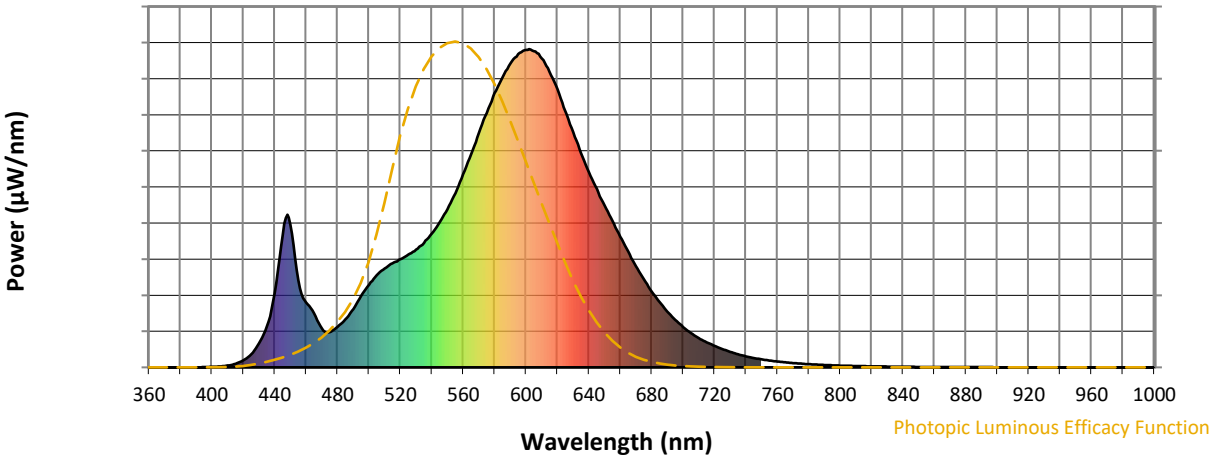


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

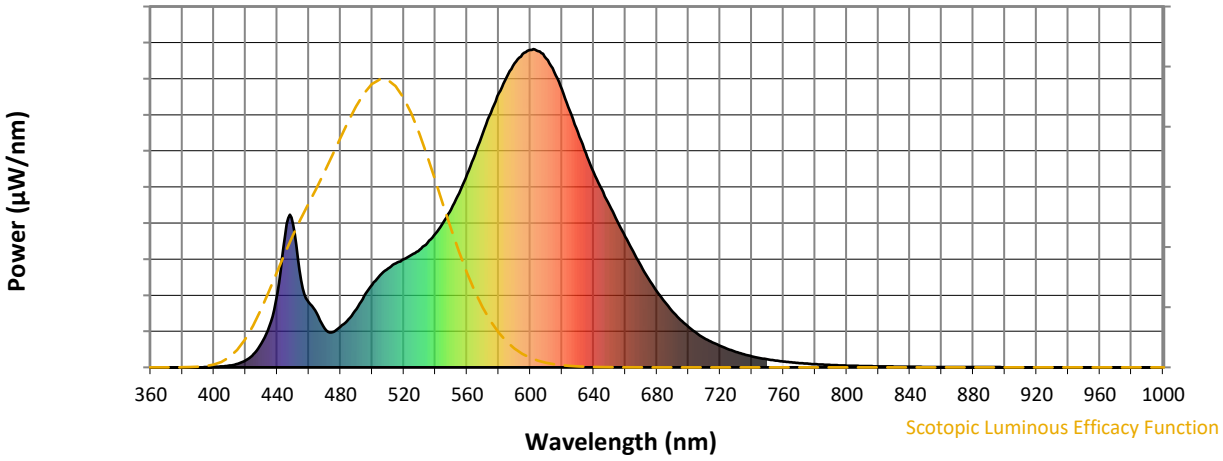


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

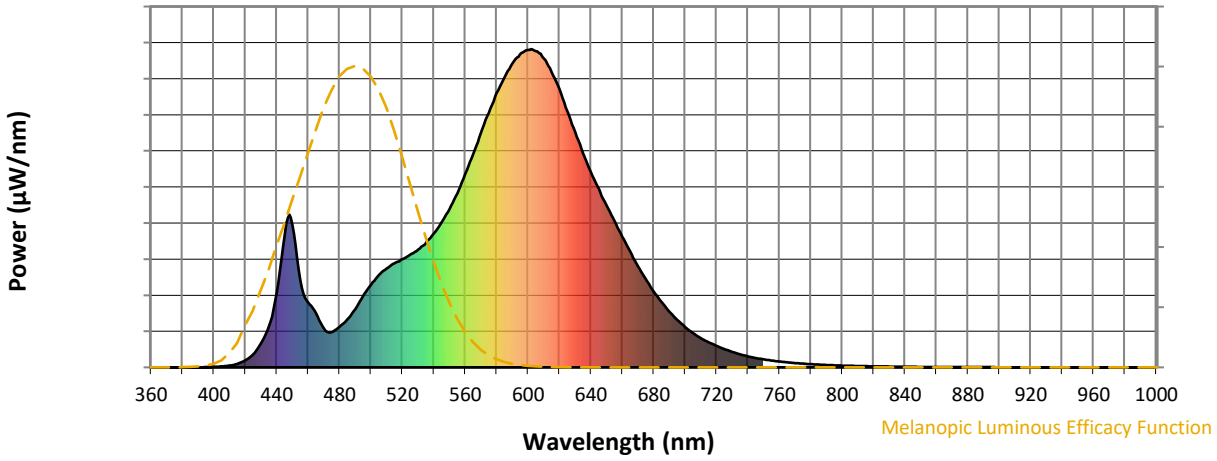


