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: P1046423

Luminaire Tested: **FFX-CLB-30-727-U-FR-T4-UPLR**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046423
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-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4460.4 lumens
Efficiency:	N/A
Efficacy:	145.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U3 - G2

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

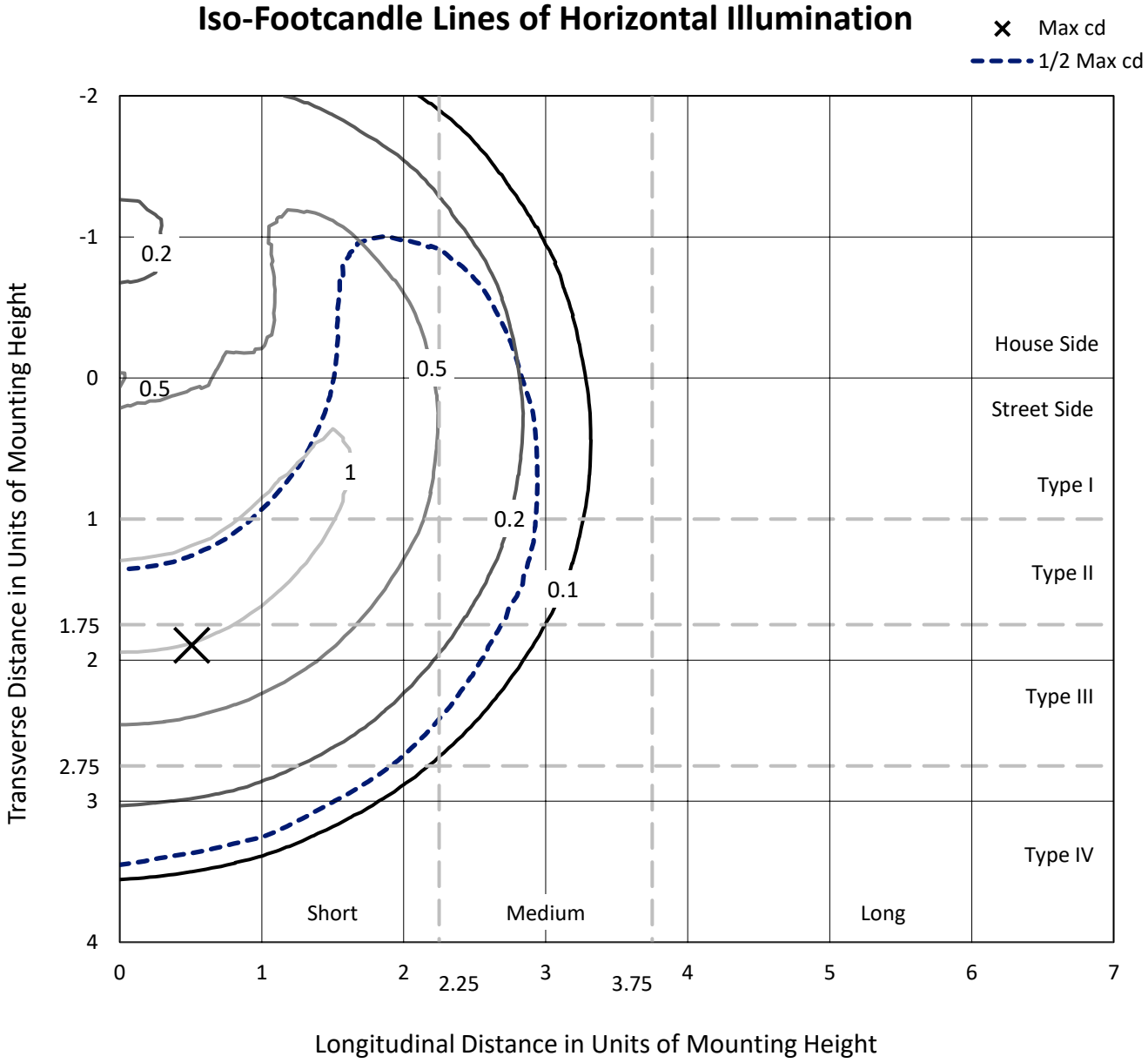


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Iso-Footcandle Lines of Horizontal Illumination



