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: P981495

Luminaire Tested: **FFX-CLB-20-750-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981495
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-750-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3259.2 lumens
Efficiency:	N/A
Efficacy:	164.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U3 - G2

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

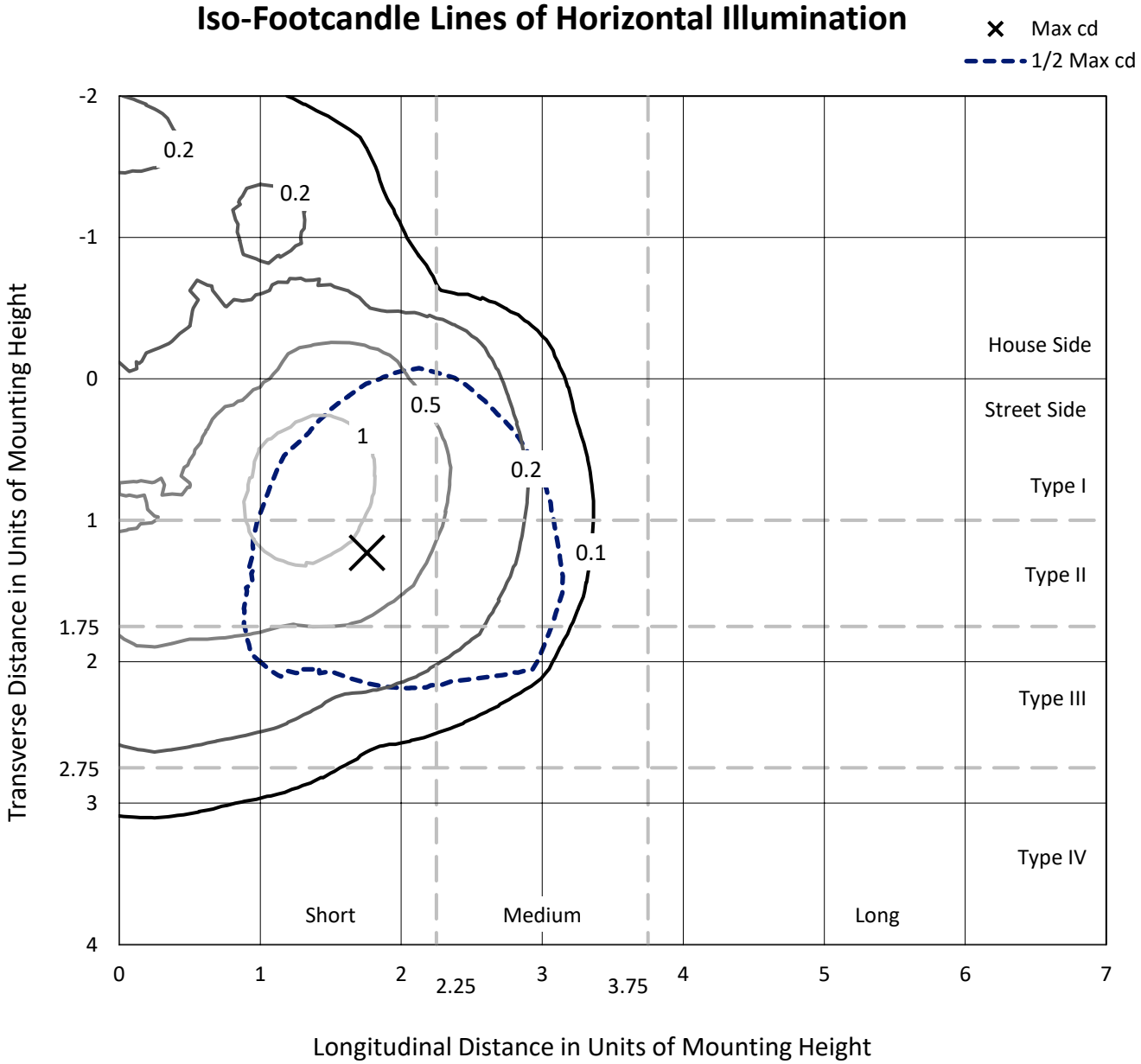


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Iso-Footcandle Lines of Horizontal Illumination