Scotopic Lumens: NR **S/P: 1.18**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

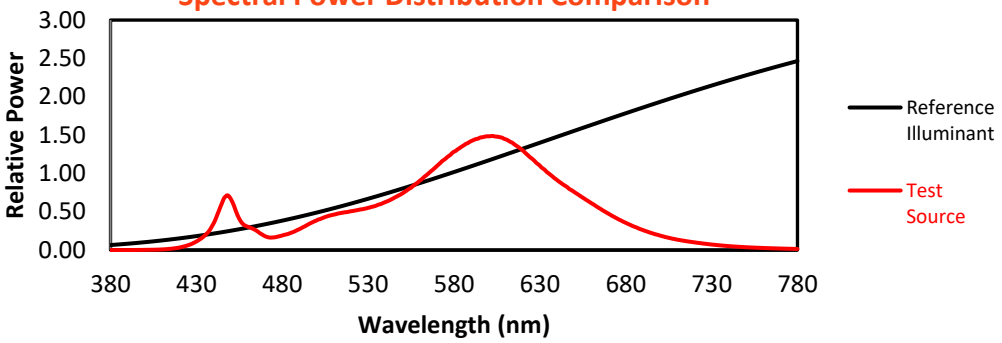
REPORT NUMBER: SP1-2501-332-8

TM-30-18

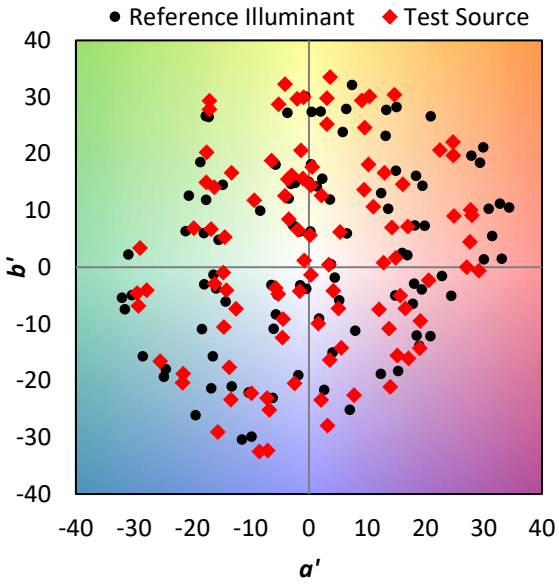
Summary

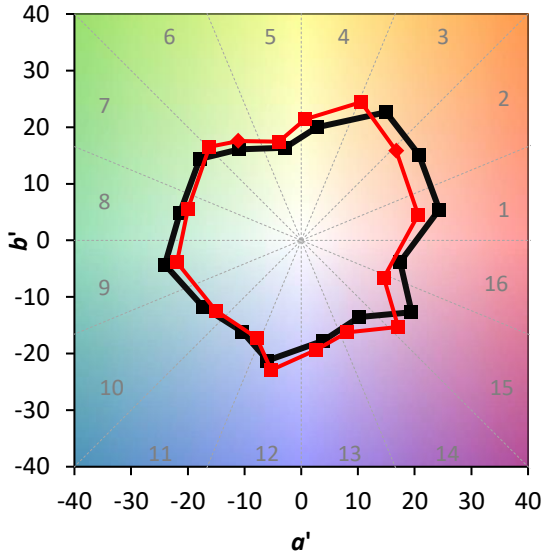
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

