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: P1045748

Luminaire Tested: **FFX-CLB-30-727-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:	P1045748
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-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:	3005.3 lumens
Efficiency:	N/A
Efficacy:	98.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - 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

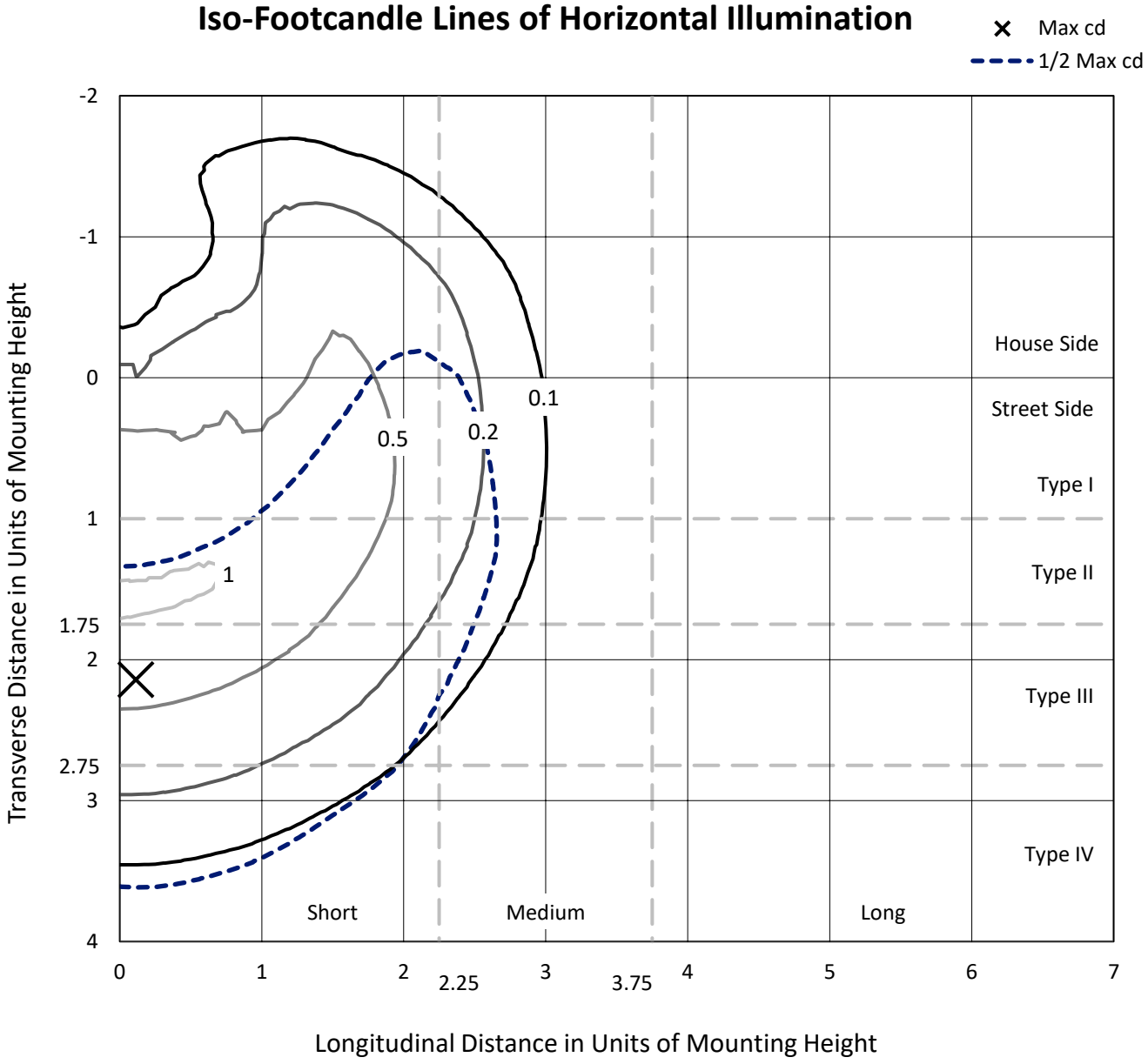


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Iso-Footcandle Lines of Horizontal Illumination