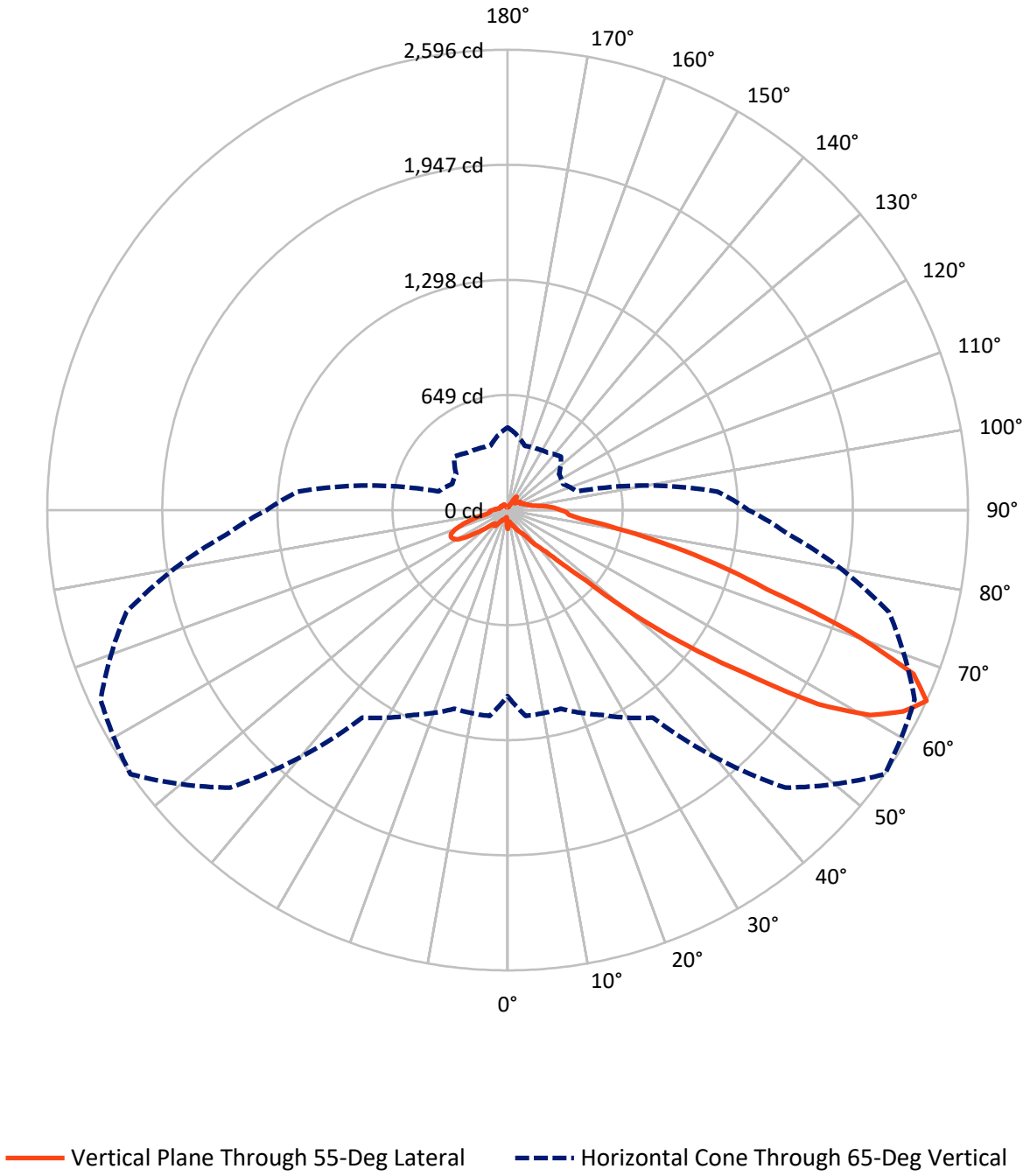
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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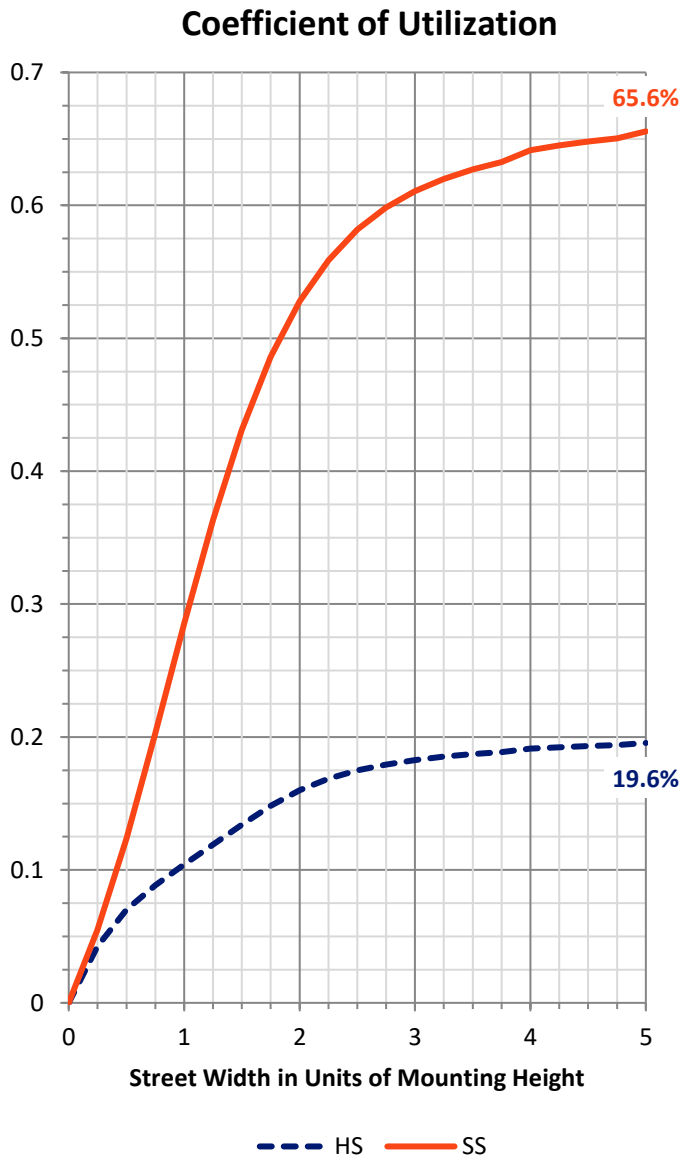
REPORT NUMBER: P981495
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	662.1	129.2	791.3
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	2209.3	258.5	2467.9
	% Fixture	67.8	7.9	75.7
Total	Lumens	2871.5	387.7	3259.2
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.2
10°-20°	19.9	0.6
20°-30°	40.7	1.3
30°-40°	88.3	2.7
40°-50°	214.4	6.6
50°-60°	669.4	20.5
60°-70°	1063.7	32.6
70°-80°	566.8	17.4
80°-90°	202.0	6.2
90°-100°	122.9	3.8
100°-110°	72.8	2.2
110°-120°	56.8	1.7
120°-130°	47.4	1.5
130°-140°	34.6	1.1
140°-150°	31.8	1.0
150°-160°	14.4	0.4
160°-170°	5.5	0.2
170°-180°	1.6	0.0
0°-90°	2871.5	88.1
0°-180°	3259.2	100.0