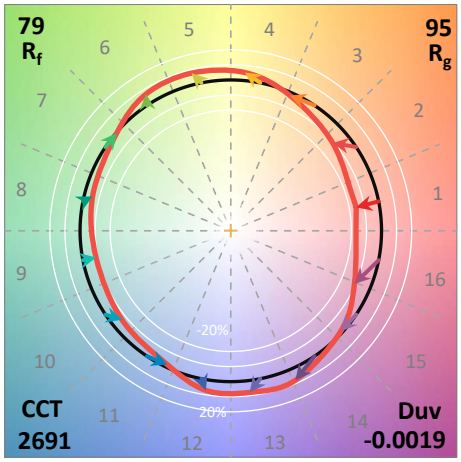
Spectral Power Distribution Comparison

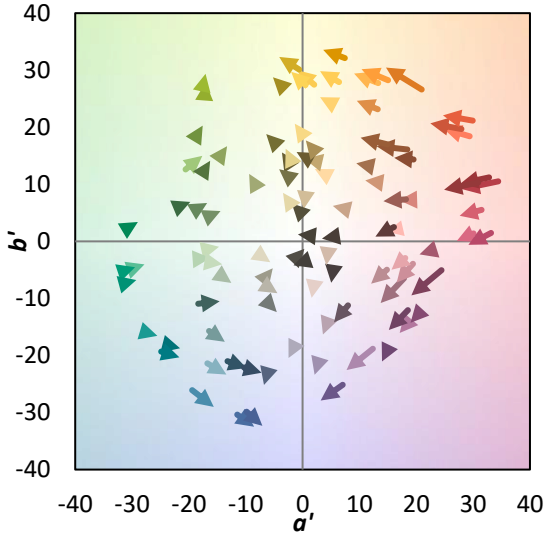


Color Vector Graphics







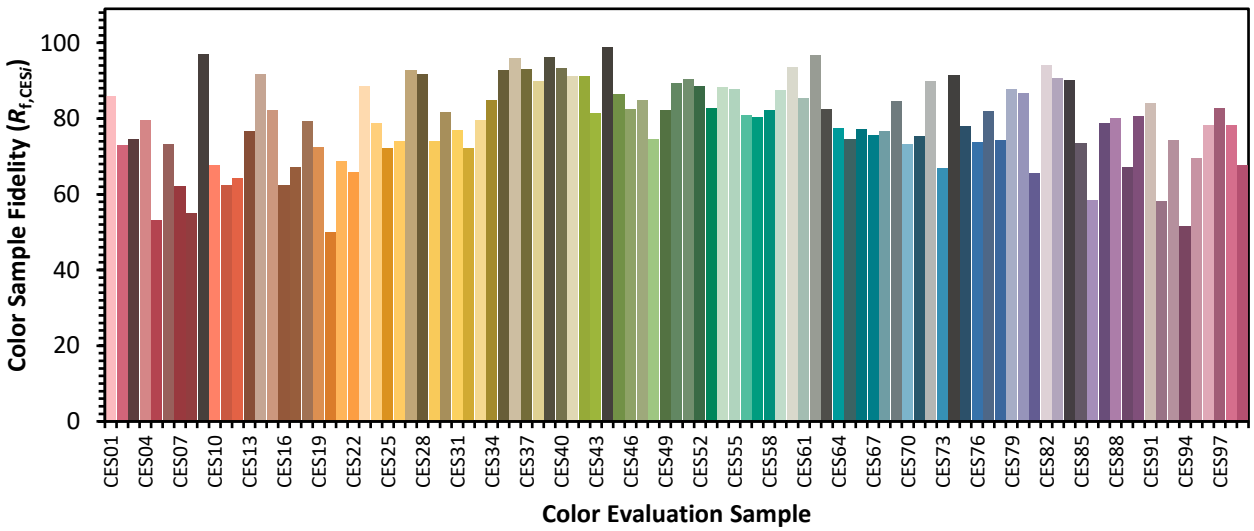


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

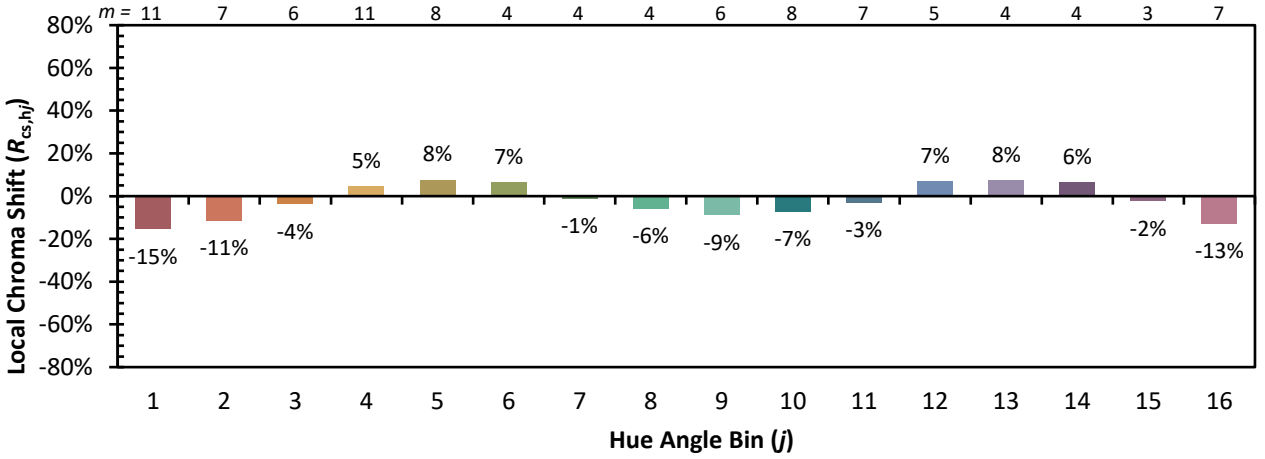
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