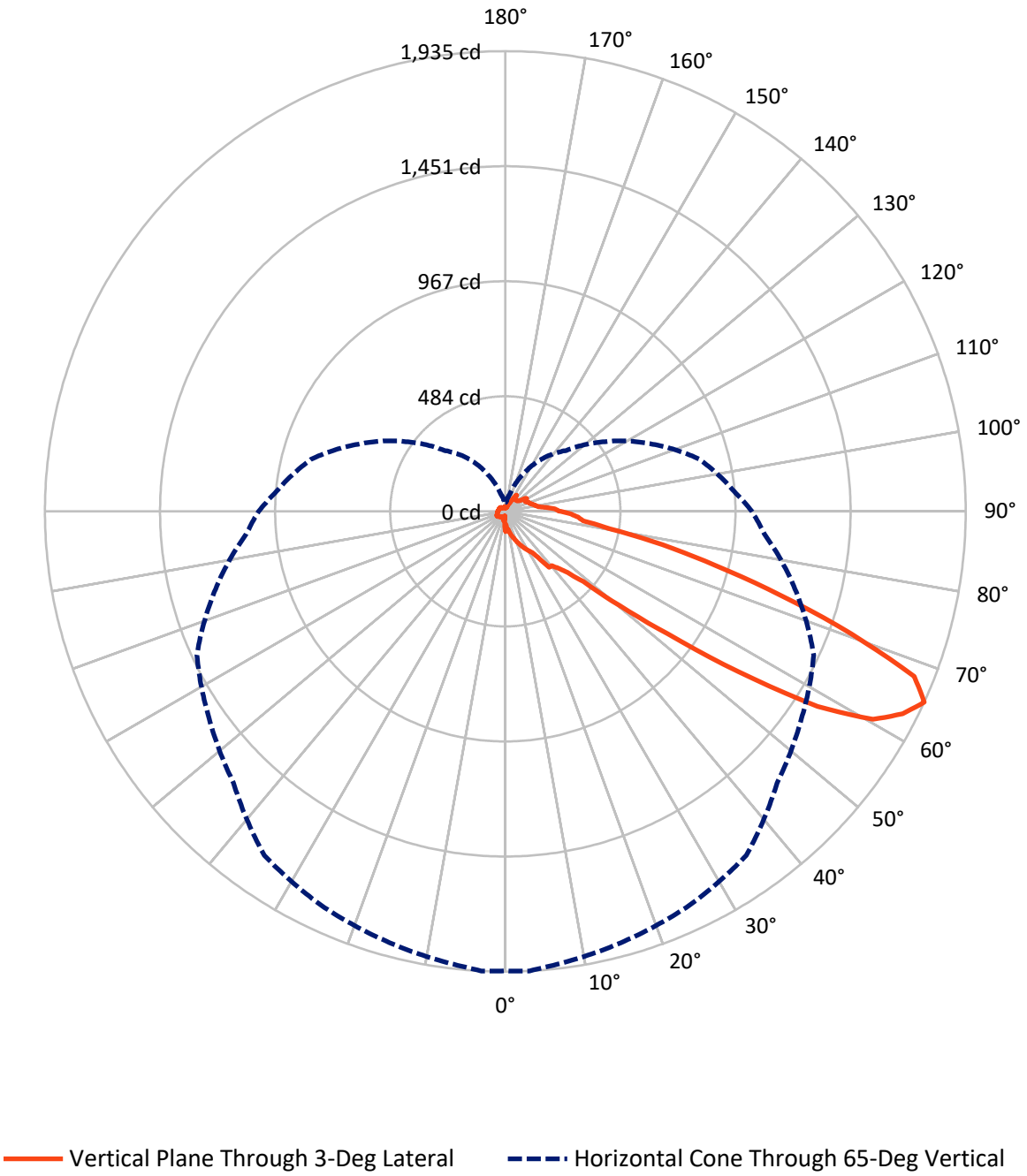
Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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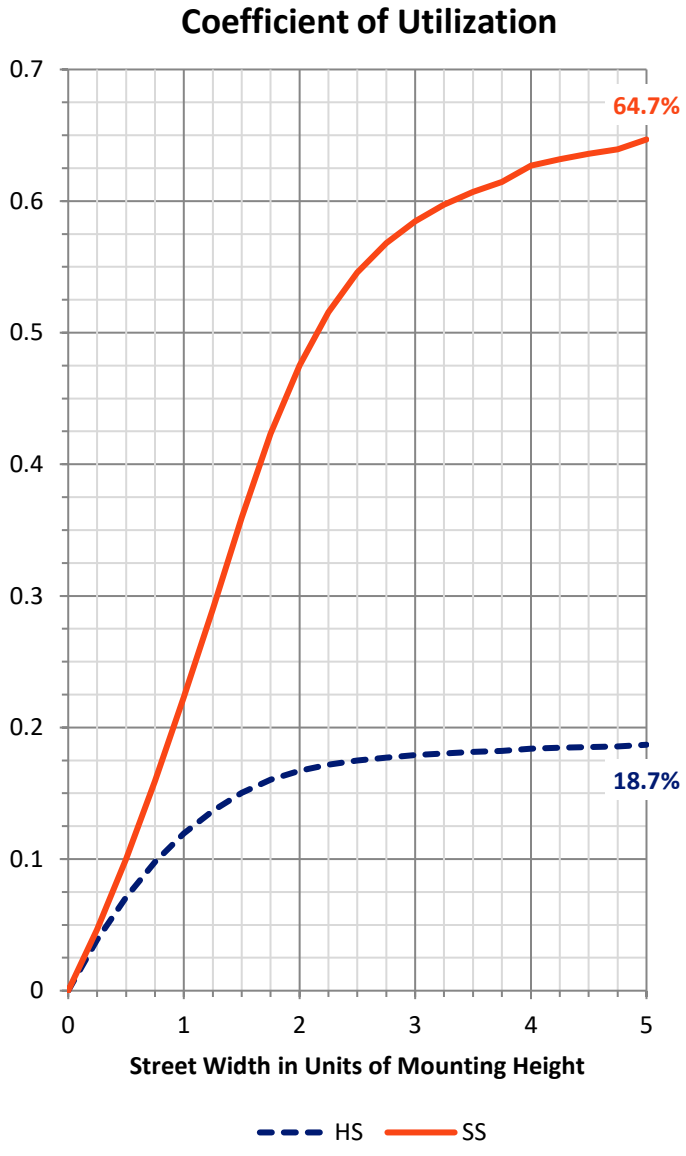
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	581.4	126.4	707.9
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	2027.5	270.0	2297.5
	% Fixture	67.5	9.0	76.4
Total	Lumens	2609.0	396.4	3005.3
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.2
10°-20°	20.5	0.7
20°-30°	45.7	1.5
30°-40°	92.3	3.1
40°-50°	185.5	6.2
50°-60°	595.2	19.8
60°-70°	949.4	31.6
70°-80°	516.5	17.2
80°-90°	198.5	6.6
90°-100°	118.3	3.9
100°-110°	78.5	2.6
110°-120°	62.6	2.1
120°-130°	52.1	1.7
130°-140°	35.9	1.2
140°-150°	29.0	1.0
150°-160°	12.9	0.4
160°-170°	5.3	0.2
170°-180°	1.8	0.1
0°-90°	2609.0	86.8
0°-180°	3005.3	100.0