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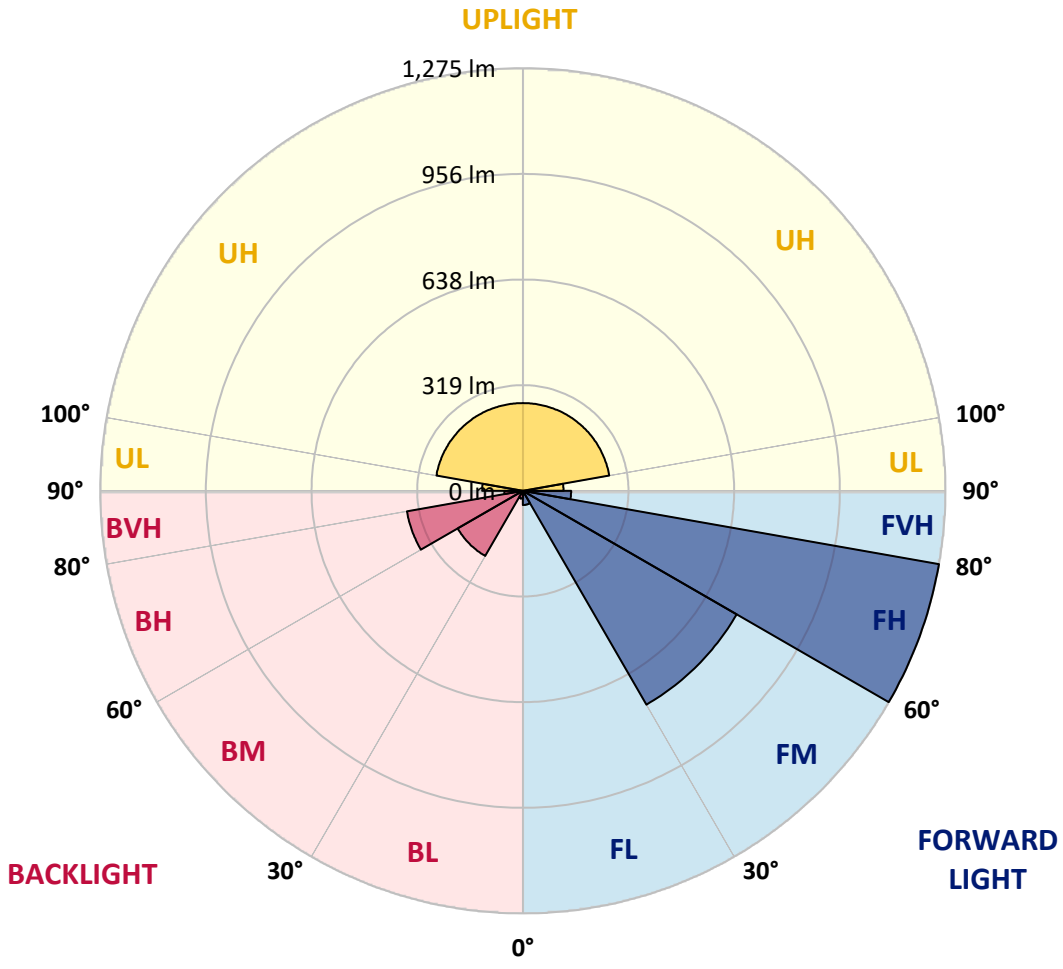
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	43.1	1.3			
FM	(30°-60°)	745.2	22.9			
FH	(60°-80°)	1275.3	39.1			G1/1800
FVH	(80°-90°)	145.7	4.5			G2/225
BL	(0°-30°)	23.7	0.7	B0/110		
BM	(30°-60°)	226.9	7.0	B1/1000		
BH	(60°-80°)	355.2	10.9	B1/500		G1/500
BVH	(80°-90°)	56.2	1.7			G1/100
UL	(90°-100°)	122.9	3.8		U3/500	
UH	(100°-180°)	264.9	8.1		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
2.5°	63.1	63.6	70.6	76.2	83.0	81.0	81.0	96.0	106.0	120.5	119.2
5°	67.6	64.7	66.0	70.9	80.1	84.6	79.7	63.1	52.3	56.7	62.0
7.5°	74.0	73.3	71.7	67.1	63.6	73.1	86.3	76.8	58.1	48.8	46.8
10°	75.7	75.9	75.5	75.9	77.7	73.5	66.0	60.0	58.3	57.4	56.7
12.5°	91.6	91.4	92.3	91.2	87.0	81.9	83.4	79.0	70.4	64.5	62.9
15°	106.8	106.4	106.2	102.0	95.1	87.0	83.0	85.0	79.5	72.6	69.5
17.5°	113.0	113.0	108.6	102.7	98.5	92.7	89.6	87.4	83.2	78.8	75.1
20°	110.6	110.4	106.0	103.5	104.0	101.3	98.7	95.4	91.2	84.1	79.5
22.5°	109.3	109.3	107.7	107.1	110.8	109.9	109.3	105.1	99.6	89.2	83.2
25°	117.9	117.2	115.2	115.2	118.8	121.6	122.7	119.4	110.4	94.7	89.2
27.5°	126.3	126.1	123.4	124.1	126.3	132.0	133.8	132.2	119.9	99.3	94.5
30°	136.4	134.9	132.7	136.7	136.2	144.2	146.6	148.4	132.7	108.8	103.1
32.5°	147.2	146.4	144.6	149.7	151.4	158.7	160.7	169.5	150.1	125.8	119.9
35°	165.6	164.9	169.5	179.5	179.3	192.9	187.6	200.9	182.6	156.5	150.6
37.5°	248.1	244.4	239.1	229.6	228.9	247.9	242.0	252.3	226.5	189.9	183.2
40°	258.3	257.6	255.2	244.4	238.2	270.7	274.6	305.3	262.7	220.8	208.0
42.5°	252.3	253.2	285.7	292.5	279.9	319.9	326.5	380.4	303.5	267.8	244.4
45°	304.2	305.5	316.1	321.0	320.1	420.6	436.9	502.9	375.1	333.8	290.5
47.5°	348.4	343.7	362.9	400.0	425.4	538.9	591.4	692.8	504.0	443.1	362.9
50°	478.6	477.5	523.9	564.5	589.7	775.3	937.1	1048.4	738.7	642.4	506.4
52.5°	566.9	604.4	648.8	742.9	765.6	1055.0	1274.0	1363.2	1020.8	843.8	691.4
55°	656.5	710.6	760.3	906.7	982.2	1370.7	1620.0	1644.5	1340.7	1025.9	872.5
57.5°	823.2	914.4	946.4	1063.2	1173.6	1734.5	2065.0	2039.0	1670.5	1237.2	1074.7
60°	974.0	1083.7	1074.5	1188.8	1330.8	2031.0	2347.6	2320.2	1972.3	1424.8	1230.1
62.5°	1024.6	1135.2	1122.6	1247.1	1428.6	2190.0	2501.7	2454.9	2169.9	1545.1	1316.2
65°	1048.2	1165.6	1159.4	1275.6	1428.6	2212.9	2595.5	2531.5	2225.1	1591.5	1357.7
67.5°	1027.4	1140.7	1144.7	1247.7	1344.4	2047.1	2467.5	2380.5	2086.9	1480.2	1283.5
70°	898.1	977.3	967.4	1060.8	1070.3	1638.7	2047.8	1953.1	1695.5	1234.3	1062.1
72.5°	742.0	761.2	753.0	812.0	823.0	1200.3	1530.5	1476.9	1266.1	918.4	811.5
75°	591.6	588.6	605.3	619.0	607.5	881.1	1212.0	1151.1	936.7	691.6	624.5
77.5°	409.3	385.7	429.8	434.0	415.9	585.9	894.1	870.9	671.3	509.7	460.3
80°	230.0	232.7	264.3	283.0	276.4	372.9	622.1	606.9	458.5	356.3	316.6
82.5°	177.5	185.4	200.2	214.4	205.1	285.2	420.8	421.9	335.3	260.3	237.8
85°	195.2	199.3	201.3	201.8	194.5	265.1	348.8	344.2	284.8	217.9	210.8
87.5°	190.3	194.7	195.4	195.6	189.2	252.6	330.3	323.0	271.5	209.3	198.5
90°	163.1	170.6	171.5	177.3	169.8	225.6	290.7	283.5	244.8	188.8	178.6
92.5°	140.2	144.2	148.4	155.2	147.2	196.5	260.3	251.2	219.2	170.6	156.7
95°	128.3	130.5	134.0	136.7	127.4	166.9	217.7	208.2	177.9	137.3	125.0
97.5°	103.1	105.1	106.6	109.9	103.5	132.2	168.9	160.1	139.5	109.3	100.0
100°	88.1	89.4	91.2	93.4	88.1	110.8	138.6	134.7	116.1	92.3	86.3
102.5°	80.6	81.7	84.8	84.8	81.5	101.3	123.8	120.8	104.4	83.7	79.7
105°	77.7	77.9	80.6	79.5	77.3	94.5	115.5	111.5	97.8	79.5	74.8
107.5°	74.0	74.2	77.5	75.7	74.0	87.6	104.6	102.9	90.5	74.2	70.2
110°	70.2	70.9	75.1	73.5	72.4	82.3	98.0	94.7	86.5	71.7	68.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	67.3	67.8	71.7	70.6	69.8	78.8	*91.0*	91.0	84.6	71.7	67.3
115°	64.9	65.8	69.1	66.9	65.3	74.2	*83.9*	84.3	79.0	68.4	64.0
117.5°	60.7	62.7	64.5	65.3	63.6	71.1	*79.7*	79.3	76.4	66.0	62.9
120°	69.1	67.6	68.9	70.4	67.6	73.5	*80.8*	80.8	77.9	64.9	62.3
122.5°	72.2	70.0	71.3	69.8	69.5	77.3	*86.3*	87.0	81.0	66.9	60.3
125°	64.0	63.1	61.6	61.2	62.9	70.2	*78.4*	81.2	74.8	64.0	56.3
