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: P981494

Luminaire Tested: **FFX-CLB-30-750-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:	P981494
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-750-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:	4910.7 lumens
Efficiency:	N/A
Efficacy:	160.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - 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

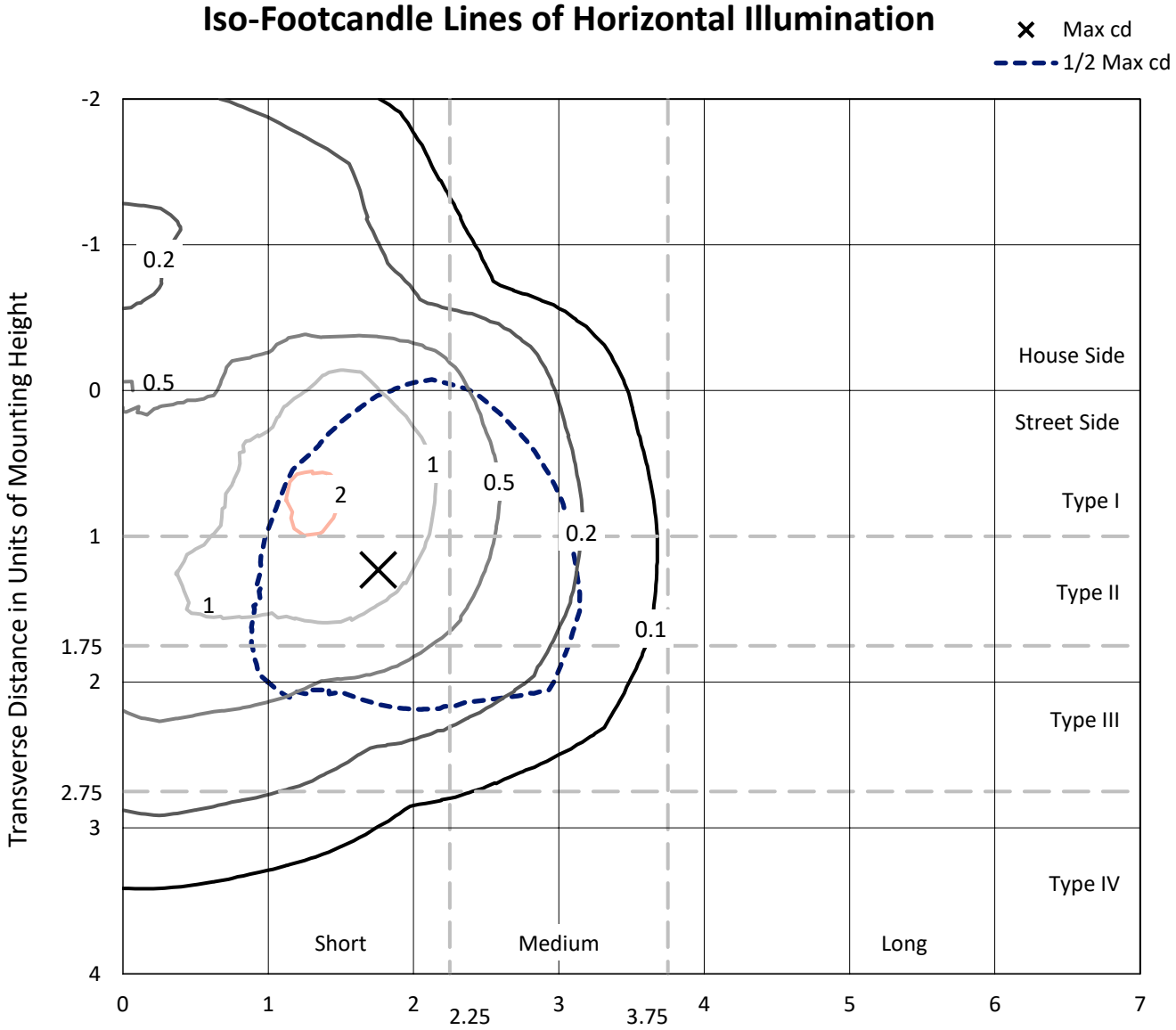


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Iso-Footcandle Lines of Horizontal Illumination



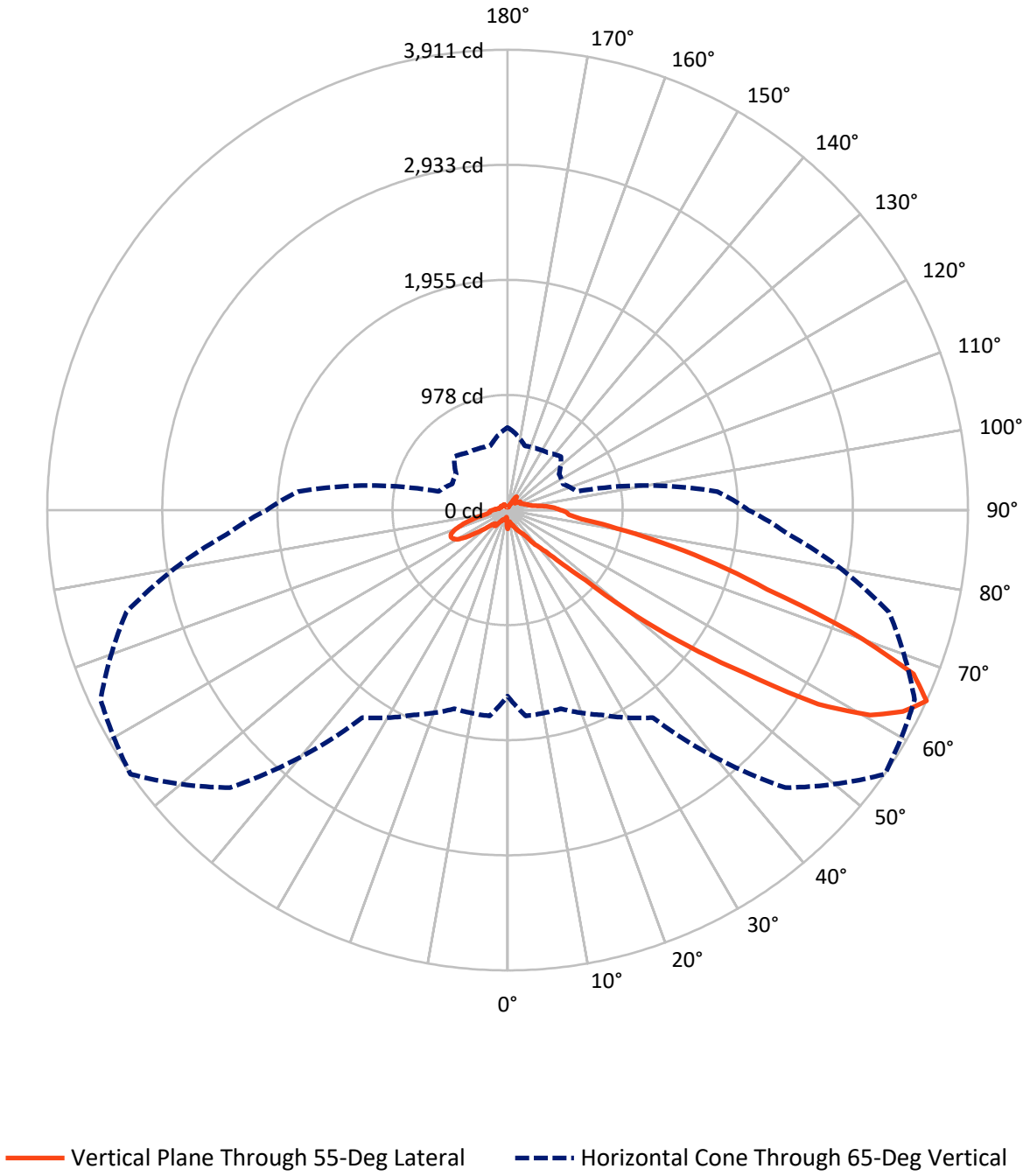
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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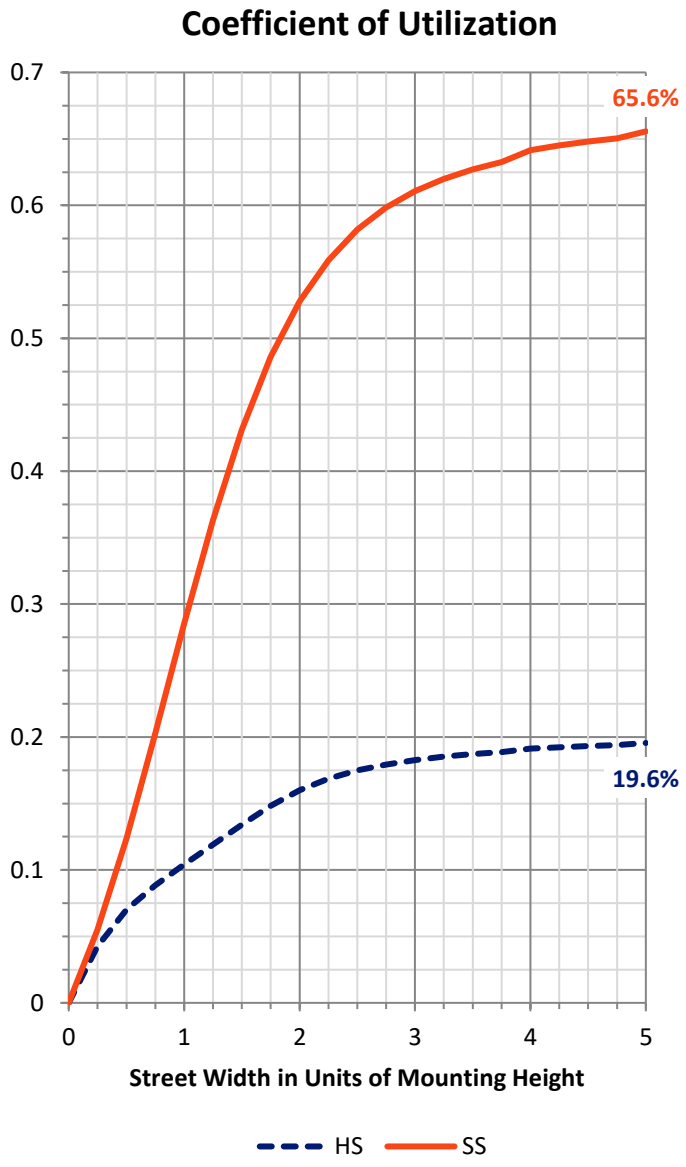
REPORT NUMBER: P981494
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	997.6	194.7	1192.3
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	3328.8	389.6	3718.4
	% Fixture	67.8	7.9	75.7
Total	Lumens	4326.4	584.2	4910.7
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.2
10°-20°	30.0	0.6
20°-30°	61.4	1.3
30°-40°	133.1	2.7
40°-50°	323.1	6.6
50°-60°	1008.6	20.5
60°-70°	1602.6	32.6
70°-80°	854.1	17.4
80°-90°	304.3	6.2
90°-100°	185.1	3.8
100°-110°	109.6	2.2
110°-120°	85.6	1.7
120°-130°	71.4	1.5
130°-140°	52.2	1.1
140°-150°	48.0	1.0