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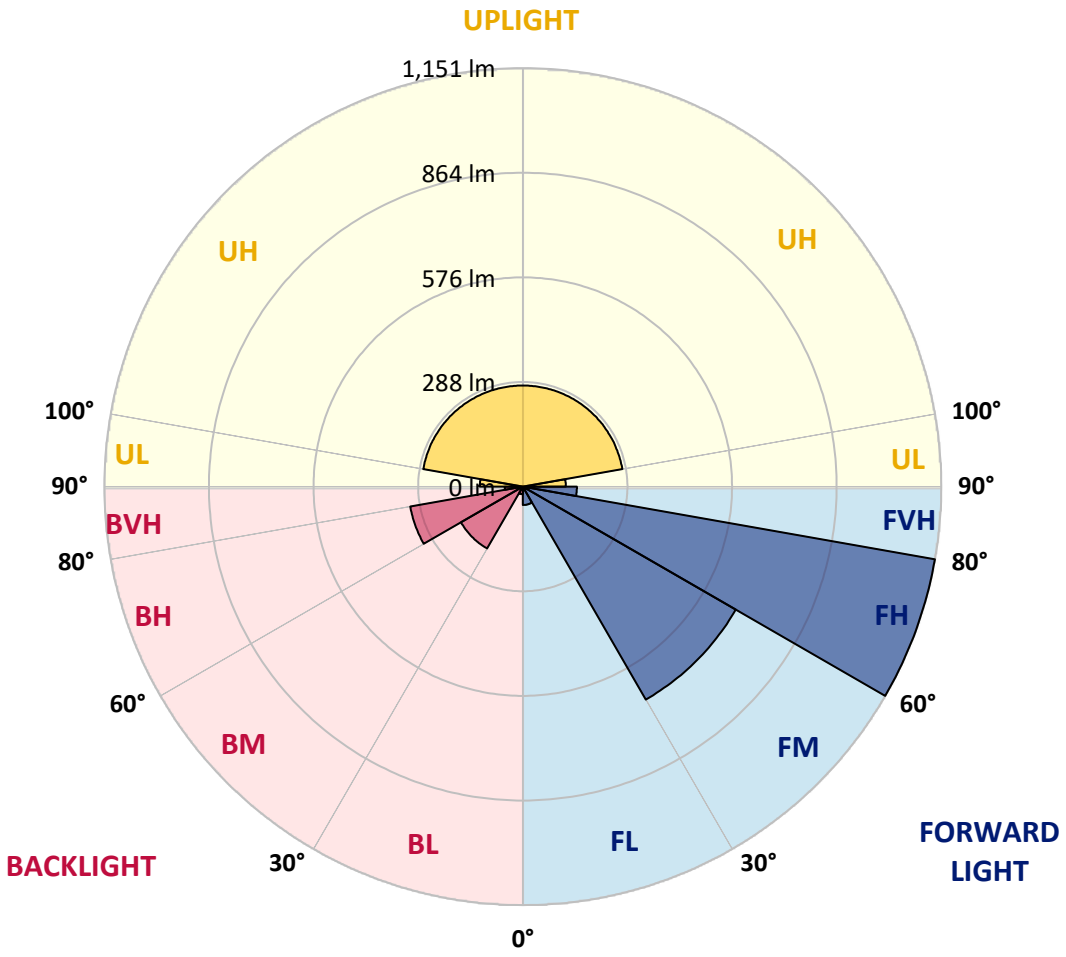
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	50.7	1.7			
FM	(30°-60°)	676.6	22.5			
FH	(60°-80°)	1151.5	38.3			G1/1800
FVH	(80°-90°)	148.8	5.0			G2/225
BL	(0°-30°)	20.9	0.7	B0/110		
BM	(30°-60°)	196.5	6.5	B0/220		
BH	(60°-80°)	314.4	10.5	B1/500		G1/500
BVH	(80°-90°)	49.7	1.7			G1/100
UL	(90°-100°)	118.3	3.9		U3/500	
UH	(100°-180°)	278.1	9.3		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2.5°	54.9	54.6	55.6	60.4	72.9	77.0	73.5	67.7	66.6	72.9	77.7
5°	74.9	74.2	73.5	68.7	63.9	66.3	73.2	74.9	68.0	55.2	47.0
7.5°	76.0	75.3	75.6	75.6	74.6	70.1	64.9	67.3	73.2	65.3	51.4
10°	84.6	84.3	84.3	83.9	82.9	81.5	81.1	76.0	67.0	60.1	57.3
12.5°	98.8	98.8	98.4	98.1	97.0	94.6	91.5	87.4	84.6	76.3	67.7
15°	110.1	109.1	109.8	108.8	107.0	105.7	101.9	97.4	89.1	83.6	76.0
17.5°	121.2	121.2	121.5	119.8	117.7	116.7	112.6	106.7	98.8	89.1	81.8
20°	135.0	134.0	134.0	132.2	129.8	126.4	122.6	117.4	110.8	97.7	88.0
22.5°	148.1	148.5	148.5	145.7	141.9	138.8	133.6	127.4	121.2	107.7	95.3
25°	163.0	162.6	162.3	161.9	158.1	152.6	146.1	139.5	135.0	121.9	104.6
27.5°	176.8	176.1	175.8	177.5	174.0	168.5	158.8	150.9	146.1	132.6	113.3
30°	192.0	191.6	191.6	192.3	190.9	182.3	172.0	162.6	155.7	142.3	121.5
32.5°	205.4	204.8	205.1	207.9	207.5	196.5	187.1	175.8	167.1	156.4	133.6
35°	238.6	237.2	239.3	243.4	246.5	234.8	222.0	204.4	191.3	180.2	156.8
37.5°	298.3	298.7	299.4	293.8	282.1	273.5	267.3	253.1	236.9	218.2	190.6
40°	300.8	300.4	302.1	310.4	315.3	300.4	285.9	269.3	265.2	249.3	214.1
42.5°	328.7	326.6	328.4	336.3	342.9	333.9	321.1	293.2	278.0	263.8	234.8
45°	368.8	366.4	369.5	370.8	369.5	359.8	361.9	339.1	324.9	296.3	255.9
47.5°	429.9	440.9	442.7	443.0	456.8	443.7	435.4	413.7	381.5	347.4	301.4
50°	603.6	621.5	615.3	609.4	610.5	600.5	589.1	559.0	515.9	458.2	392.6
52.5°	861.5	854.6	855.6	859.4	869.1	824.6	805.2	760.0	690.2	621.2	526.6
55°	1177.1	1188.8	1188.2	1200.6	1198.9	1150.9	1089.7	1013.8	912.3	811.1	699.2
57.5°	1567.3	1546.6	1532.8	1510.0	1490.3	1425.0	1384.6	1302.4	1168.1	1016.2	872.6
60°	1786.2	1774.8	1771.4	1739.9	1713.0	1632.9	1549.7	1460.6	1355.6	1176.1	1013.1
62.5°	1868.4	1873.9	1869.1	1848.7	1830.7	1760.7	1620.8	1523.8	1429.9	1257.2	1085.6
65°	1931.6	1934.7	1923.6	1877.4	1828.3	1765.5	1614.9	1519.3	1430.2	1260.3	1092.5
67.5°	1854.2	1853.5	1844.9	1778.3	1695.4	1633.2	1496.5	1393.6	1318.0	1176.1	1014.1
70°	1539.7	1541.7	1543.5	1494.4	1403.6	1357.3	1218.9	1130.5	1065.2	942.7	826.3
72.5°	1205.4	1211.6	1214.4	1176.1	1108.7	1061.1	968.5	902.3	841.5	744.1	652.6
75°	906.7	913.0	911.2	887.4	840.1	827.0	782.1	725.5	674.7	599.1	521.7
77.5°	680.2	675.0	673.7	650.5	603.9	607.4	594.6	562.1	522.8	478.2	424.4
80°	450.6	446.1	437.1	445.1	441.3	430.2	409.2	392.6	377.1	350.5	321.1
82.5°	331.5	330.1	328.4	323.2	319.7	317.0	307.7	281.1	262.4	247.2	229.6
85°	310.1	305.9	306.6	297.6	286.9	277.3	270.0	258.6	244.1	220.3	194.7
87.5°	270.7	270.7	268.6	262.4	251.7	249.3	244.1	236.2	227.5	209.2	186.5
90°	225.1	223.8	223.8	223.4	221.0	219.3	209.2	202.0	198.2	179.9	164.0
92.5°	207.9	207.2	205.8	204.1	197.2	195.8	185.8	176.4	168.2	156.8	144.3
95°	168.8	170.2	167.1	166.8	163.3	161.3	153.3	148.8	143.3	134.0	122.6
97.5°	142.6	140.5	140.9	137.8	134.3	132.9	128.1	121.5	116.4	109.1	100.8
100°	130.9	130.5	129.8	127.4	122.6	119.5	114.3	108.1	102.9	96.3	89.4
102.5°	123.3	122.9	122.6	120.5	115.0	113.3	108.4	103.6	99.1	93.2	84.3
105°	115.7	115.3	114.6	112.2	108.8	107.0	102.6	99.8	95.3	90.1	81.5
107.5°	108.8	108.8	108.4	105.7	103.6	102.2	97.7	95.3	90.5	86.0	77.7
110°	105.3	105.3	105.0	102.9	98.8	96.7	92.5	89.4	84.9	80.5	73.9