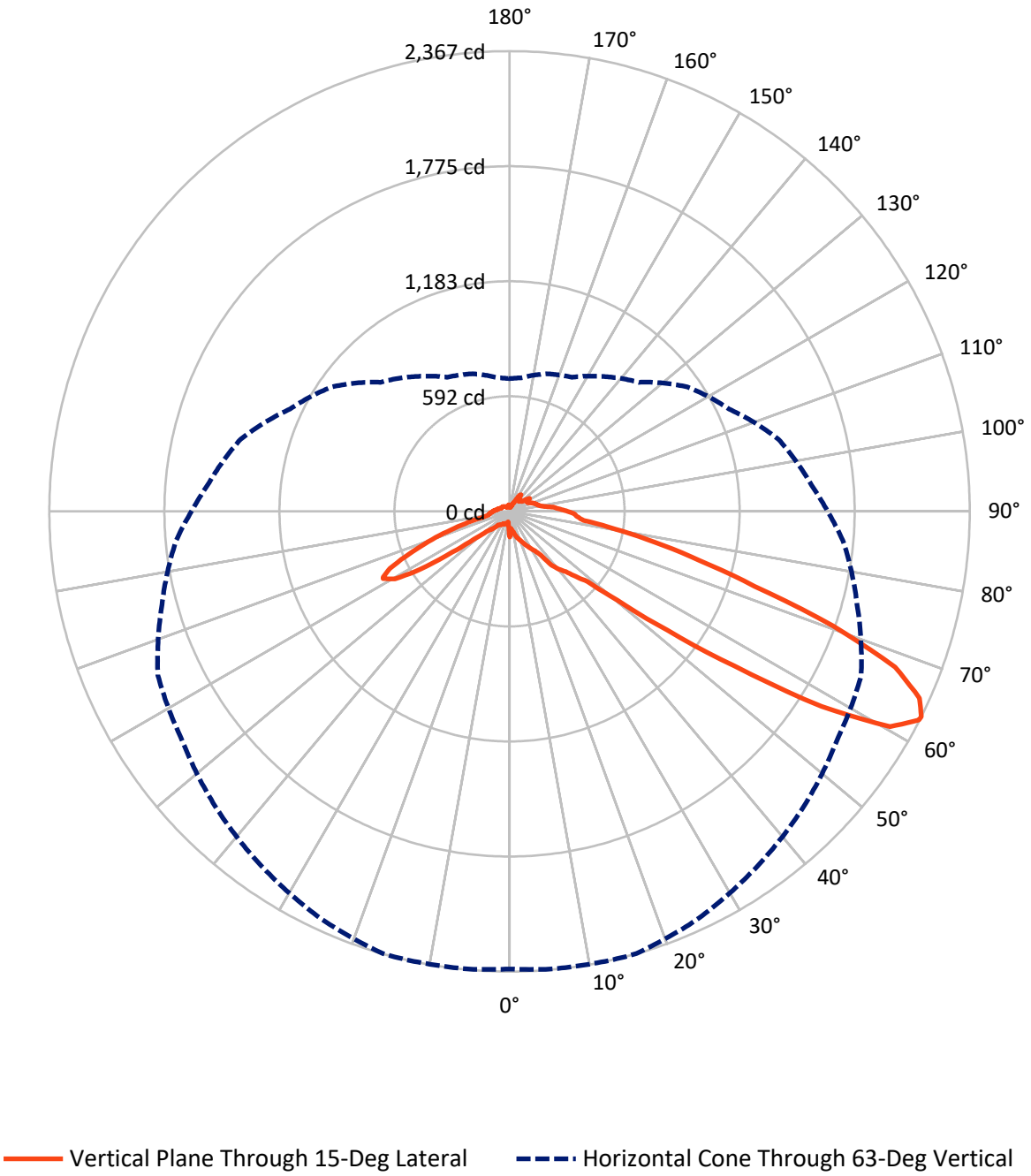
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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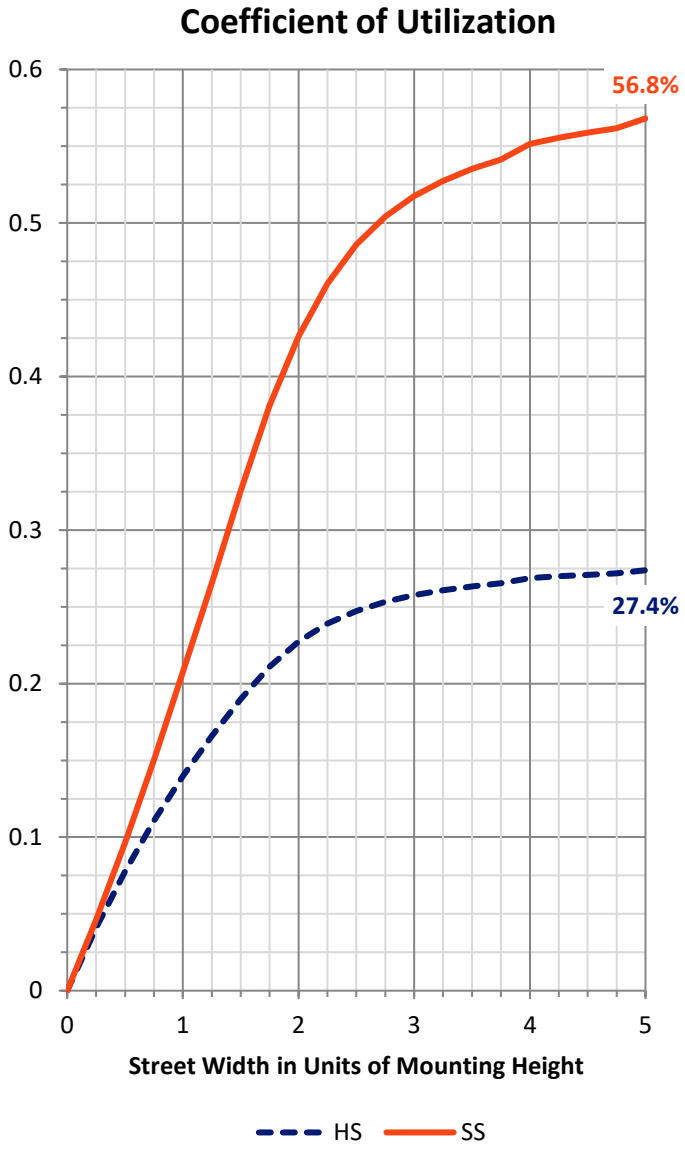
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1261.5	205.5	1467.0
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	2641.3	352.1	2993.4
	% Fixture	59.2	7.9	67.1
Total	Lumens	3902.8	557.6	4460.4
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.2
10°-20°	29.2	0.7
20°-30°	63.3	1.4
30°-40°	130.1	2.9
40°-50°	268.2	6.0
50°-60°	882.4	19.8
60°-70°	1461.0	32.8
70°-80°	766.3	17.2
80°-90°	294.2	6.6
90°-100°	177.7	4.0
100°-110°	112.0	2.5
110°-120°	82.9	1.9
120°-130°	70.6	1.6
130°-140°	46.0	1.0
140°-150°	40.0	0.9
150°-160°	18.3	0.4
160°-170°	7.5	0.2
170°-180°	2.6	0.1
0°-90°	3902.8	87.5
0°-180°	4460.4	100.0



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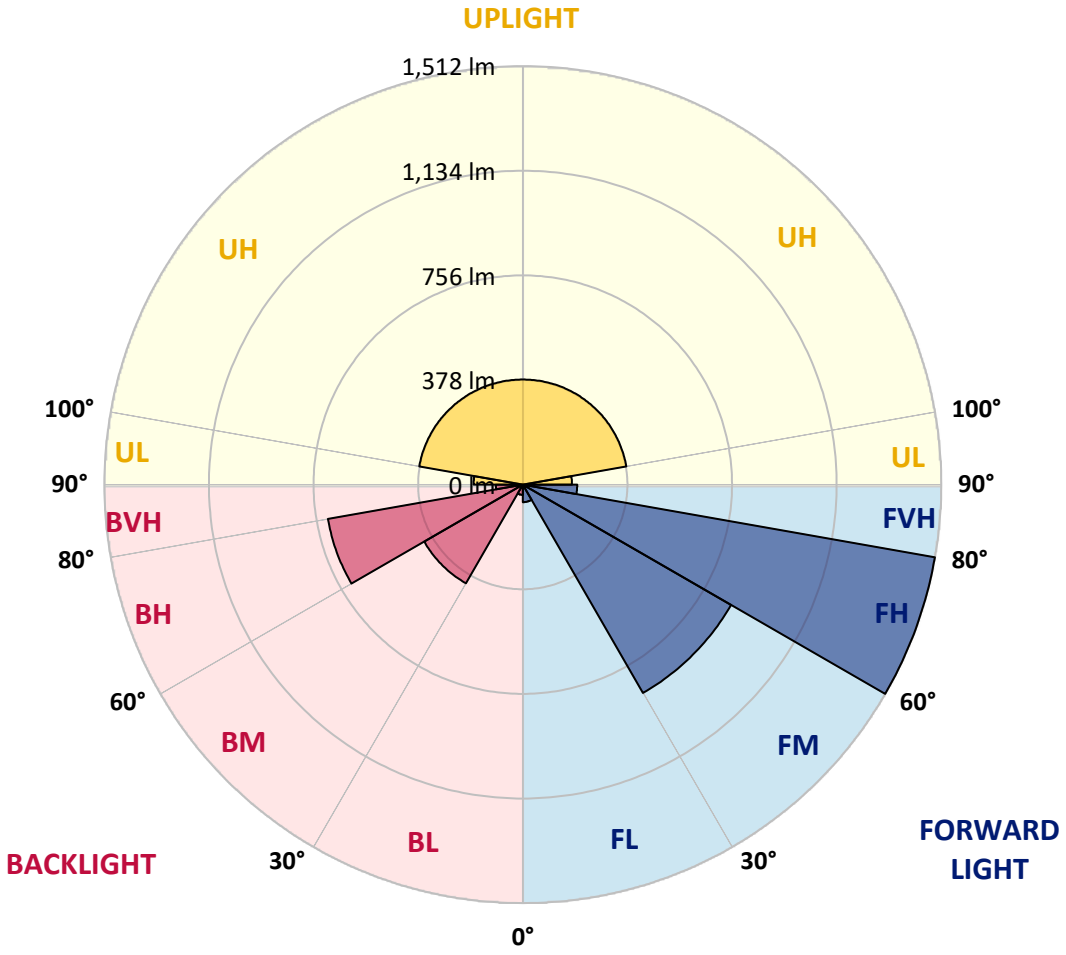
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	63.5	1.4			
FM	(30°-60°)	869.1	19.5			
FH	(60°-80°)	1512.1	33.9			G1/1800
FVH	(80°-90°)	196.6	4.4			G2/225
BL	(0°-30°)	37.1	0.8	B0/110		
BM	(30°-60°)	411.6	9.2	B1/1000		
BH	(60°-80°)	715.1	16.0	B2/1000		G2/1000
BVH	(80°-90°)	97.7	2.2			G1/100
UL	(90°-100°)	177.7	4.0		U3/500	
UH	(100°-180°)	379.9	8.5		U3/500	