150°-160°	21.7	0.4
160°-170°	8.3	0.2
170°-180°	2.4	0.0
0°-90°	4326.4	88.1
0°-180°	4910.7	100.0



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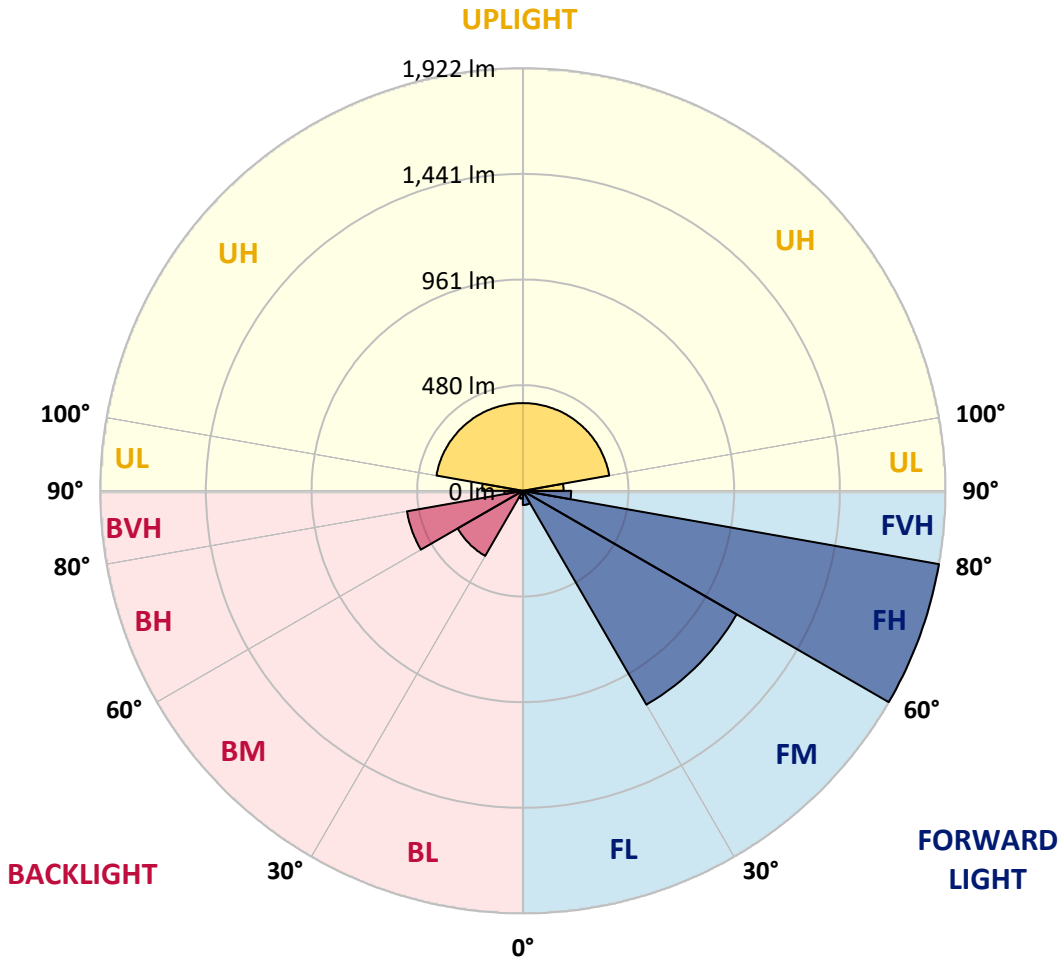
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	64.9	1.3			
FM	(30°-60°)	1122.8	22.9			
FH	(60°-80°)	1921.5	39.1			G2/5000
FVH	(80°-90°)	219.6	4.5			G2/225
BL	(0°-30°)	35.7	0.7	B0/110		
BM	(30°-60°)	341.9	7.0	B1/1000		
BH	(60°-80°)	535.2	10.9	B2/1000		G2/1000
BVH	(80°-90°)	84.7	1.7			G1/100
UL	(90°-100°)	185.1	3.8		U3/500	
UH	(100°-180°)	399.1	8.1		U3/500	

BUG Rating: B2-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3
2.5°	95.1	95.8	106.4	114.8	125.1	122.1	122.1	144.7	159.7	181.6	179.6
5°	101.8	97.5	99.5	106.8	120.7	127.4	120.1	95.1	78.8	85.5	93.5
7.5°	111.4	110.4	108.1	101.1	95.8	110.1	130.1	115.8	87.5	73.5	70.5
10°	114.1	114.4	113.8	114.4	117.1	110.8	99.5	90.5	87.8	86.5	85.5
12.5°	138.0	137.7	139.0	137.4	131.1	123.4	125.7	119.1	106.1	97.1	94.8
15°	161.0	160.3	160.0	153.7	143.4	131.1	125.1	128.1	119.7	109.4	104.8
17.5°	170.3	170.3	163.7	154.7	148.4	139.7	135.0	131.7	125.4	118.7	113.1
20°	166.6	166.3	159.7	156.0	156.7	152.7	148.7	143.7	137.4	126.7	119.7
22.5°	164.6	164.6	162.3	161.3	167.0	165.6	164.6	158.3	150.0	134.4	125.4
25°	177.6	176.6	173.6	173.6	179.0	183.3	184.9	180.0	166.3	142.7	134.4