127.5°	54.7	53.6	51.7	52.8	56.1	63.4	*67.6*	69.1	66.4	59.4	53.6
130°	50.6	50.3	51.9	53.9	56.5	62.7	*64.0*	66.2	66.2	57.8	54.5
132.5°	46.1	46.4	51.2	58.1	60.0	61.4	*58.5*	62.7	64.7	58.9	55.2
135°	45.5	45.7	48.3	53.9	54.1	55.0	*55.2*	60.5	61.8	56.3	52.1
137.5°	49.7	49.7	47.7	48.8	51.2	57.8	*60.0*	64.2	63.1	53.2	47.0
140°	54.7	53.6	47.5	47.7	51.9	60.0	*62.9*	65.6	64.2	52.1	44.8
142.5°	45.3	45.7	46.8	51.0	55.9	74.4	*72.0*	78.6	75.9	55.2	43.7
145°	70.6	70.9	69.5	71.3	74.4	98.9	*91.4*	102.0	105.1	72.2	51.9
147.5°	77.3	78.1	75.7	74.2	83.0	90.5	*82.1*	91.0	96.9	75.7	55.6
150°	60.3	60.0	58.5	60.7	66.7	66.2	*61.8*	64.9	67.3	57.8	47.7
152.5°	42.8	42.2	41.3	41.5	48.6	46.8	*45.5*	48.1	48.1	44.4	38.2
155°	35.5	35.5	35.1	36.2	40.2	37.1	*36.0*	35.5	35.1	34.0	31.6
157.5°	30.0	30.7	30.0	31.3	34.0	31.1	*30.5*	29.8	30.0	30.0	29.4
160°	24.9	24.9	24.5	26.7	27.6	25.4	*24.3*	23.8	23.8	25.2	25.2
162.5°	21.0	21.0	21.2	22.1	22.7	21.2	*20.5*	20.5	21.2	23.2	23.2
165°	18.1	18.1	18.3	19.0	19.4	18.5	*18.1*	18.3	20.1	21.9	21.9
167.5°	16.6	16.6	16.6	16.8	17.0	16.6	*16.6*	17.4	19.0	20.1	20.1
170°	15.7	15.7	15.5	15.7	15.7	15.7	*16.6*	17.4	18.1	18.1	18.1
172.5°	15.9	15.9	15.7	15.9	15.9	15.7	*16.8*	17.9	17.4	17.2	17.2
175°	16.3	16.3	16.3	16.6	16.6	16.1	*15.9*	16.3	16.8	16.8	16.6
177.5°	16.3	16.3	16.1	16.3	16.1	15.7	*15.5*	15.2	15.2	15.0	15.0
180°	15.2	15.2	15.2	15.2	15.2	15.2	*15.2*	15.2	15.2	15.2	15.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
2.5°	108.0	93.2	82.1	90.7	109.7	119.2	109.7	83.4	58.7	51.4
5°	64.7	62.9	56.7	55.4	57.8	55.6	61.8	58.5	46.4	46.8
7.5°	48.3	58.5	56.5	40.4	37.8	35.3	37.3	42.6	43.9	41.1
10°	56.1	50.6	44.2	41.1	44.8	48.3	45.9	40.0	34.4	32.9
12.5°	61.8	61.4	62.0	55.6	45.7	42.2	40.8	43.9	53.4	55.6
15°	66.4	61.4	56.7	55.4	48.8	45.3	43.5	42.6	40.8	39.5
17.5°	71.1	62.7	57.6	52.5	49.2	45.9	42.2	40.2	40.0	40.2
20°	74.2	66.4	60.5	54.7	50.6	46.1	42.4	40.6	40.6	40.6
22.5°	77.9	70.4	64.0	56.7	51.9	47.0	43.9	42.2	41.9	41.9
25°	84.1	75.7	68.2	60.3	55.0	50.6	46.4	44.2	43.5	43.3
27.5°	91.2	81.9	72.9	64.7	59.2	54.3	48.8	45.5	44.6	44.4
30°	100.2	89.6	78.1	69.5	62.7	58.1	51.4	47.5	45.7	45.5
32.5°	115.0	101.1	86.1	76.6	68.4	62.3	55.0	50.1	47.2	46.6
35°	143.5	126.5	104.0	90.3	77.3	67.6	58.1	51.7	48.8	48.3
37.5°	175.3	149.5	127.6	111.7	95.8	79.5	62.9	54.1	50.6	49.9
40°	189.0	164.5	141.3	116.3	112.8	100.0	77.3	60.0	53.0	51.9
42.5°	219.0	184.1	152.8	102.9	111.0	110.4	95.4	73.5	59.6	57.0
45°	257.9	209.5	170.0	109.9	111.9	108.0	97.8	85.0	72.4	69.5
47.5°	321.2	234.2	175.5	123.6	125.8	116.3	102.4	89.6	80.6	79.5
50°	458.7	306.9	195.8	149.7	156.7	134.9	117.7	106.6	95.8	93.8
52.5°	623.7	363.6	216.8	186.8	212.2	180.8	154.8	134.4	133.8	131.1
55°	797.4	385.5	244.6	227.6	267.1	240.0	214.6	196.0	205.5	206.4
57.5°	992.5	408.9	284.8	281.0	333.8	290.5	269.1	274.2	341.5	367.8
60°	1122.6	428.1	319.4	325.2	394.7	352.6	336.4	347.7	462.1	510.0
62.5°	1180.4	418.3	336.4	346.4	421.0	390.3	387.7	393.6	490.5	535.3
65°	*1188.4*	*404.0*	*345.7*	*354.3*	*425.6*	*394.3*	*383.0*	*374.6*	*439.1*	*465.4*
67.5°	1090.8	373.5	338.4	347.5	404.7	367.1	339.1	320.1	357.4	360.1
70°	887.7	333.6	313.7	317.0	345.7	307.3	280.8	264.5	273.1	269.6
72.5°	688.3	294.1	279.5	271.8	280.4	247.5	216.1	207.7	215.9	212.2
75°	523.0	262.7	246.6	220.5	234.7	190.5	155.6	148.1	151.7	146.6
77.5°	384.6	211.7	192.9	163.1	182.6	138.2	105.1	97.4	98.7	93.8
80°	280.6	156.5	141.1	117.0	131.6	98.2	75.9	74.6	74.4	71.3
82.5°	216.8	124.3	112.8	100.7	103.1	86.8	72.0	69.8	69.8	65.1
85°	201.1	120.3	108.6	100.0	100.7	84.1	68.4	67.1	67.8	62.9
87.5°	187.9	117.7	108.2	97.8	92.7	76.2	61.6	63.1	63.6	59.4
90°	161.2	104.6	96.0	86.1	80.1	64.7	55.2	58.1	58.5	54.7
92.5°	141.3	89.9	82.6	74.8	72.2	60.7	53.0	55.2	55.2	51.9
95°	112.6	73.5	70.2	66.4	65.8	56.7	49.5	50.6	50.1	47.2
97.5°	91.6	63.8	60.9	57.4	55.2	48.6	43.5	44.6	44.8	42.8
100°	80.6	58.9	55.0	51.0	48.8	43.7	39.7	41.7	43.0	41.3
102.5°	75.3	56.3	51.9	47.7	45.9	41.3	37.5	39.3	41.1	39.5
105°	71.5	54.3	49.7	45.9	43.7	39.1	35.3	35.8	38.0	37.1
107.5°	66.7	54.3	48.3	44.6	41.9	37.8	33.3	32.9	34.2	34.0
110°	64.9	54.3	47.5	43.7	40.8	37.1	33.1	31.3	32.0	32.0