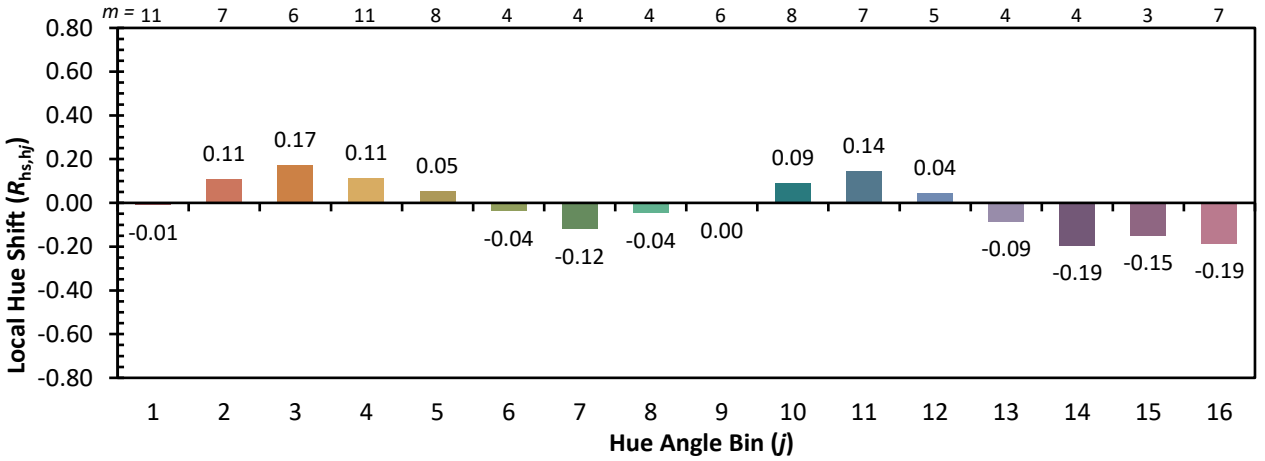


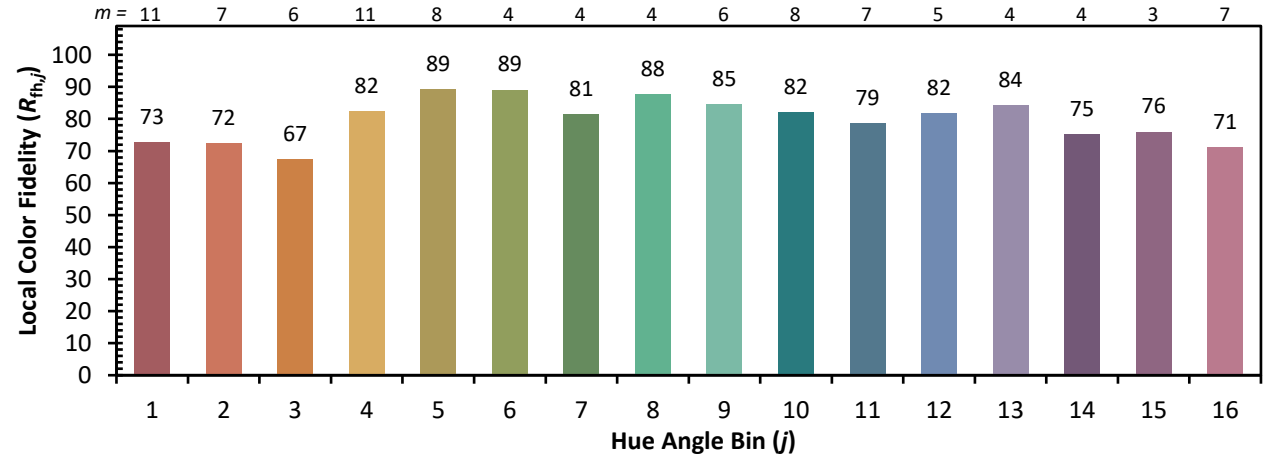
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Color Rendition by Hue-Angle Bin