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	101.5	*101.9*	101.9	102.6	92.5	88.7	85.3	82.9	79.1	74.9	69.4
115°	92.9	*93.2*	92.9	96.3	92.9	87.7	85.6	81.5	76.7	70.1	64.2
117.5°	93.6	*93.6*	94.3	96.0	94.3	89.4	84.9	79.8	75.6	69.1	63.9
120°	106.0	*105.3*	105.3	101.9	101.2	96.7	93.6	88.0	81.1	74.6	67.3
122.5°	101.9	*101.5*	101.9	96.3	96.0	95.0	93.9	92.9	83.9	80.1	70.8
125°	81.5	*80.8*	80.5	78.4	81.8	79.4	78.7	81.1	75.3	71.8	66.6
127.5°	72.9	*72.2*	71.8	71.1	73.2	69.1	68.4	69.1	64.6	60.4	57.3
130°	69.7	*68.7*	68.7	71.1	74.2	70.8	67.0	64.2	62.5	59.7	54.6
132.5°	66.0	*66.0*	66.3	69.4	74.9	71.1	64.2	58.7	58.0	58.4	55.9
135°	64.9	*64.6*	64.9	63.9	63.5	61.5	58.4	53.9	52.8	55.6	52.8
137.5°	66.6	*66.3*	66.0	63.2	60.1	58.4	57.7	54.9	52.1	50.4	47.7
140°	66.0	*66.0*	65.6	64.9	62.8	59.4	58.7	55.9	53.2	50.1	46.6
142.5°	67.0	*68.0*	68.7	69.4	68.7	64.9	61.1	56.6	53.5	51.8	48.0
145°	82.5	*82.5*	82.5	81.1	78.7	75.6	72.9	69.7	67.3	61.8	56.6
147.5°	68.4	*68.4*	68.0	68.4	68.4	67.0	66.6	65.6	66.0	63.2	58.0
150°	47.3	*48.3*	48.3	50.1	50.8	50.1	50.1	50.8	49.7	49.4	46.6
152.5°	38.3	*38.0*	37.3	38.0	38.0	38.3	38.3	37.6	37.3	37.3	35.6
155°	33.8	*33.8*	33.8	33.5	32.8	33.1	33.5	33.5	32.5	31.8	30.4
157.5°	26.9	*26.6*	26.6	27.3	27.3	27.3	27.3	27.3	27.3	27.6	28.0
160°	22.8	*22.1*	22.4	22.4	22.8	23.1	22.8	23.1	23.1	23.5	23.1
162.5°	18.6	*18.3*	18.3	18.6	19.0	19.3	19.7	19.7	20.0	20.7	21.1
165°	16.6	*16.6*	16.6	16.9	16.9	17.3	17.6	18.0	18.6	19.7	20.0
167.5°	15.5	*15.5*	15.5	15.5	15.9	16.2	16.9	18.0	18.6	19.7	19.7
170°	15.2	*15.2*	15.5	15.5	15.5	15.9	17.3	18.3	18.6	19.0	19.0
172.5°	15.9	*15.9*	15.9	15.9	15.9	16.6	18.3	18.6	18.6	18.6	19.0
175°	16.6	*16.6*	16.2	16.2	16.6	16.9	17.3	19.0	19.7	20.0	20.7
177.5°	15.5	*15.5*	15.5	15.9	15.9	16.2	16.6	17.3	17.3	18.0	19.0
180°	17.3	*17.3*	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2.5°	81.1	87.0	79.8	72.2	66.6	69.7	73.2	70.4	67.3	67.7	61.8
5°	48.7	50.1	50.8	44.2	36.6	40.7	49.7	46.6	35.9	20.0	17.3
7.5°	47.0	44.9	44.2	49.0	44.5	29.7	23.1	21.1	28.0	33.5	35.2
10°	55.6	53.2	48.0	39.4	34.9	32.8	32.1	30.7	26.6	20.7	19.7
12.5°	63.9	61.1	56.3	52.1	46.3	38.7	33.8	32.5	34.9	39.0	39.0
15°	72.2	68.4	62.2	56.6	52.1	43.9	37.6	32.1	31.4	32.5	32.5
17.5°	78.0	73.9	66.6	59.0	51.1	43.2	35.9	30.4	28.0	27.3	27.3
20°	83.9	80.1	71.5	63.2	53.5	44.2	35.9	30.0	27.3	26.2	25.9
22.5°	91.5	86.7	77.0	68.0	56.3	44.9	35.6	30.4	27.3	25.6	25.2
25°	100.1	94.6	83.6	72.9	59.0	45.6	35.9	30.7	27.6	25.6	25.2
27.5°	107.0	101.2	90.5	78.4	62.5	47.3	37.3	31.4	28.0	25.9	25.6
30°	115.0	108.8	96.7	84.3	66.6	50.1	40.1	33.5	29.3	26.6	26.6
32.5°	127.1	118.8	105.3	89.8	70.8	53.2	43.2	35.9	30.7	28.7	28.7
35°	146.7	138.5	120.5	100.5	75.3	56.3	45.6	38.3	32.5	29.7	29.7
37.5°	178.2	165.7	145.7	118.1	82.5	58.7	48.3	40.1	33.5	29.7	29.0
40°	196.5	182.7	157.5	131.2	91.5	61.8	50.4	41.4	34.2	30.0	29.7
42.5°	216.8	201.0	168.5	134.7	97.4	69.1	53.5	42.8	34.9	31.1	30.4
45°	238.3	223.1	193.7	153.0	111.2	79.1	58.7	45.6	36.9	32.5	31.8
47.5°	277.3	258.6	220.6	178.9	131.6	95.0	70.1	50.1	39.4	33.8	33.1
50°	365.0	347.7	294.9	232.4	164.0	117.7	87.7	59.4	43.2	34.9	33.8
52.5°	483.8	453.0	393.3	314.9	228.9	165.1	117.1	80.1	49.0	35.9	34.2
55°	656.4	622.2	533.8	431.6	313.5	239.6	177.1	120.5	69.7	36.9	33.8
57.5°	828.0	786.6	712.3	572.5	421.3	305.6	236.9	176.4	101.5	41.4	34.9
60°	950.9	900.5	808.7	680.6	511.0	359.5	267.6	192.3	112.9	42.5	35.9
62.5°	1023.4	960.3	844.9	692.0	532.4	381.9	280.0	181.6	97.0	41.4	37.3
65°	*1036.6*	*964.8*	*844.9*	*672.3*	*510.3*	*362.2*	*270.7*	*167.8*	*76.7*	*39.7*	*38.3*
67.5°	961.3	894.3	793.1	617.4	452.7	311.1	233.1	138.1	58.4	38.3	38.0
70°	789.0	738.6	656.1	504.5	367.4	253.1	185.4	106.4	47.3	36.6	35.9
72.5°	615.7	569.0	507.2	395.7	284.2	200.6	141.6	83.2	42.1	35.2	34.9
75°	484.4	449.6	398.5	312.5	213.7	151.9	107.4	62.8	38.0	34.5	33.8
77.5°	396.4	373.6	320.8	238.6	159.5	112.9	80.1	50.1	36.3	33.8	33.5
80°	308.3	289.4	256.2	178.5	114.3	84.9	63.2	44.2	35.2	33.5	33.1
82.5°	220.0	213.4	185.4	138.8	95.3	72.9	57.0	42.5	34.9	33.1	32.8
85°	183.7	174.4	153.7	120.5	87.7	69.4	54.6	41.8	34.9	33.1	32.8
87.5°	177.5	169.2	150.2	115.0	82.5	65.3	52.1	40.4	34.2	32.5	32.5
90°	156.8	148.5	134.0	103.6	76.0	60.8	48.7	38.3	32.8	31.1	31.1
92.5°	138.8	134.0	120.2	95.0	72.9	58.4	47.0	37.3	32.1	30.7	30.4
95°	117.4	113.3	102.6	85.6	68.4	55.6	45.6	36.3	31.4	30.0	30.0
97.5°	97.4	93.9	85.6	72.5	59.0	49.4	41.1	34.2	30.4	29.3	29.3
100°	86.0	83.2	76.0	65.3	54.6	46.3	39.7	33.8	30.0	28.7	28.7
102.5°	81.5	78.7	71.5	61.8	51.8	44.2	38.7	33.1	29.7	28.3	28.0
105°	78.0	75.3	68.7	58.7	49.0	42.1	36.6	32.5	29.0	28.0	27.6
107.5°	74.6	71.5	65.3	55.2	46.6	40.1	35.2	31.4	28.7	27.6	27.6
110°	70.8	68.0	62.2	52.5	44.9	38.7	34.5	31.1	28.7	27.6	27.6