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

Scaled Data Report

REPORT NUMBER: P981495
CATALOG NUMBER: FFX-CLB-20-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	63.4	53.9	46.6	42.2	39.7	36.6	32.7	30.0	30.7	31.1
115°	59.8	49.7	43.9	39.3	36.9	33.6	30.9	28.9	29.1	29.6
117.5°	57.8	45.9	42.6	38.4	36.6	34.7	32.2	28.5	28.5	28.9
120°	57.8	45.3	43.7	42.2	41.3	38.0	34.0	28.5	27.8	27.8
122.5°	57.0	50.3	47.7	44.2	41.7	37.3	32.5	27.8	27.4	27.4
125°	52.3	48.1	43.9	39.7	36.9	33.3	30.5	28.0	27.2	27.2
127.5°	49.9	43.3	39.3	36.0	34.0	32.2	30.5	28.0	26.9	26.7
130°	50.6	43.7	38.6	36.0	34.4	32.7	30.7	27.6	25.8	25.6
132.5°	51.0	42.2	37.3	35.1	34.0	32.7	30.0	26.0	24.1	24.1
135°	46.1	38.0	35.8	34.2	33.6	32.5	28.5	24.7	23.2	23.0
137.5°	41.9	36.9	35.3	33.8	32.7	31.1	28.0	24.3	22.3	22.1
140°	40.2	36.0	33.8	30.9	29.6	26.5	24.3	22.1	21.4	21.2
142.5°	38.2	33.8	31.1	28.7	28.0	26.9	25.6	22.1	19.9	19.9
145°	45.7	40.6	37.5	35.1	32.0	29.8	25.6	21.2	18.3	17.9
147.5°	47.9	43.3	40.2	36.9	31.1	26.3	21.6	18.5	17.4	17.0
150°	41.9	38.0	34.7	31.1	26.0	22.7	19.6	17.7	17.2	17.2
152.5°	33.3	31.1	27.6	25.2	21.9	19.9	18.1	17.0	16.6	16.6
155°	27.6	25.8	23.8	21.9	20.1	18.8	17.7	16.8	16.3	16.3
157.5°	26.7	24.1	22.3	20.5	19.4	18.1	17.2	16.3	16.1	15.9
160°	24.3	21.2	19.6	18.5	18.3	17.9	17.2	16.6	16.3	16.1
162.5°	22.5	19.4	18.3	17.7	18.3	18.8	18.3	17.4	16.8	16.6
165°	21.2	18.3	17.4	17.4	18.8	19.4	18.3	17.4	17.4	17.2
167.5°	19.6	18.8	17.7	17.4	18.5	19.9	20.1	18.5	17.9	17.7
170°	18.3	18.5	18.5	17.9	18.1	19.2	19.6	19.2	18.3	18.1
172.5°	17.4	17.9	18.8	18.3	18.3	18.8	19.2	18.8	18.1	17.9
175°	16.6	16.8	16.3	16.6	17.2	17.9	17.7	17.4	17.2	17.2
177.5°	15.0	15.0	15.2	15.2	15.5	16.1	16.3	16.3	16.8	16.8
180°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2

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: SP1-2501-332-5

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

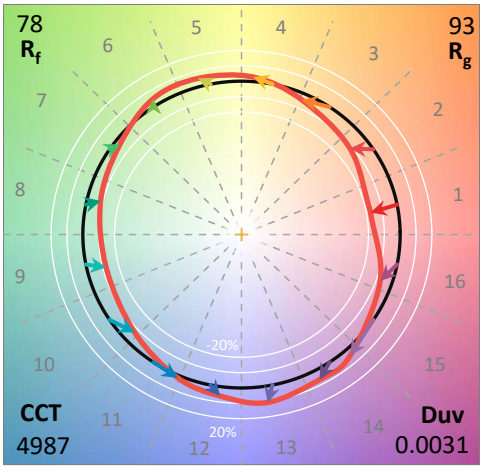
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
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-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	4987	CRI (Ra):	75.8		
CIE u':	0.2094	R1:	71.6	R9:	-30.4
CIE v':	0.4882	R2:	82.8	R10:	59.9
Duv:	0.0031	R3:	91.2	R11:	70.9
CIE x:	0.3461	R4:	73.8	R12:	51.2
CIE y:	0.3586	R5:	73.0	R13:	74.2
CIE z:	0.2954	R6:	76.1	R14:	95.3
Peak Wavelength (nm):	450	R7:	82.9	R15:	63.7
Dominant Wavelength (nm):	570	R8:	54.9		
Purity:	11.4				

Rf:	78.3
Rg:	93.4



Test Conditions

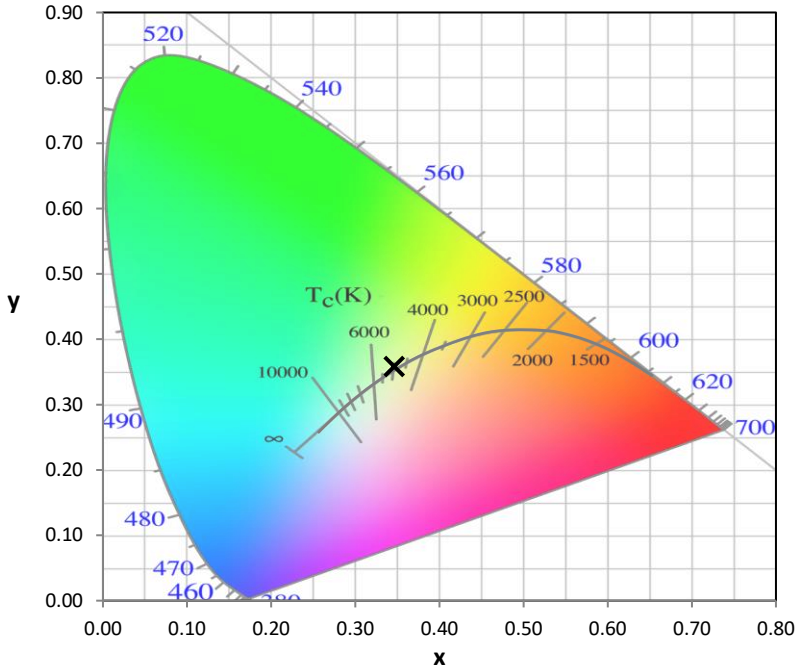
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

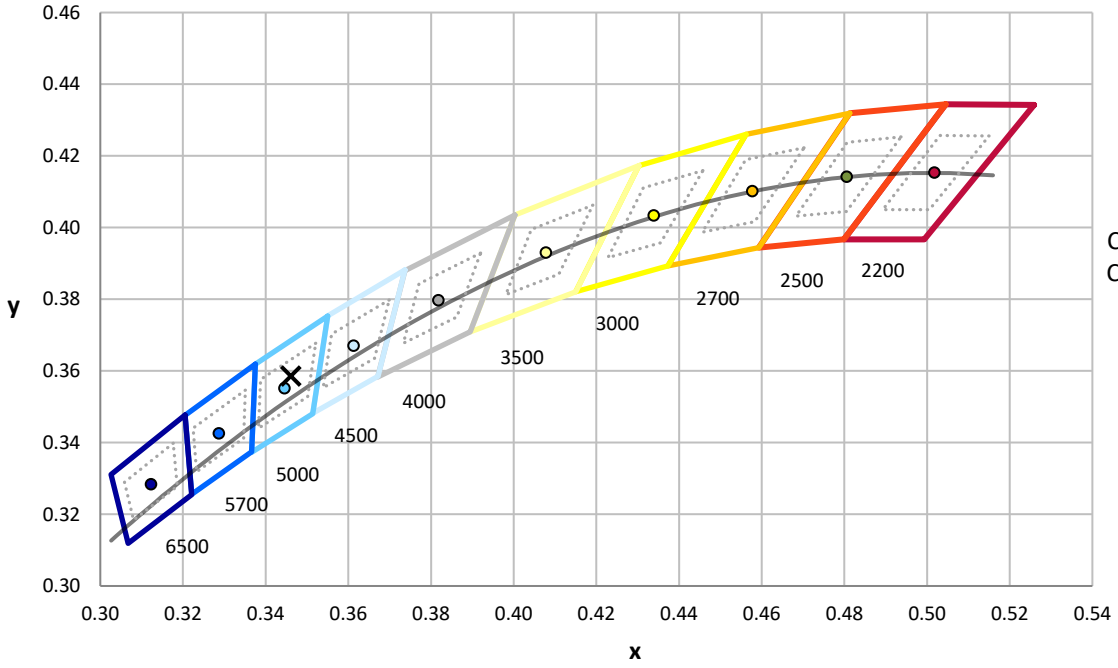
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