27.5°	190.3	189.9	185.9	186.9	190.3	198.9	201.6	199.2	180.6	149.7	142.4
30°	205.6	203.2	199.9	205.9	205.2	217.2	220.9	223.5	199.9	164.0	155.3
32.5°	221.9	220.5	217.9	225.5	228.2	239.2	242.2	255.5	226.2	189.6	180.6
35°	249.5	248.5	255.5	270.4	270.1	290.7	282.7	302.7	275.1	235.8	226.9
37.5°	373.9	368.2	360.2	345.9	344.9	373.5	364.6	380.2	341.3	286.1	276.1
40°	389.2	388.2	384.5	368.2	358.9	407.8	413.8	460.0	395.8	332.6	313.3
42.5°	380.2	381.5	430.4	440.7	421.8	482.0	492.0	573.1	457.4	403.5	368.2
45°	458.4	460.4	476.3	483.6	482.3	633.7	658.3	757.7	565.1	502.9	437.7
47.5°	524.9	517.9	546.8	602.7	641.0	811.9	891.1	1043.8	759.4	667.6	546.8
50°	721.1	719.5	789.3	850.5	888.4	1168.2	1412.0	1579.6	1113.0	967.9	763.0
52.5°	854.2	910.7	977.6	1119.3	1153.5	1589.6	1919.6	2054.0	1538.1	1271.3	1041.8
55°	989.2	1070.7	1145.6	1366.1	1479.8	2065.3	2440.8	2477.7	2020.0	1545.7	1314.5
57.5°	1240.4	1377.7	1426.0	1601.9	1768.2	2613.4	3111.4	3072.1	2517.0	1864.0	1619.2
60°	1467.5	1632.9	1618.9	1791.2	2005.1	3060.2	3537.1	3495.9	2971.7	2146.8	1853.4
62.5°	1543.7	1710.4	1691.4	1879.0	2152.4	3299.6	3769.3	3698.8	3269.4	2328.0	1983.1
65°	1579.3	1756.3	1746.9	1921.9	2152.4	3334.2	3910.7	3814.2	3352.5	2397.9	2045.6
67.5°	1548.0	1718.7	1724.7	1880.0	2025.7	3084.4	3717.8	3586.7	3144.3	2230.3	1933.9