BUG Rating: B2-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7
2.5°	81.1	81.1	92.8	94.8	106.0	109.5	103.3	98.7	110.1	133.5	137.3
5°	88.1	89.9	89.6	89.3	89.9	100.4	111.2	106.3	87.2	69.4	69.4
7.5°	99.8	100.4	100.1	99.8	96.0	89.9	87.2	95.1	100.1	85.2	71.4
10°	108.0	107.4	107.1	106.8	107.4	109.8	108.9	99.2	89.6	84.6	81.7
12.5°	123.5	123.8	122.9	122.4	121.8	120.9	120.0	122.1	116.8	102.5	92.8
15°	135.2	135.2	137.6	137.0	137.0	134.1	130.0	124.1	117.1	113.3	104.8
17.5°	147.5	147.8	147.5	147.5	146.4	142.6	138.2	132.9	125.6	119.1	111.8
20°	159.5	159.5	159.2	159.0	158.7	155.7	150.2	143.1	136.4	130.3	122.7
22.5°	172.1	173.0	173.6	173.0	172.1	169.2	163.1	156.3	149.9	141.1	132.9
25°	190.0	190.3	189.7	189.1	187.9	184.1	179.4	172.4	164.5	155.1	144.3
27.5°	207.0	207.5	207.3	207.3	204.9	201.7	197.0	187.6	178.9	168.0	156.9
30°	226.3	225.7	224.2	224.5	223.1	220.4	215.2	207.0	195.8	183.0	170.7
32.5°	245.3	245.3	243.3	242.4	242.4	238.9	233.0	224.5	214.0	200.2	188.2
35°	266.1	271.4	276.6	278.7	278.7	273.7	266.7	255.6	246.5	232.1	217.2
37.5°	365.9	362.7	349.8	351.3	346.9	344.8	340.2	330.8	318.2	296.2	273.4
40°	401.0	400.5	390.8	389.6	387.6	380.8	375.9	369.4	365.0	338.7	304.4
42.5°	407.2	410.4	423.3	426.5	443.2	433.0	413.0	376.8	367.7	347.8	333.4
45°	476.3	477.5	477.5	478.0	473.6	466.0	463.4	440.3	422.1	393.4	366.5
47.5°	545.1	547.7	537.5	545.7	557.1	541.6	534.5	515.5	490.6	468.4	424.2
50°	704.9	715.2	717.2	717.5	722.5	721.3	710.8	684.4	659.5	608.6	559.4
52.5°	1000.9	1010.8	1015.2	1004.7	989.2	982.1	984.8	973.9	916.3	861.5	761.7
55°	1387.3	1404.5	1404.5	1415.7	1411.0	1377.6	1375.6	1304.7	1211.6	1150.7	1063.8
57.5°	1904.2	1878.2	1892.8	1908.6	1876.4	1841.3	1788.9	1714.8	1578.7	1473.6	1347.8
60°	2287.4	2276.9	2247.9	2230.1	2149.6	2079.9	2038.6	1984.5	1881.1	1742.9	1574.6
62.5°	2357.7	2365.3	2363.3	2363.3	2298.9	2215.4	2132.0	2052.7	1988.6	1846.3	1713.1
63°	2353.3	2362.7	2366.5	2365.3	2307.3	2225.1	2142.2	2054.7	1995.3	1850.1	1721.3
65°	2315.8	2323.7	2317.0	2314.7	2278.1	2222.4	2129.4	2042.7	1988.6	1833.1	1722.5
67.5°	2165.4	2163.6	2138.4	2149.8	2126.7	2095.7	2008.8	1923.3	1885.8	1716.0	1614.1
70°	1748.8	1736.5	1764.0	1780.4	1755.2	1742.9	1639.6	1583.4	1535.1	1406.0	1323.7
72.5°	1336.9	1311.5	1316.1	1331.1	1299.5	1291.0	1246.8	1200.5	1177.4	1096.9	1005.5
75°	1048.3	1034.5	1009.1	1013.2	987.1	978.6	973.9	960.5	951.4	884.4	793.9
77.5°	783.9	783.4	762.0	758.8	740.0	754.1	748.5	768.7	764.3	711.1	642.3
80°	548.6	545.4	550.9	548.9	544.5	552.7	543.9	555.0	555.0	520.2	491.2
82.5°	358.0	364.5	382.0	386.1	392.6	411.9	380.8	364.5	360.1	356.3	342.2
85°	355.4	357.1	349.5	350.4	347.5	340.2	345.7	348.4	344.0	322.9	291.9
87.5°	334.9	337.2	331.1	332.8	322.0	324.4	327.9	329.9	327.9	309.1	283.4
90°	282.2	284.8	290.4	290.4	291.3	291.9	286.3	289.5	287.5	269.6	250.9
92.5°	250.3	252.6	252.9	253.2	250.9	258.5	249.4	243.8	242.4	228.0	214.6
95°	228.9	226.3	225.7	226.3	225.1	224.8	219.0	214.9	213.1	201.7	188.5
97.5°	179.2	180.6	180.0	181.5	178.6	178.3	173.3	168.0	166.3	156.9	148.1
100°	157.2	156.9	157.5	157.8	156.0	154.0	150.5	146.7	144.6	137.6	129.1
102.5°	147.5	147.2	148.4	148.7	147.2	145.8	142.9	140.5	138.8	132.3	122.9
105°	141.4	140.5	142.0	142.0	138.8	137.9	135.8	135.5	134.4	126.8	117.7
107.5°	132.9	131.4	133.2	132.9	131.7	130.9	129.1	127.9	127.0	120.6	110.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	125.0	122.9	*123.8*	124.4	125.3	124.7	123.2	120.9	118.6	113.3	104.8
112.5°	110.4	111.5	*111.2*	111.2	112.1	112.4	109.8	108.3	106.8	102.8	97.2
115°	104.8	104.8	*104.8*	104.8	102.5	101.6	98.9	97.2	96.9	91.9	88.4
117.5°	100.4	101.0	*102.5*	103.3	106.3	104.5	98.7	94.8	93.4	91.3	87.5
120°	118.3	116.2	*114.2*	113.9	114.2	113.0	111.8	109.2	105.7	100.1	89.6
122.5°	126.8	121.5	*122.4*	122.1	120.0	120.9	121.2	121.5	119.1	110.4	94.0
125°	106.3	104.8	*105.7*	106.6	106.8	106.6	106.0	108.6	105.4	102.5	90.2
127.5°	84.9	84.3	*82.6*	82.3	81.7	82.0	82.0	82.8	79.9	77.0	76.4
130°	80.8	79.6	*79.9*	80.2	79.9	78.2	77.0	75.5	75.2	72.3	68.2
132.5°	73.2	73.8	*78.7*	79.3	82.8	80.8	74.6	70.5	71.1	72.6	71.1
135°	68.5	68.2	*72.0*	72.3	77.6	76.1	71.1	66.5	66.5	70.0	68.5
137.5°	70.0	70.5	*70.8*	71.1	70.8	70.5	70.3	68.2	66.7	66.5	62.9