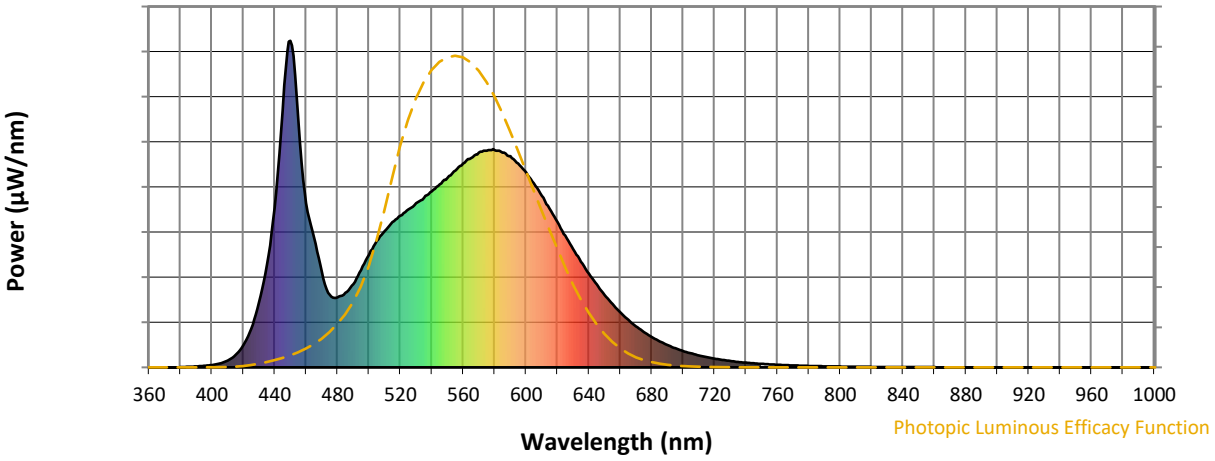


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

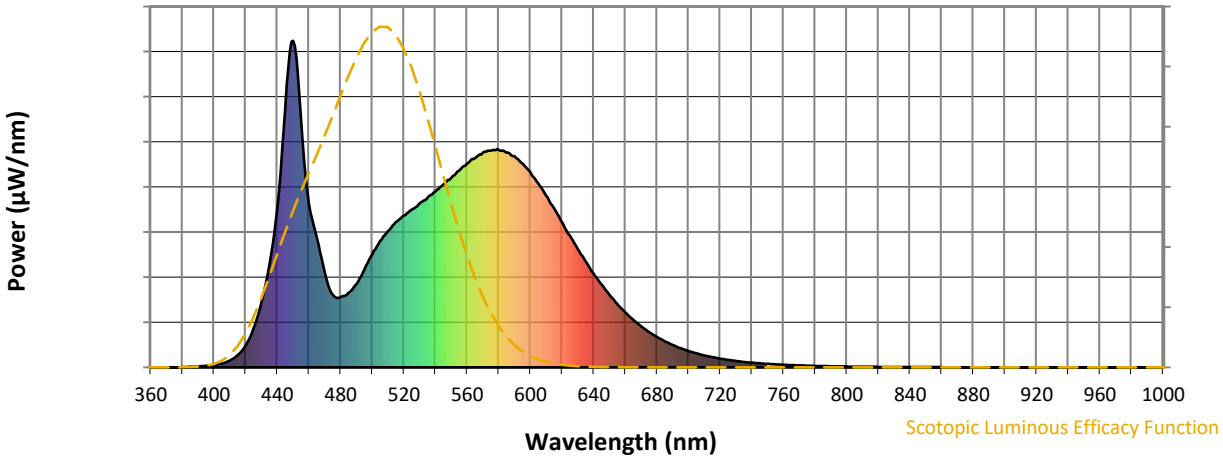


Photopic Lumens: NR

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

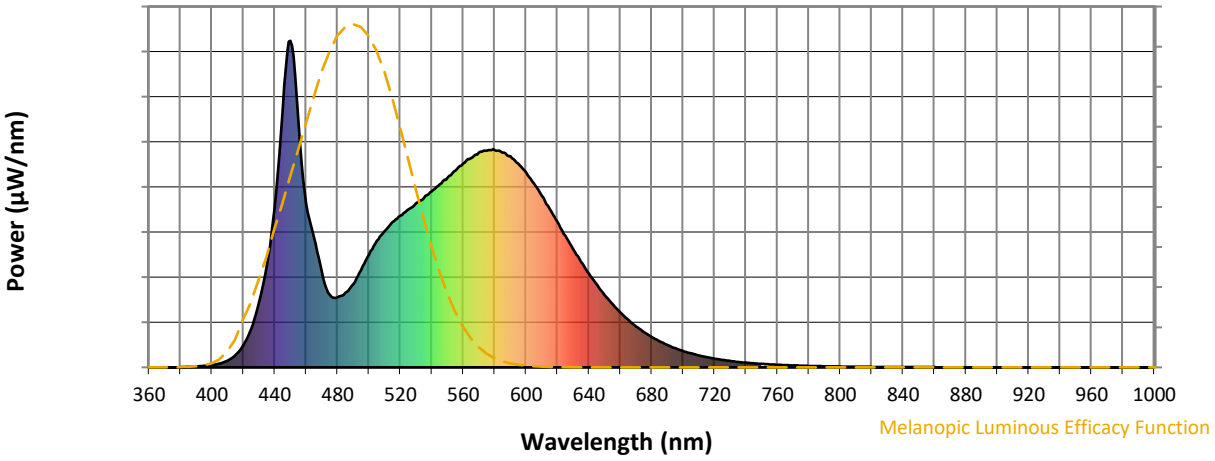


Scotopic Lumens: NR **S/P: 1.87**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.92**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