70°	1353.1	1472.5	1457.6	1598.3	1612.6	2469.1	3085.4	2942.7	2554.6	1859.7	1600.3
72.5°	1118.0	1146.9	1134.6	1223.4	1240.0	1808.5	2306.1	2225.3	1907.6	1383.7	1222.7
75°	891.4	886.8	912.1	932.7	915.4	1327.5	1826.1	1734.3	1411.3	1042.1	941.0
77.5°	616.7	581.1	647.6	653.9	626.7	882.8	1347.1	1312.2	1011.5	768.0	693.5
80°	346.6	350.6	398.2	426.4	416.4	561.8	937.3	914.4	690.9	536.9	477.0
82.5°	267.4	279.4	301.7	323.0	309.0	429.8	634.0	635.6	505.3	392.2	358.2
85°	294.0	300.4	303.4	304.0	293.0	399.5	525.5	518.6	429.1	328.3	317.7
87.5°	286.7	293.4	294.4	294.7	285.1	380.5	497.6	486.6	409.1	315.3	299.0
90°	245.8	257.1	258.4	267.1	255.8	339.9	438.1	427.1	368.9	284.4	269.1
92.5°	211.2	217.2	223.5	233.8	221.9	296.0	392.2	378.5	330.3	257.1	236.2
95°	193.3	196.6	201.9	205.9	191.9	251.5	328.0	313.7	268.1	206.9	188.3
97.5°	155.3	158.3	160.7	165.6	156.0	199.2	254.5	241.2	210.2	164.6	150.7
100°	132.7	134.7	137.4	140.7	132.7	167.0	208.9	202.9	175.0	139.0	130.1
102.5°	121.4	123.1	127.7	127.7	122.7	152.7	186.6	181.9	157.3	126.1	120.1
105°	117.1	117.4	121.4	119.7	116.4	142.4	174.0	168.0	147.4	119.7	112.8
107.5°	111.4	111.8	116.8	114.1	111.4	132.1	157.7	155.0	136.4	111.8	105.8
110°	105.8	106.8	113.1	110.8	109.1	124.1	147.7	142.7	130.4	108.1	103.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	101.5	102.1	108.1	106.4	105.1	118.7	*137.0*	137.0	127.4	108.1	101.5