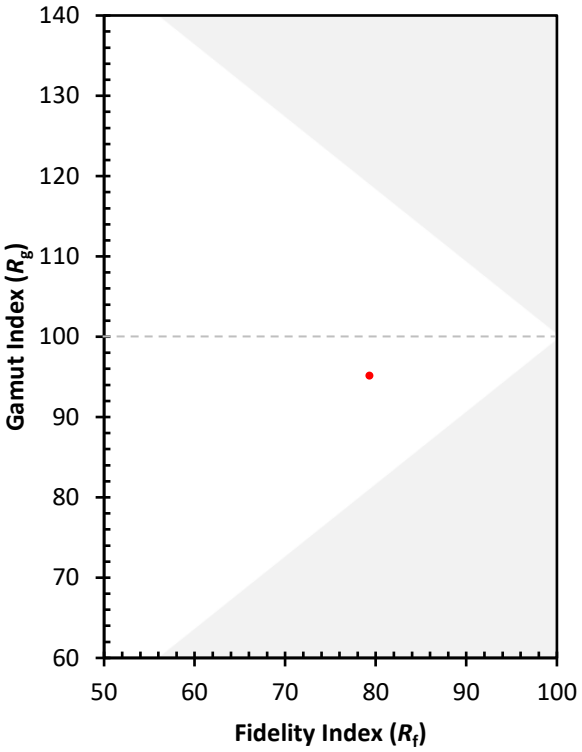


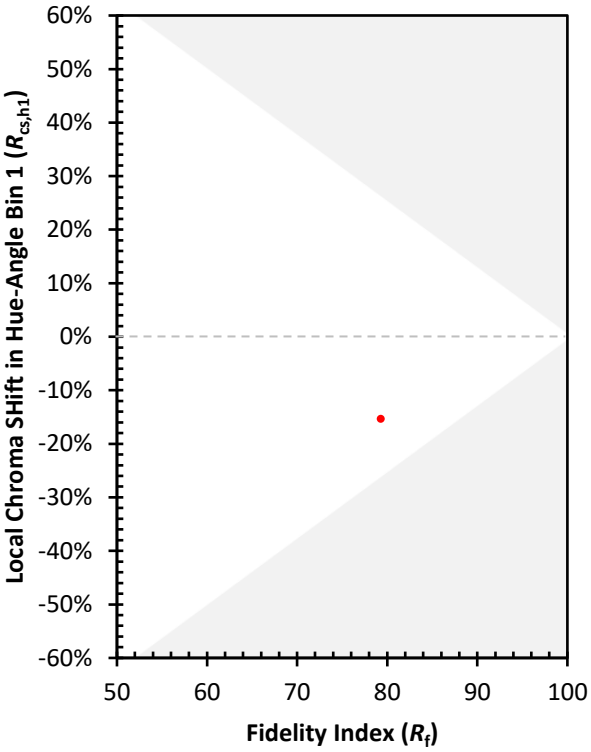


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Measure Comparisons





(END OF REPORT)