140°	75.2	74.9	*72.0*	72.3	72.0	72.0	73.8	75.2	70.3	65.9	60.0
142.5°	78.7	79.6	*78.5*	79.9	82.6	80.2	77.3	73.5	70.5	67.6	64.1
145°	106.8	104.8	*103.9*	103.3	101.6	96.6	93.7	89.9	86.4	81.7	75.8
147.5°	96.9	97.5	*95.7*	96.3	94.0	92.2	91.6	91.9	90.7	88.1	82.0
150°	77.0	77.6	*75.8*	74.9	74.1	74.1	74.1	74.6	73.2	71.4	68.5
152.5°	53.9	53.3	*52.7*	52.4	51.8	51.2	51.2	51.5	50.1	49.5	47.1
155°	49.5	49.2	*46.8*	46.3	46.8	47.4	47.7	46.8	45.7	44.5	41.3
157.5°	38.6	37.8	*37.5*	38.1	38.1	37.8	37.2	37.8	36.6	36.3	35.7
160°	31.6	31.3	*31.6*	31.6	31.9	31.9	31.6	31.6	31.0	31.3	31.3
162.5°	26.9	26.9	*26.9*	26.6	27.2	27.5	27.2	27.2	27.5	28.4	29.0
165°	23.1	23.1	*23.4*	23.4	23.7	23.7	24.0	24.3	24.9	26.9	28.7
167.5°	21.7	21.7	*22.0*	22.0	22.2	22.5	23.1	24.3	26.1	28.4	29.3
170°	21.4	21.4	*21.4*	21.4	21.7	22.0	23.1	24.9	26.9	28.4	27.5
172.5°	22.2	22.2	*22.5*	22.5	22.5	23.7	24.6	26.1	27.2	27.5	26.6
175°	23.1	22.8	*23.1*	23.1	23.4	24.3	25.5	26.1	26.6	26.9	27.2
177.5°	22.5	22.5	*22.5*	22.8	22.8	23.1	23.7	24.0	24.6	25.2	26.1
180°	22.0	22.0	*22.0*	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7
2.5°	137.3	133.5	103.9	89.0	101.6	126.2	128.5	111.2	86.4	60.0	54.7
5°	73.2	77.3	86.4	86.1	80.2	74.9	68.5	64.4	71.1	68.2	70.0
7.5°	66.2	62.4	63.8	74.6	72.9	55.3	50.1	48.9	54.7	68.2	66.7
10°	80.5	79.3	74.9	66.2	63.2	65.6	67.6	66.2	60.9	53.0	51.8
12.5°	91.0	89.6	90.2	95.7	89.0	73.8	65.3	62.6	65.6	77.3	79.6
15°	101.3	98.7	94.8	86.9	80.5	76.4	71.4	66.2	67.9	64.7	63.5
17.5°	108.3	104.2	96.3	90.5	84.0	78.7	74.4	68.8	65.0	64.1	64.4
20°	117.7	113.3	104.8	98.1	90.2	83.1	75.5	69.7	65.9	64.4	64.4
22.5°	128.5	123.2	113.6	104.2	95.4	86.4	77.3	70.8	67.3	65.9	65.3
25°	139.9	134.7	122.7	112.7	101.6	91.6	82.3	74.1	70.3	68.5	67.0
27.5°	151.6	145.2	133.2	120.9	108.9	97.2	87.2	78.7	73.5	70.5	70.8
30°	164.5	159.2	145.8	131.7	116.8	103.0	93.4	83.7	77.3	74.1	74.4
32.5°	181.8	173.3	157.2	141.1	126.5	111.2	98.9	87.8	80.8	78.7	79.0
35°	210.5	199.6	180.0	158.1	138.5	120.6	105.1	91.9	83.7	80.5	80.2
37.5°	262.3	247.7	225.1	199.4	171.0	142.0	116.8	96.6	86.4	81.1	80.2
40°	287.5	267.6	239.2	216.9	197.6	172.7	144.0	113.6	90.7	84.0	83.1
42.5°	321.1	304.4	267.6	224.2	198.5	177.7	157.5	137.9	109.5	91.9	88.7
45°	353.6	338.7	309.7	267.3	228.9	196.4	166.3	144.9	127.3	109.5	108.0
47.5°	408.4	392.6	344.3	306.5	266.1	229.2	197.6	162.5	139.6	127.0	127.0
50°	545.7	516.7	469.0	411.0	346.0	286.3	241.5	198.5	171.0	151.9	151.1
52.5°	737.4	696.4	626.2	562.1	485.4	416.3	346.6	271.7	231.6	204.0	203.7
55°	1014.3	972.5	878.5	755.3	661.3	578.7	506.4	424.2	360.9	316.4	312.9
57.5°	1309.7	1274.6	1178.8	1025.7	877.6	731.5	644.0	578.4	548.0	517.0	510.5
60°	1501.1	1440.8	1353.6	1207.5	1064.1	877.9	769.3	694.1	683.8	677.1	668.6
62.5°	1621.8	1550.6	1420.9	1245.9	1114.2	937.9	840.7	760.5	736.5	700.5	690.3
63°	*1635.5*	*1558.2*	*1431.8*	*1245.0*	*1115.6*	*938.8*	*846.0*	*760.5*	*732.4*	*689.1*	*682.4*
65°	1629.1	1557.4	1431.2	1226.9	1081.7	921.5	830.8	725.7	680.9	623.5	612.1
67.5°	1530.7	1454.3	1335.5	1134.6	1003.5	840.2	740.3	628.8	560.9	504.7	491.5
70°	1246.2	1198.8	1094.2	920.7	821.1	693.8	606.3	518.7	445.3	386.1	371.2
72.5°	949.6	899.9	821.4	708.7	635.2	547.7	464.9	397.5	336.9	297.7	298.9
75°	753.5	706.1	641.4	567.3	507.3	429.4	347.5	280.7	237.7	214.3	212.2
77.5°	606.8	574.1	517.6	449.3	397.5	316.2	243.3	185.0	153.1	139.6	135.8
80°	467.8	445.0	402.8	342.8	288.9	222.2	165.7	130.9	113.9	102.5	100.4
82.5°	332.8	319.1	284.0	242.1	205.5	170.7	145.2	122.4	104.8	95.1	92.2
85°	277.8	264.9	242.7	216.6	193.2	167.7	140.8	116.5	100.1	92.5	88.7
87.5°	269.6	257.6	236.2	208.4	183.0	155.4	128.2	105.4	93.7	86.4	84.0
90°	241.5	232.4	213.7	188.2	162.8	134.7	110.9	94.8	85.8	79.9	77.3
92.5°	208.1	200.2	184.7	163.3	142.0	121.8	103.6	90.2	81.1	75.2	73.2
95°	180.9	175.9	163.1	144.9	129.4	112.7	97.2	84.3	74.9	69.7	67.6
97.5°	144.3	138.5	129.1	116.5	104.8	93.1	81.7	72.9	66.2	62.6	60.9
100°	125.6	121.8	113.3	103.3	93.4	83.1	74.4	67.6	63.2	60.3	58.8
102.5°	118.3	115.6	107.7	97.8	88.4	78.5	69.7	63.5	60.3	57.7	56.5
105°	111.5	109.5	103.3	94.3	85.2	74.4	64.4	59.1	56.2	54.4	53.6
107.5°	104.5	102.2	96.3	87.5	79.6	70.3	61.5	55.0	51.2	49.2	48.9