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

Scaled Data Report

REPORT NUMBER: P1045748
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	66.6	63.9	58.4	49.7	43.2	37.6	33.8	30.7	28.7	27.6	27.6
115°	61.8	59.4	54.2	47.0	41.1	36.3	32.8	30.0	28.0	27.3	27.3
117.5°	60.4	57.7	52.5	45.9	40.4	35.2	32.1	29.3	27.6	26.9	26.9
120°	63.5	59.7	54.2	48.0	40.4	34.5	31.4	29.0	27.3	26.6	26.6
122.5°	67.7	64.6	58.4	47.0	39.0	33.8	30.7	28.7	26.9	26.6	26.6
125°	63.9	61.8	55.9	43.5	37.6	33.1	30.4	28.7	27.3	26.6	26.6
127.5°	55.9	53.9	49.4	41.4	36.3	32.5	30.0	28.7	27.6	26.6	26.6
130°	52.8	50.1	45.9	39.7	34.9	31.4	29.7	28.7	27.6	26.2	25.9
132.5°	54.2	51.8	45.2	37.3	32.8	30.0	28.7	28.0	25.9	24.5	24.2
135°	51.1	48.7	42.1	35.6	31.8	29.7	28.3	26.2	24.2	22.4	22.4
137.5°	45.6	42.8	39.0	34.2	31.4	30.4	28.7	25.9	23.1	21.8	21.8
140°	45.2	42.1	38.7	33.8	30.7	28.0	25.9	23.1	21.1	20.4	20.0
142.5°	45.9	43.9	39.0	33.5	29.3	25.9	23.5	21.4	20.0	19.0	19.0
145°	53.2	50.1	43.9	36.6	31.8	27.6	24.2	21.4	19.3	17.6	17.3
147.5°	54.9	51.8	46.3	40.1	33.8	28.7	23.8	20.4	17.6	16.2	15.9
150°	45.9	43.9	40.7	35.9	30.4	25.2	21.1	18.0	16.2	15.5	15.2
152.5°	34.9	34.2	32.1	28.7	24.9	21.4	18.6	16.9	15.9	15.5	15.2
155°	29.7	29.3	27.3	24.5	21.4	19.0	17.3	16.2	15.5	15.5	15.2
157.5°	27.6	26.9	25.2	22.4	19.7	18.3	16.6	15.9	15.5	15.5	15.5
160°	23.1	22.4	21.1	20.0	18.3	17.3	16.2	15.9	15.5	15.5	15.2
162.5°	20.7	20.0	19.3	18.3	18.0	17.6	17.3	16.6	16.2	15.9	15.9
165°	19.7	19.3	18.3	18.0	18.0	18.3	18.3	17.6	16.9	16.2	16.2
167.5°	19.3	19.0	18.3	18.0	18.6	19.0	19.3	18.6	18.0	16.9	16.6
170°	19.3	19.3	19.0	18.6	19.0	19.3	19.7	19.7	19.3	18.6	18.6
172.5°	19.3	19.7	19.3	19.3	19.3	19.3	19.3	20.0	20.0	19.7	19.7
175°	20.7	20.7	19.7	19.3	19.7	20.0	20.4	20.0	20.0	20.4	20.4
177.5°	19.0	19.7	21.1	21.4	22.1	22.1	21.4	21.1	20.0	19.7	19.7
180°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3

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

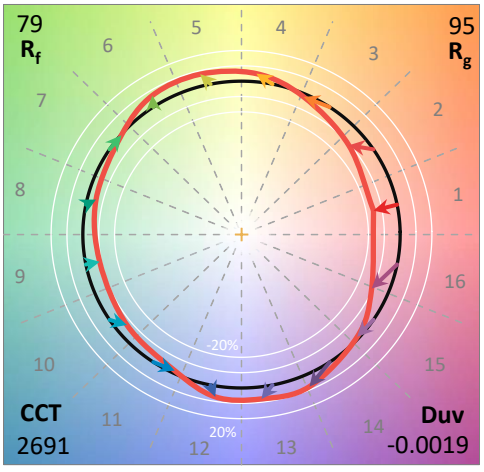
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

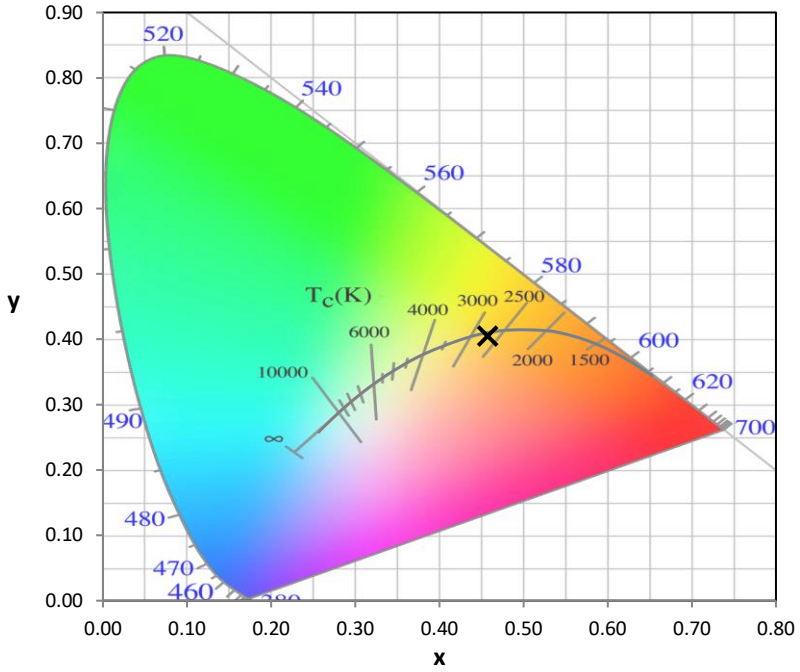
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

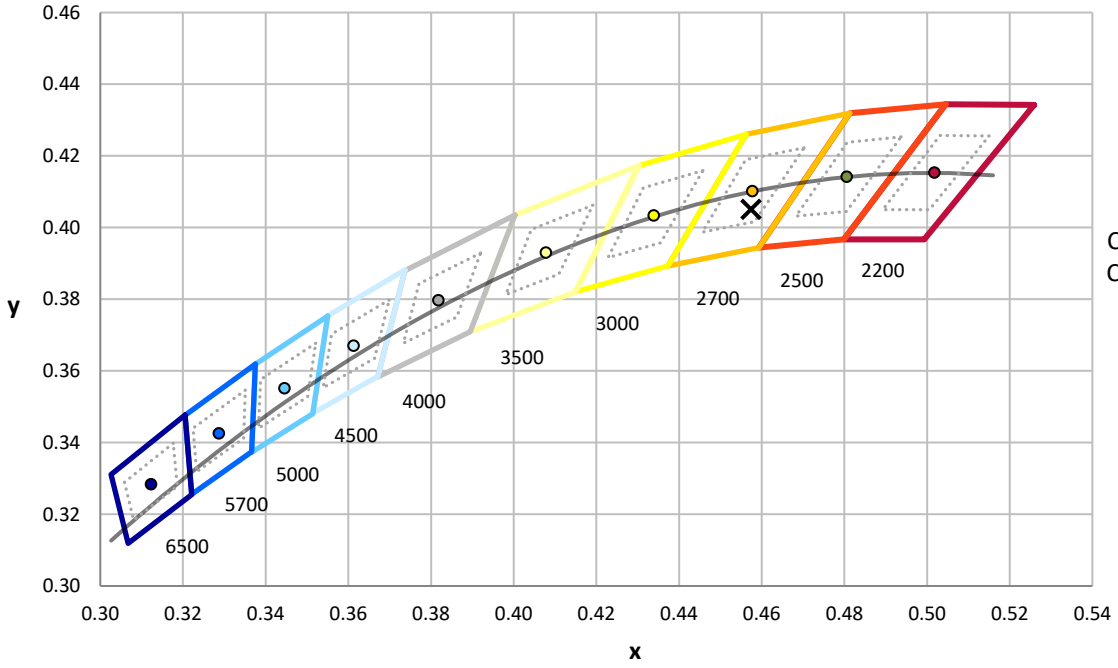
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