115°	97.8	99.1	104.1	100.8	98.5	111.8	*126.4*	127.1	119.1	103.1	96.5
117.5°	91.5	94.5	97.1	98.5	95.8	107.1	*120.1*	119.4	115.1	99.5	94.8
120°	104.1	101.8	103.8	106.1	101.8	110.8	*121.7*	121.7	117.4	97.8	93.8
122.5°	108.8	105.4	107.4	105.1	104.8	116.4	*130.1*	131.1	122.1	100.8	90.8
125°	96.5	95.1	92.8	92.1	94.8	105.8	*118.1*	122.4	112.8	96.5	84.8
127.5°	82.5	80.8	77.8	79.5	84.5	95.5	*101.8*	104.1	100.1	89.5	80.8
130°	76.2	75.8	78.2	81.2	85.2	94.5	*96.5*	99.8	99.8	87.1	82.2
132.5°	69.5	69.9	77.2	87.5	90.5	92.5	*88.1*	94.5	97.5	88.8	83.2
135°	68.5	68.9	72.8	81.2	81.5	82.8	*83.2*	91.1	93.1	84.8	78.5
137.5°	74.8	74.8	71.8	73.5	77.2	87.1	*90.5*	96.8	95.1	80.2	70.8
140°	82.5	80.8	71.5	71.8	78.2	90.5	*94.8*	98.8	96.8	78.5	67.5
142.5°	68.2	68.9	70.5	76.8	84.2	112.1	*108.4*	118.4	114.4	83.2	65.9
145°	106.4	106.8	104.8	107.4	112.1	149.0	*137.7*	153.7	158.3	108.8	78.2
147.5°	116.4	117.7	114.1	111.8	125.1	136.4	*123.7*	137.0	146.0	114.1	83.8
150°	90.8	90.5	88.1	91.5	100.5	99.8	*93.1*	97.8	101.5	87.1	71.8
152.5°	64.5	63.5	62.2	62.5	73.2	70.5	*68.5*	72.5	72.5	66.9	57.5
155°	53.6	53.6	52.9	54.6	60.5	55.9	*54.2*	53.6	52.9	51.2	47.6
157.5°	45.2	46.2	45.2	47.2	51.2	46.9	*45.9*	44.9	45.2	45.2	44.2
160°	37.6	37.6	36.9	40.2	41.6	38.3	*36.6*	35.9	35.9	37.9	37.9