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

Scaled Data Report

REPORT NUMBER: P1046423
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	98.7	96.9	90.5	83.4	75.8	67.0	59.4	52.7	48.3	46.0	45.7
112.5°	92.5	90.5	84.0	77.3	70.8	63.2	56.5	50.6	46.5	44.2	43.9
115°	84.3	82.6	77.9	71.4	66.2	58.8	53.3	48.0	44.8	42.4	42.2
117.5°	85.2	80.2	73.8	67.9	63.2	58.0	53.0	48.9	43.9	41.3	41.3
120°	86.4	81.7	75.2	70.3	67.6	63.5	55.9	50.1	43.3	40.7	40.4
122.5°	85.2	85.8	82.3	77.3	72.0	65.0	55.6	49.2	42.4	40.4	40.7
125°	82.6	85.2	80.2	73.5	66.5	59.7	51.8	46.0	41.9	40.4	40.1
127.5°	74.6	74.1	67.6	62.6	57.7	52.1	47.1	43.6	40.7	38.9	38.1
130°	65.9	65.6	62.9	58.8	53.9	48.9	44.5	42.2	39.2	36.9	36.3
132.5°	69.4	68.5	62.9	56.2	50.6	46.5	43.6	41.0	36.9	34.3	34.0
135°	65.6	65.0	59.4	52.7	47.7	45.7	43.6	39.8	34.8	32.8	32.5
137.5°	60.0	57.7	53.0	48.9	46.5	46.0	43.3	38.9	34.3	31.9	31.6
140°	57.1	55.3	51.8	49.2	46.5	43.3	39.5	35.4	32.2	30.4	30.2
142.5°	60.6	60.0	54.7	50.1	46.0	42.2	38.1	35.4	31.9	29.6	29.3
145°	71.7	68.8	62.4	55.9	52.4	47.4	42.2	36.6	30.2	26.6	25.8
147.5°	78.5	75.8	69.4	62.4	54.7	46.8	38.6	31.6	26.6	24.0	23.4
150°	65.0	63.8	59.7	53.3	46.8	39.5	32.8	27.8	24.6	22.8	22.8
152.5°	45.7	45.4	43.6	39.8	35.7	31.6	28.1	25.2	23.4	22.2	22.2
155°	40.4	39.8	38.6	35.1	32.2	28.7	26.1	24.3	23.1	22.2	22.2
157.5°	34.8	34.3	34.0	31.3	29.0	26.6	24.6	23.1	22.2	21.7	21.4
160°	31.0	30.2	29.3	27.8	26.3	25.2	24.3	23.1	22.2	21.7	21.7
162.5°	29.0	28.4	26.9	25.8	25.2	25.2	25.5	24.9	23.1	22.2	22.0
165°	29.0	28.1	26.1	24.9	24.9	26.3	27.8	26.6	25.2	23.4	23.1
167.5°	29.3	28.7	26.6	25.8	26.6	28.4	29.9	29.6	27.5	26.1	26.1
170°	27.2	26.9	27.2	28.1	29.0	29.3	29.9	29.6	30.2	32.2	32.2
172.5°	26.3	26.6	28.1	29.6	31.3	31.3	29.9	29.6	32.2	35.1	35.7
175°	27.5	28.1	29.6	31.3	32.8	32.8	31.3	31.6	34.3	36.9	37.5
177.5°	26.3	26.6	27.2	26.9	27.5	26.1	26.6	26.1	26.9	26.9	26.9
180°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0

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

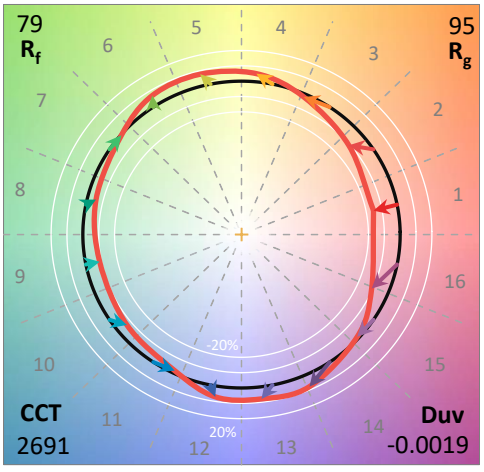
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

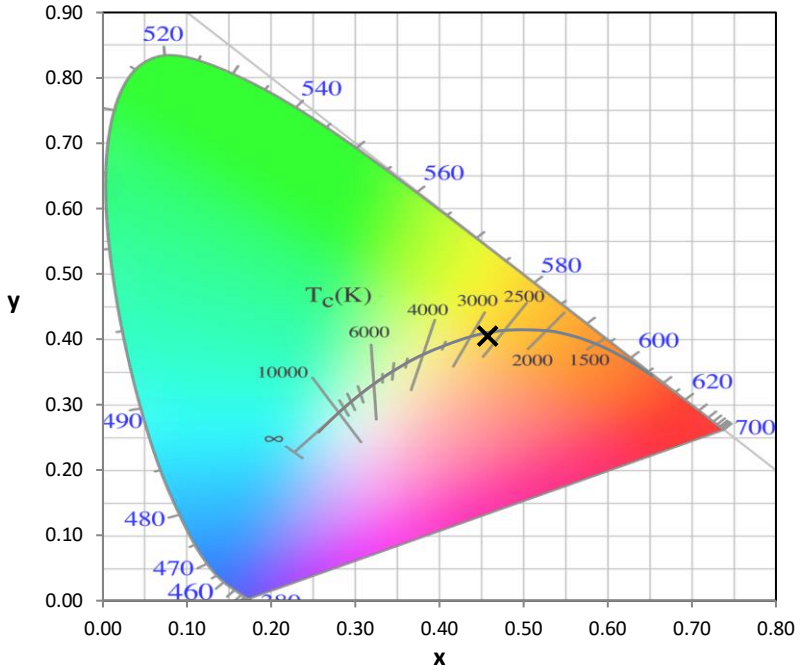
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

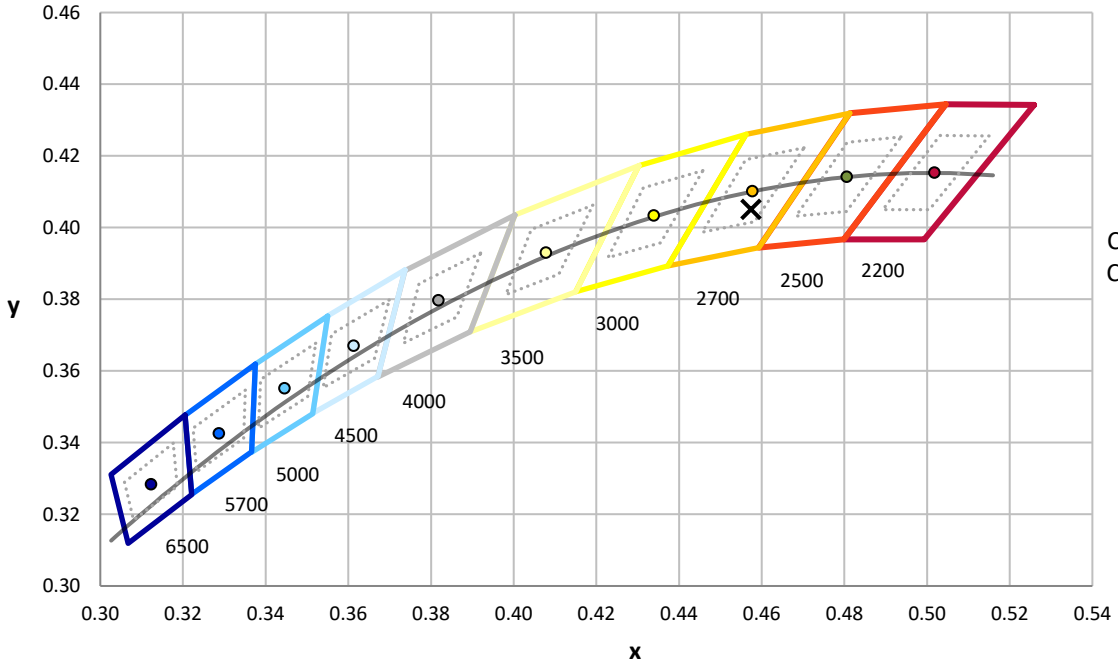
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