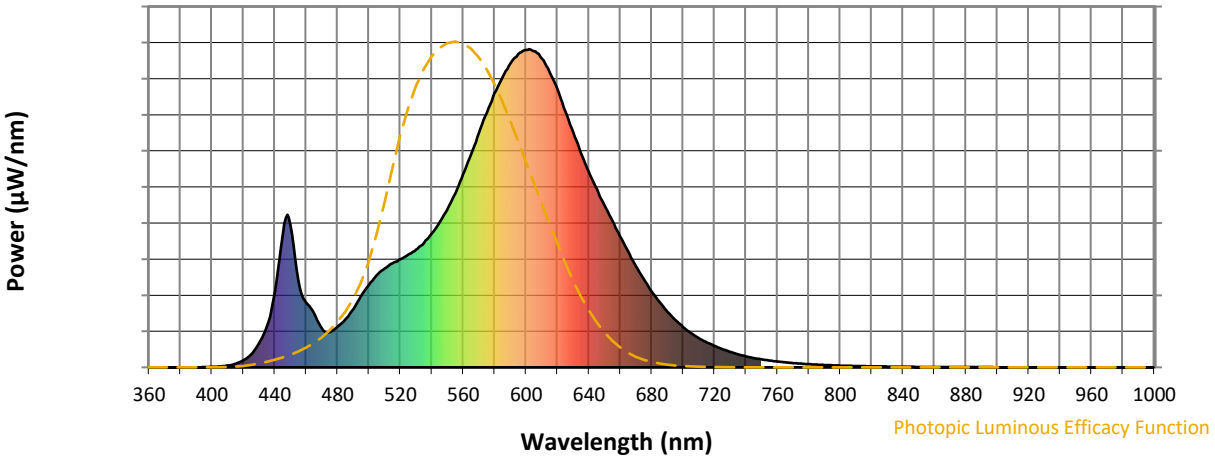


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

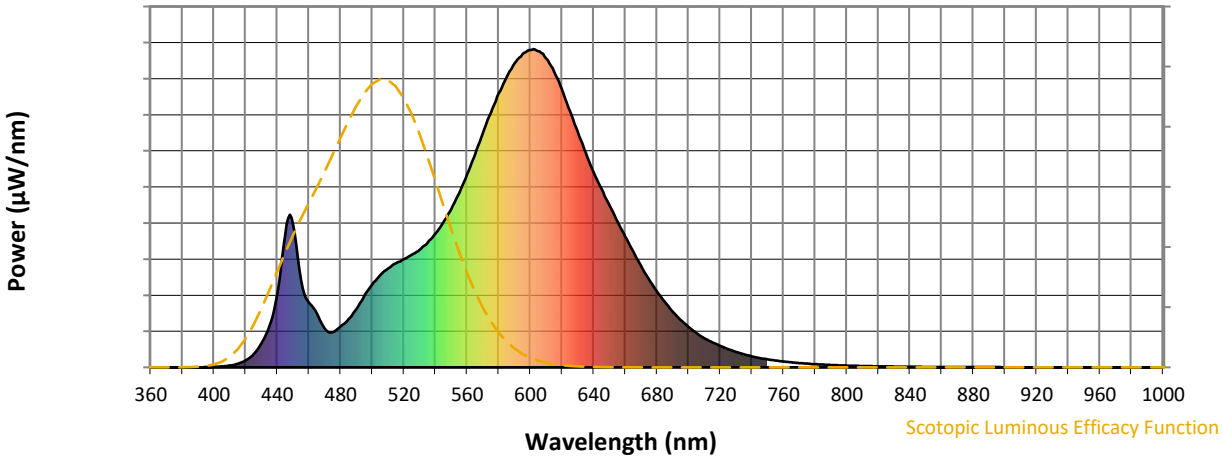


Photopic Lumens: NR

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

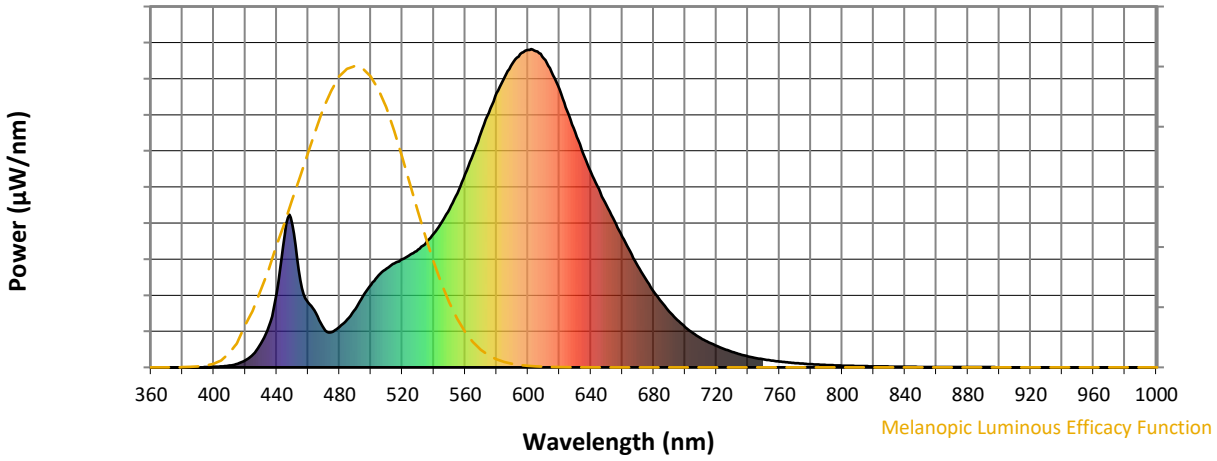


Scotopic Lumens: NR **S/P: 1.18**

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			

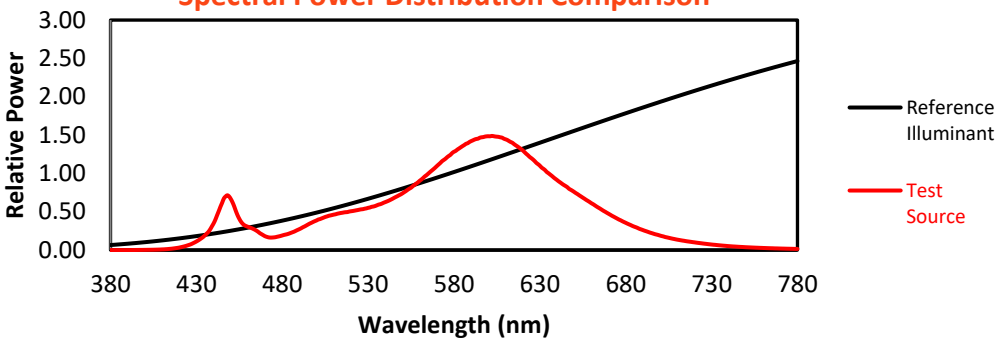
REPORT NUMBER: SP1-2501-332-8

TM-30-18

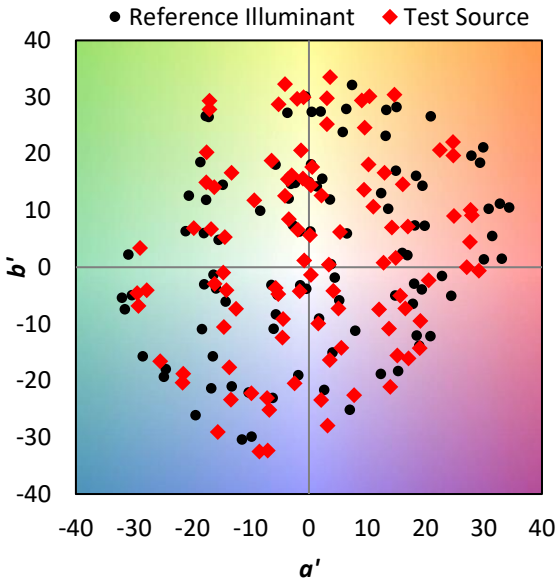