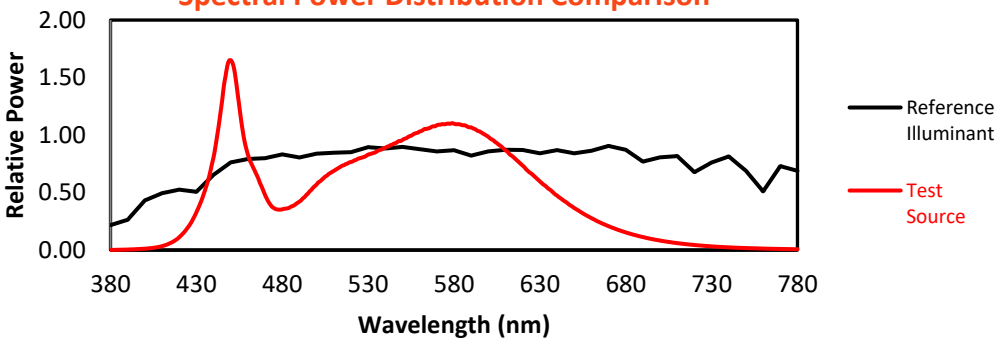
REPORT NUMBER: SP1-2501-332-5

TM-30-18

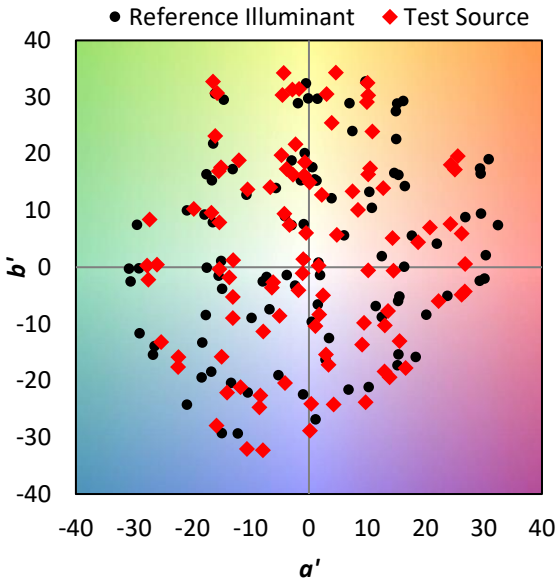
Summary

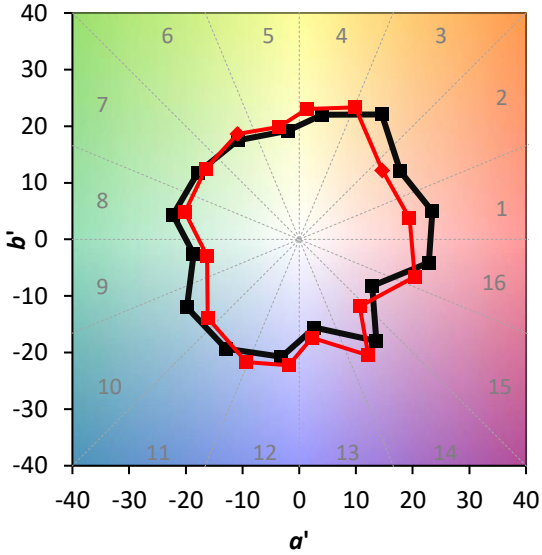
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

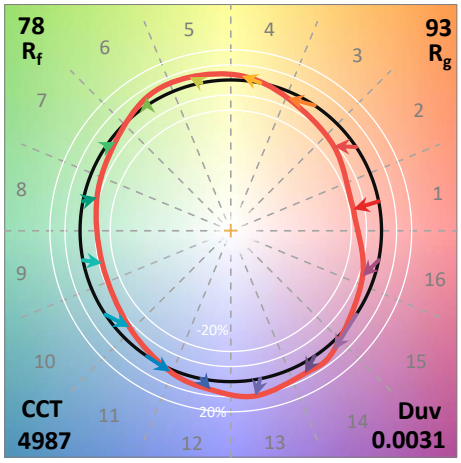
Spectral Power Distribution Comparison

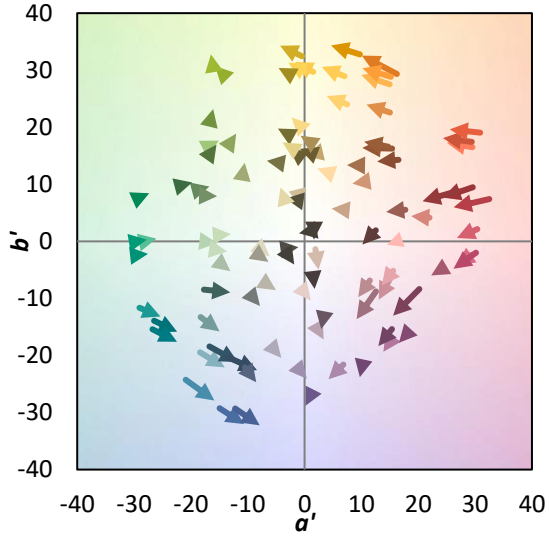


Color Vector Graphics







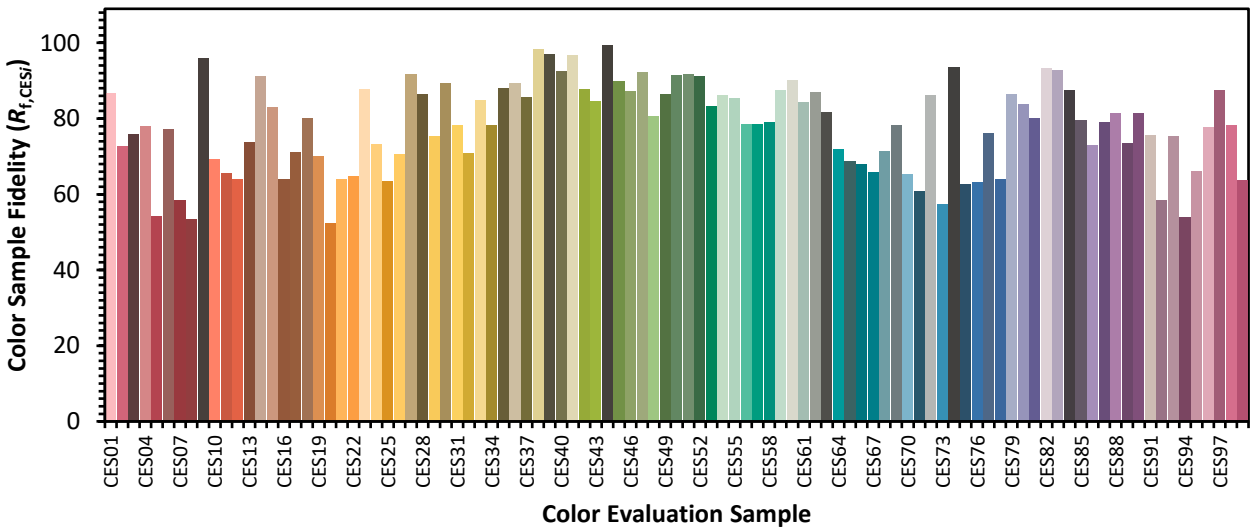


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

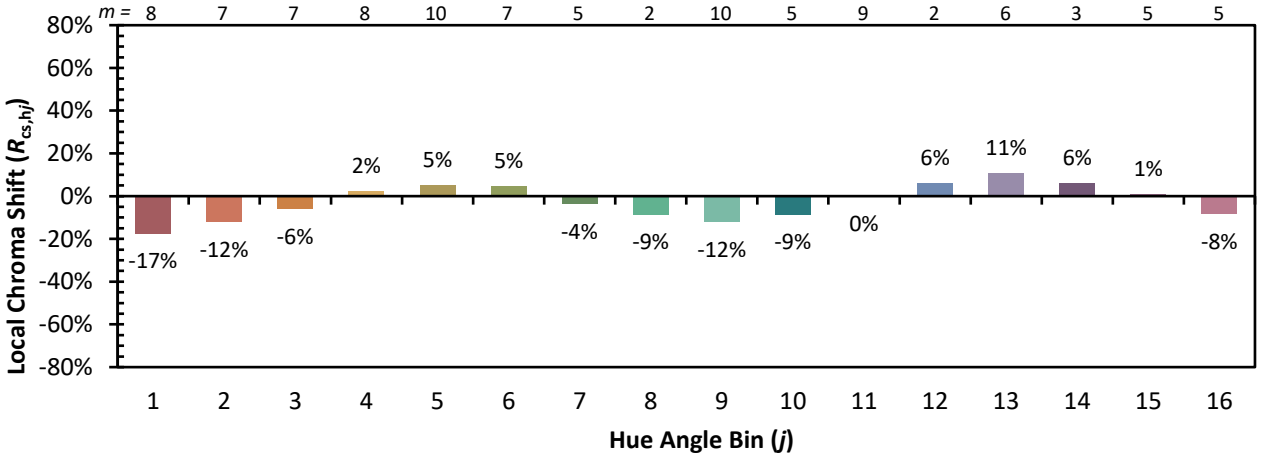
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 85	CES58 = 79	CES83 = 93
CES09 = 29	CES34 = 78	CES59 = 88	CES84 = 87
CES10 = 73	CES35 = 88	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 89	CES61 = 84	CES86 = 73
CES12 = 61	CES37 = 86	CES62 = 87	CES87 = 79
CES13 = 41	CES38 = 98	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 93	CES65 = 69	CES90 = 81
CES16 = 46	CES41 = 97	CES66 = 68	CES91 = 76
CES17 = 49	CES42 = 88	CES67 = 66	CES92 = 58
CES18 = 55	CES43 = 85	CES68 = 71	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 90	CES70 = 65	CES95 = 66
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 92	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 81	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 91	CES75 = 63	