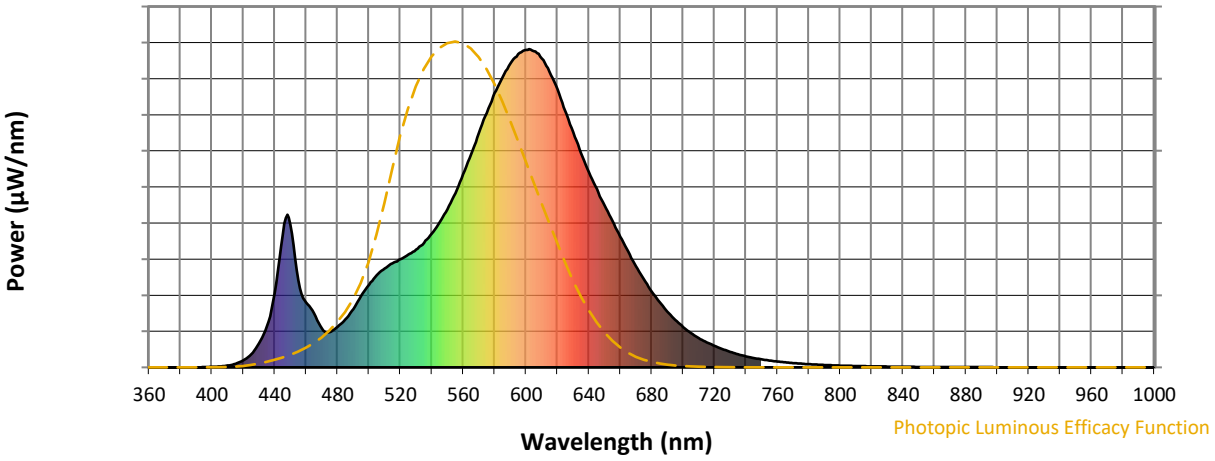


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

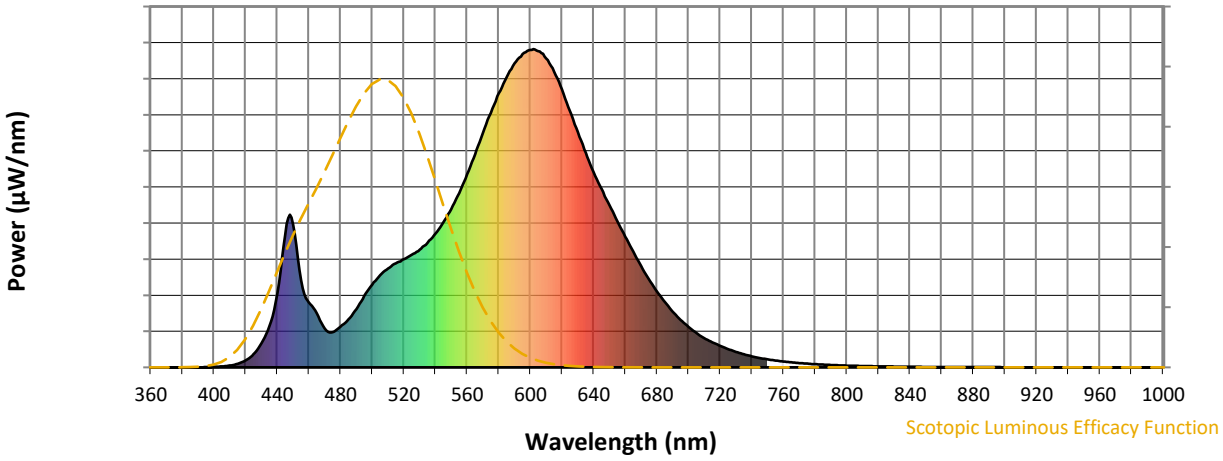


Photopic Lumens: NR

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

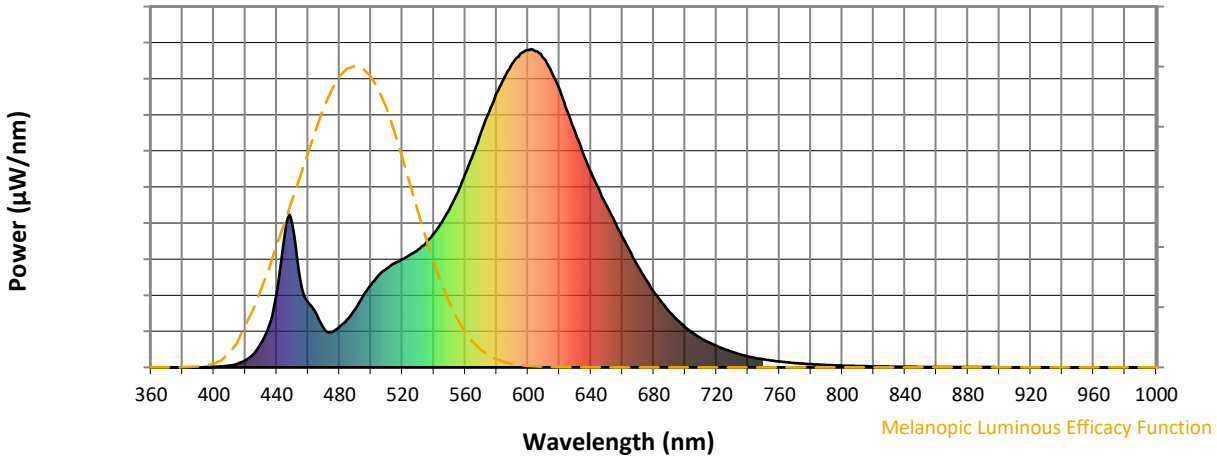


Scotopic Lumens: NR **S/P: 1.18**

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			

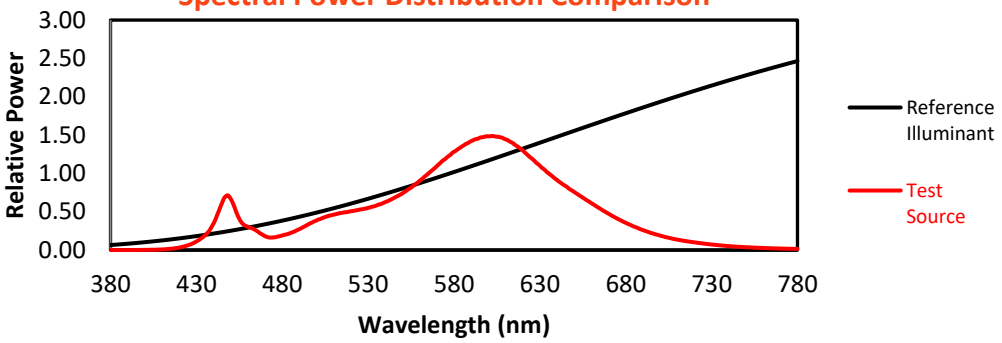
REPORT NUMBER: SP1-2501-332-8

TM-30-18

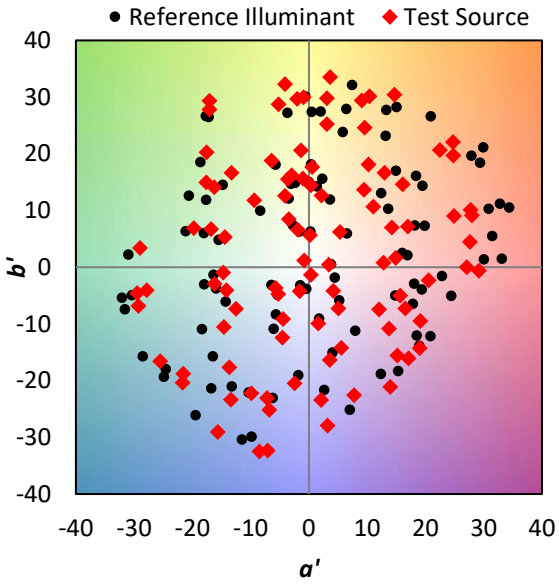
Summary