Summary

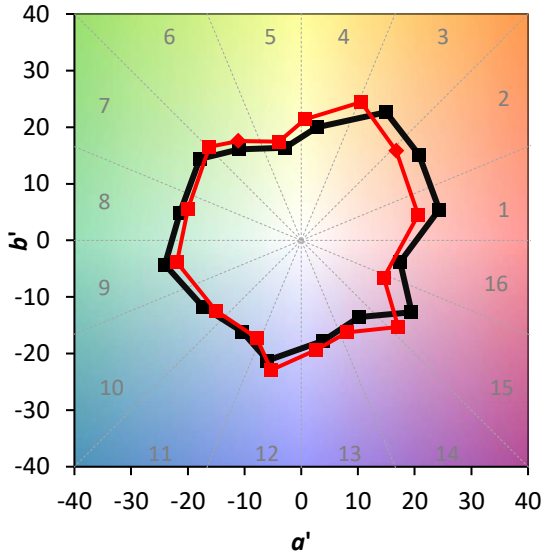
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

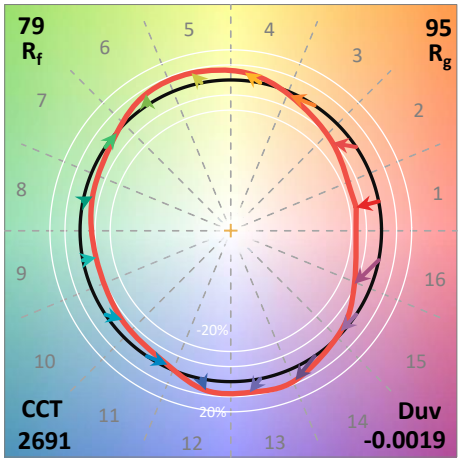
Spectral Power Distribution Comparison

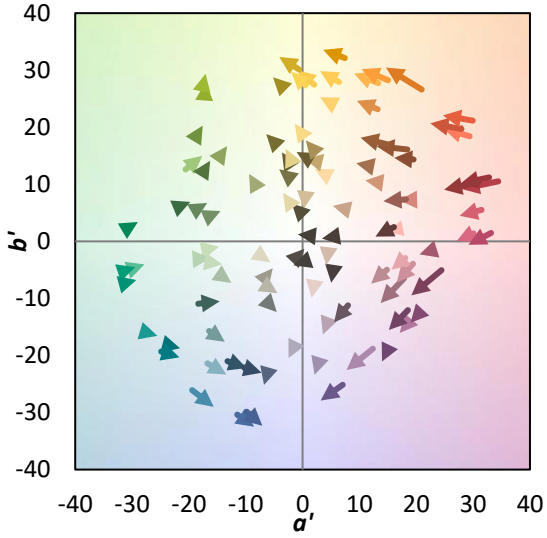


Color Vector Graphics







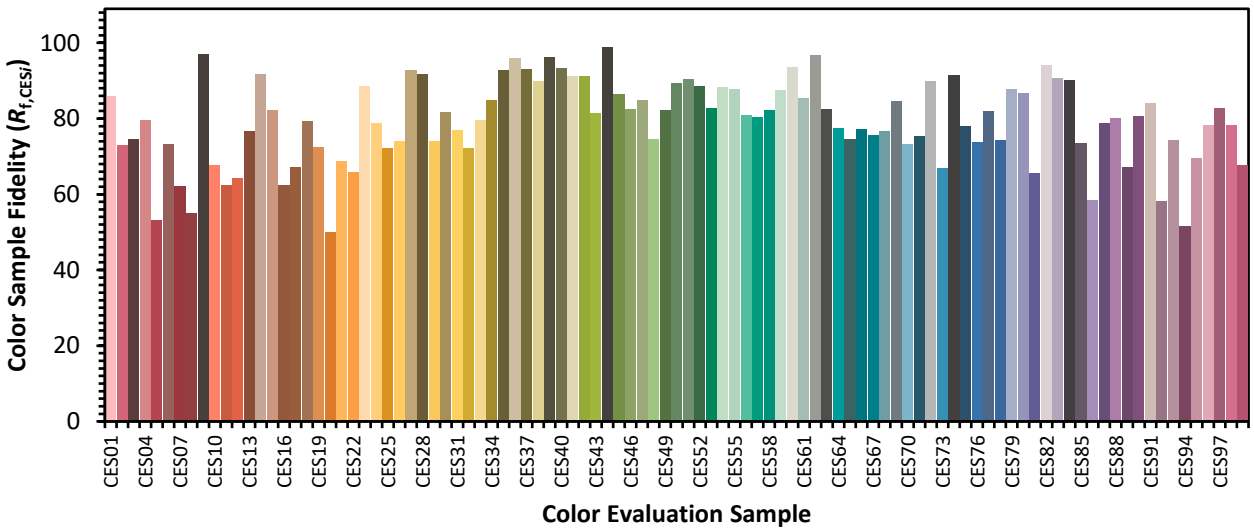


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

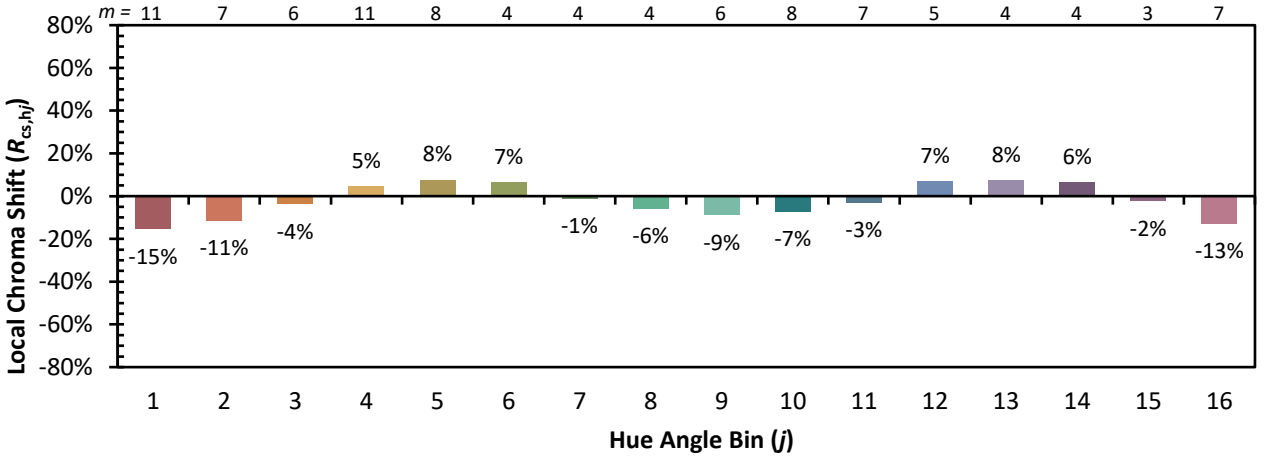
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