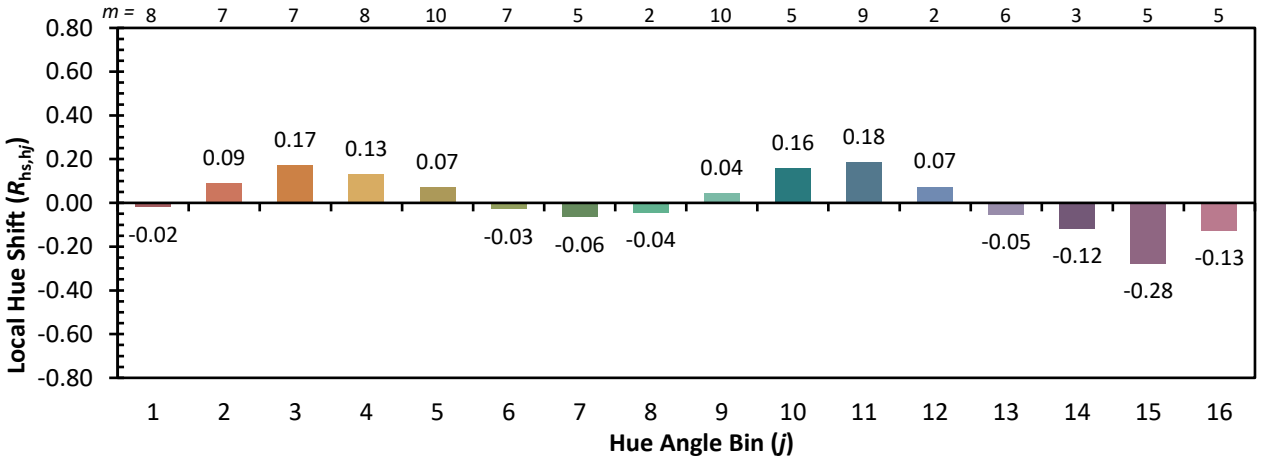


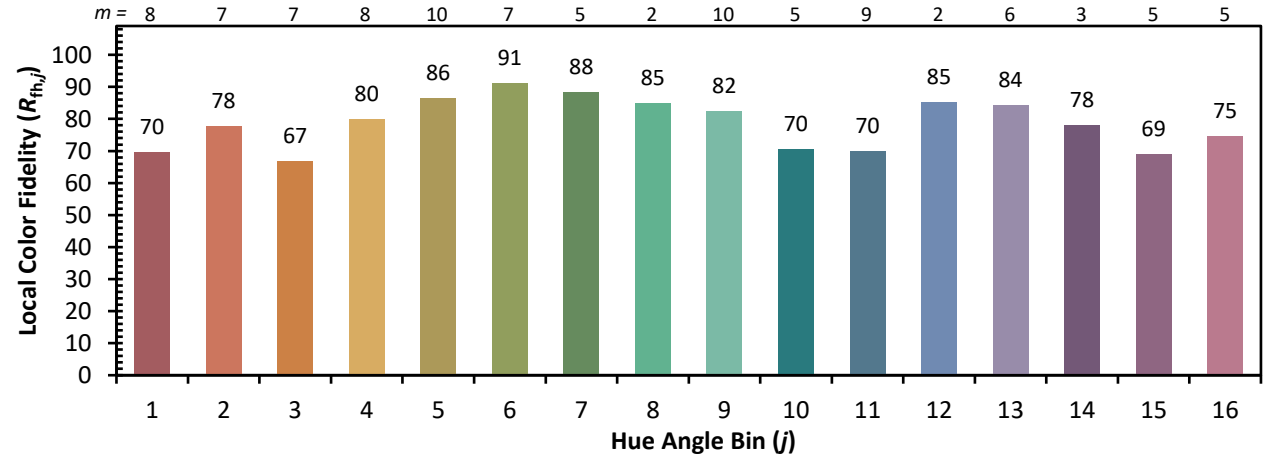
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



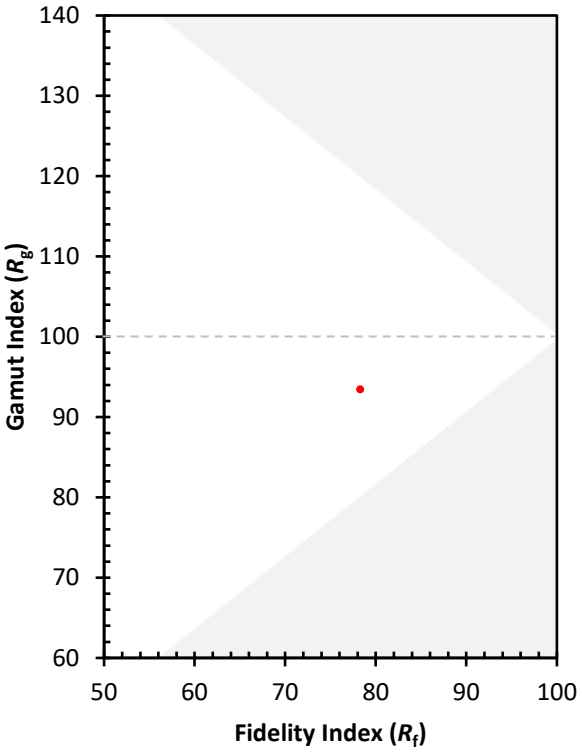


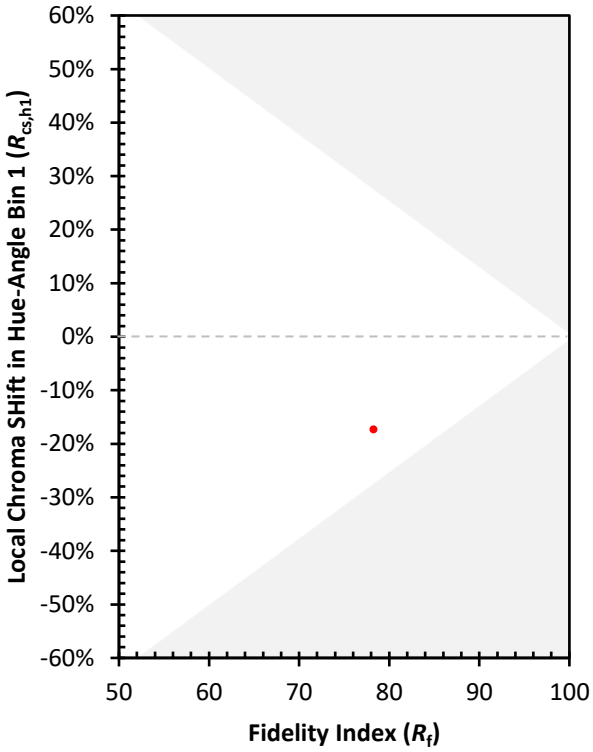


REPORT NUMBER: SP1-2501-332-5

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Measure Comparisons





(END OF REPORT)