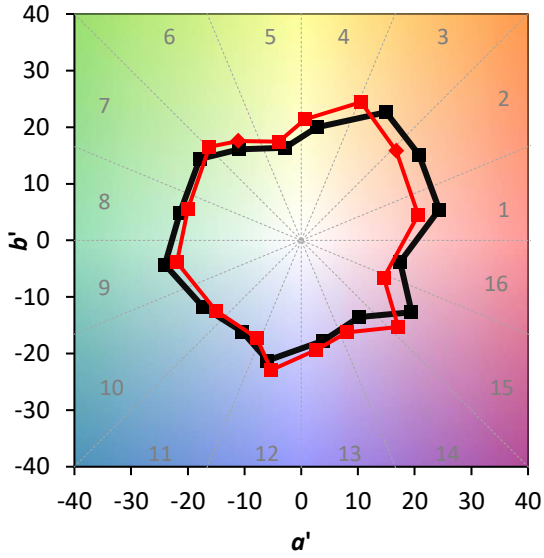
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

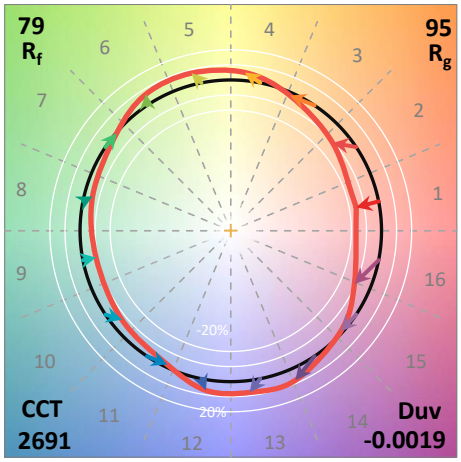
Spectral Power Distribution Comparison

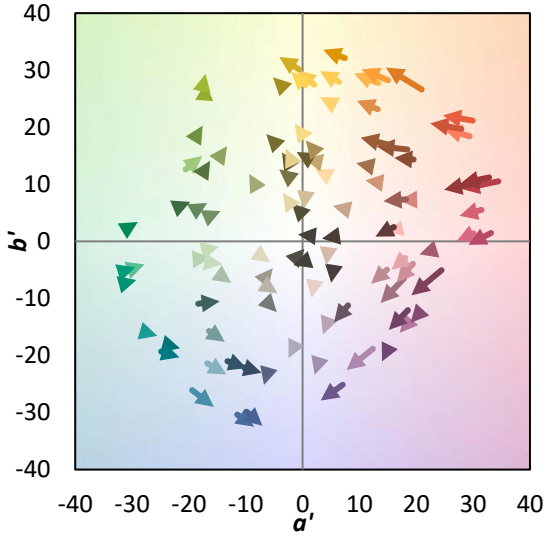


Color Vector Graphics







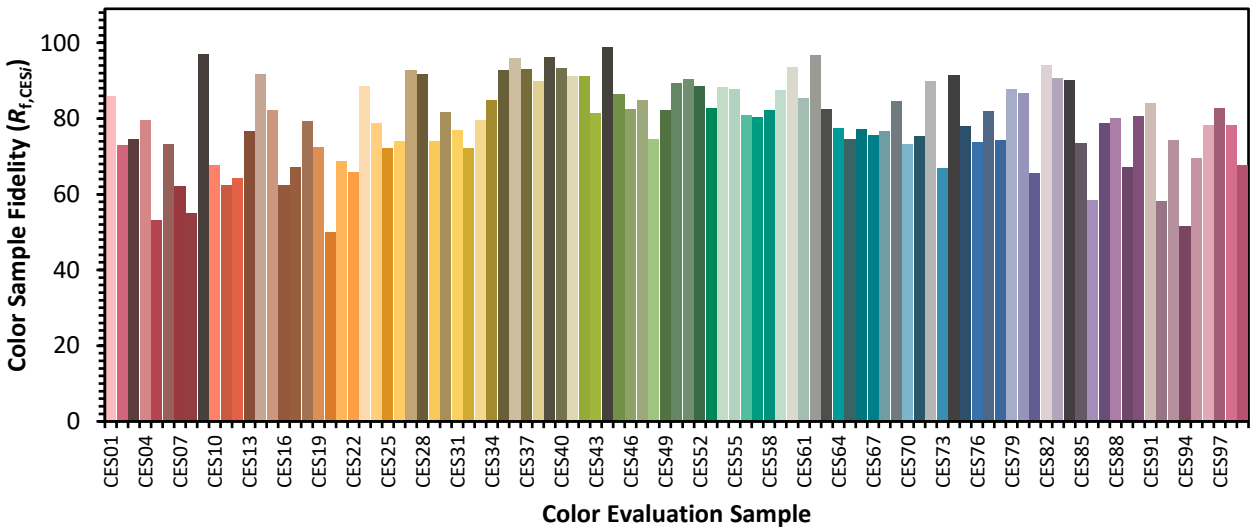


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

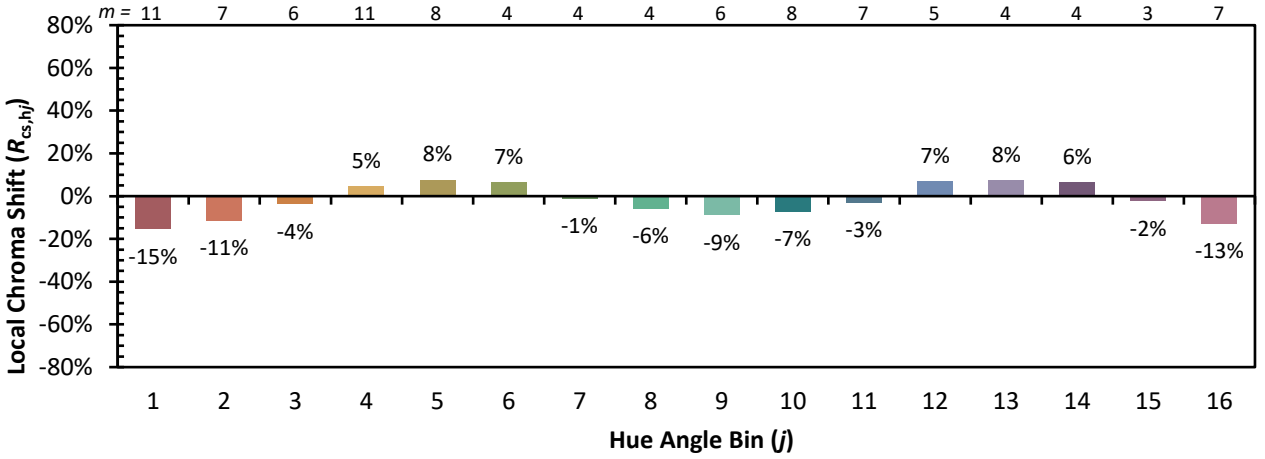
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 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	