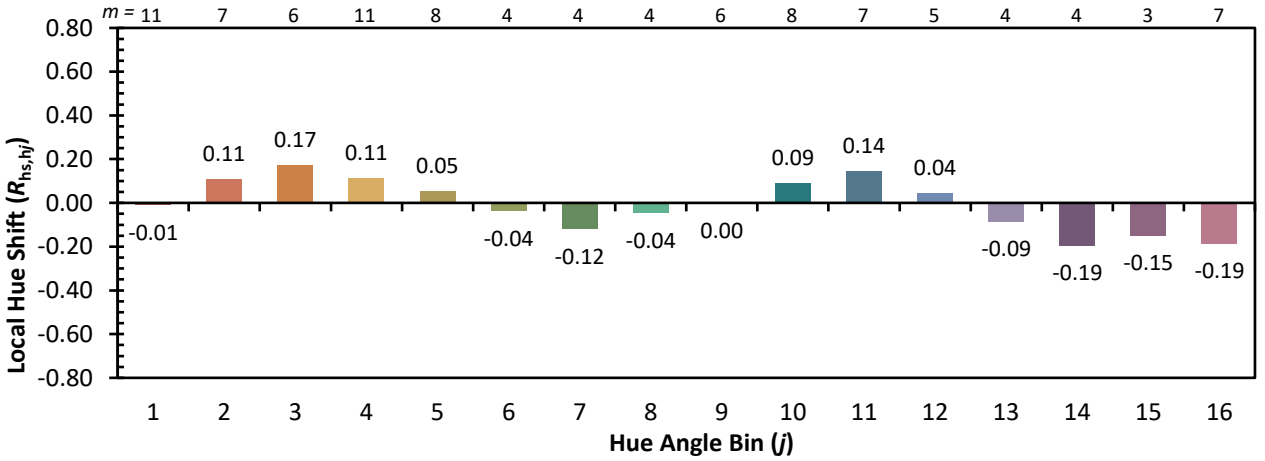


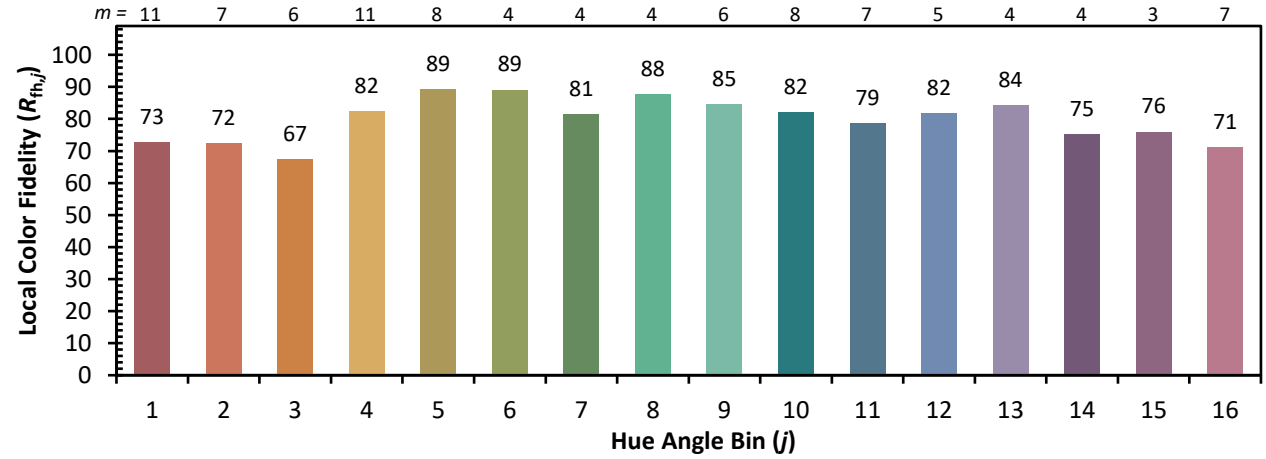
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Color Rendition by Hue-Angle Bin



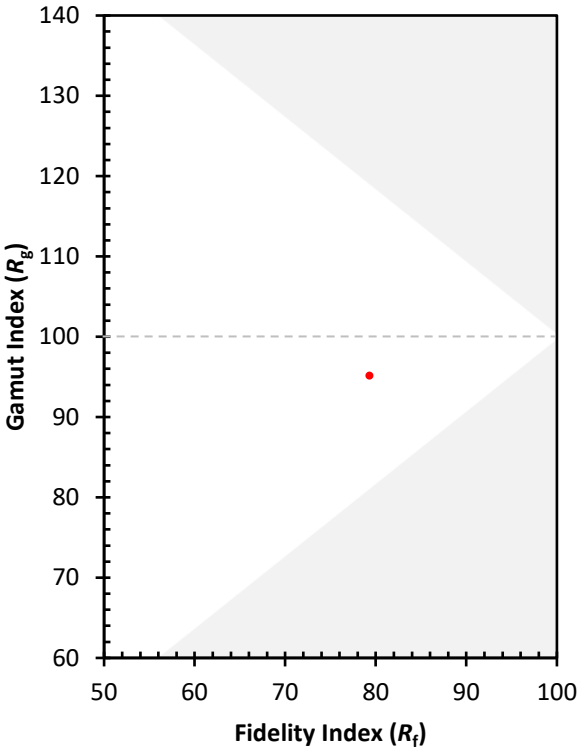


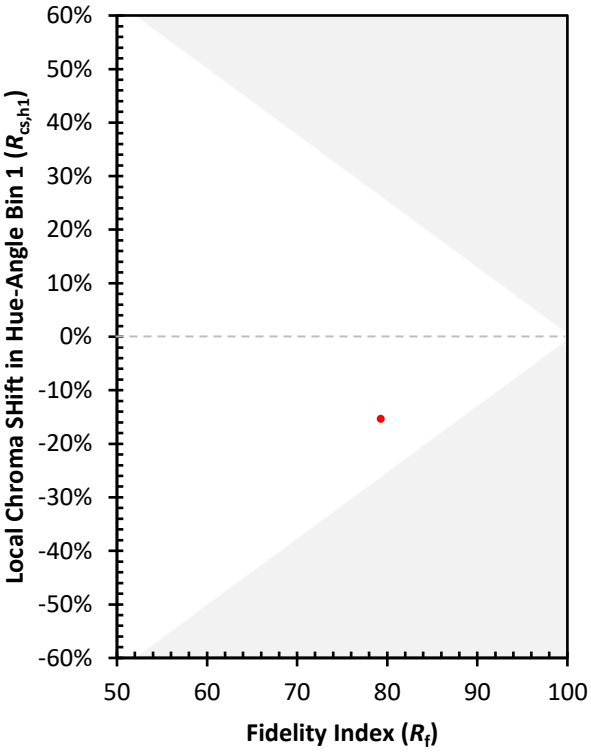


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Measure Comparisons





(END OF REPORT)