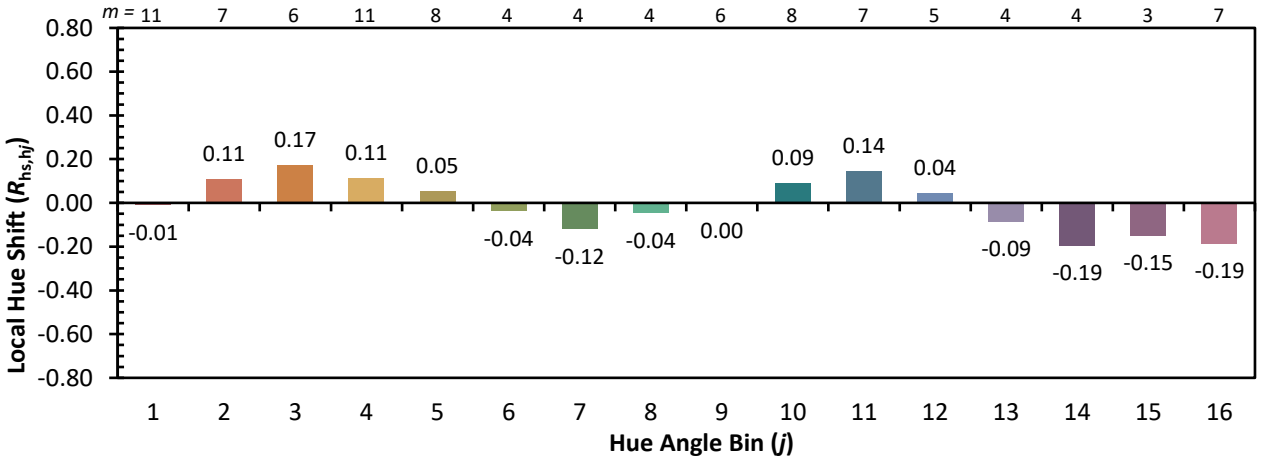


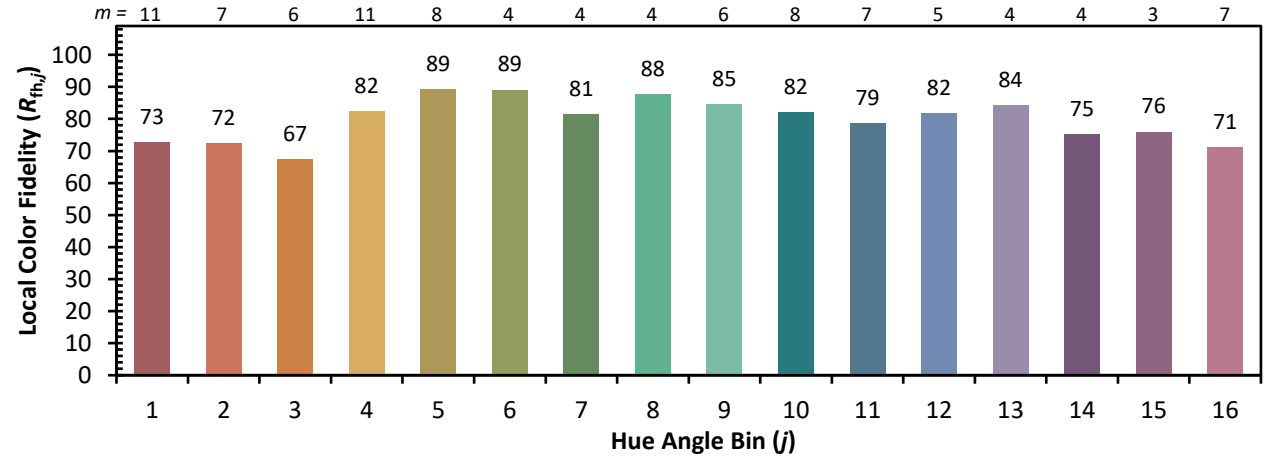
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Color Rendition by Hue-Angle Bin



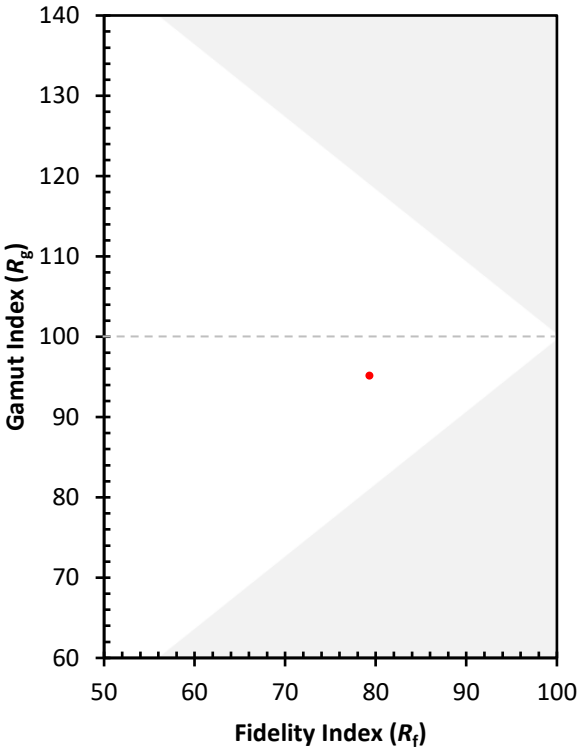


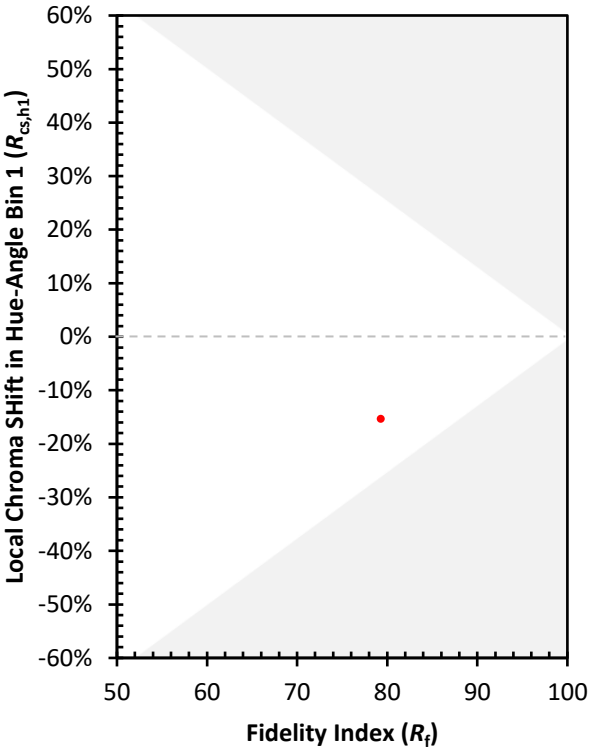


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Measure Comparisons





(END OF REPORT)