162.5°	31.6	31.6	31.9	33.3	34.3	31.9	*30.9*	30.9	31.9	34.9	34.9
165°	27.3	27.3	27.6	28.6	29.3	27.9	*27.3*	27.6	30.3	32.9	32.9
167.5°	24.9	24.9	24.9	25.3	25.6	24.9	*24.9*	26.3	28.6	30.3	30.3
170°	23.6	23.6	23.3	23.6	23.6	23.6	*24.9*	26.3	27.3	27.3	27.3
172.5°	23.9	23.9	23.6	23.9	23.9	23.6	*25.3*	26.9	26.3	25.9	25.9
175°	24.6	24.6	24.6	24.9	24.9	24.3	*23.9*	24.6	25.3	25.3	24.9
177.5°	24.6	24.6	24.3	24.6	24.3	23.6	*23.3*	23.0	23.0	22.6	22.6
180°	23.0	23.0	23.0	23.0	23.0	23.0	*23.0*	23.0	23.0	23.0	23.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3
2.5°	162.7	140.4	123.7	136.7	165.3	179.6	165.3	125.7	88.5	77.5
5°	97.5	94.8	85.5	83.5	87.1	83.8	93.1	88.1	69.9	70.5
7.5°	72.8	88.1	85.2	60.9	56.9	53.2	56.2	64.2	66.2	61.9
10°	84.5	76.2	66.5	61.9	67.5	72.8	69.2	60.2	51.9	49.6
12.5°	93.1	92.5	93.5	83.8	68.9	63.5	61.5	66.2	80.5	83.8
15°	100.1	92.5	85.5	83.5	73.5	68.2	65.5	64.2	61.5	59.5
17.5°	107.1	94.5	86.8	79.2	74.2	69.2	63.5	60.5	60.2	60.5
20°	111.8	100.1	91.1	82.5	76.2	69.5	63.9	61.2	61.2	61.2
22.5°	117.4	106.1	96.5	85.5	78.2	70.8	66.2	63.5	63.2	63.2
25°	126.7	114.1	102.8	90.8	82.8	76.2	69.9	66.5	65.5	65.2
27.5°	137.4	123.4	109.8	97.5	89.1	81.8	73.5	68.5	67.2	66.9
30°	151.0	135.0	117.7	104.8	94.5	87.5	77.5	71.5	68.9	68.5
32.5°	173.3	152.3	129.7	115.4	103.1	93.8	82.8	75.5	71.2	70.2
35°	216.2	190.6	156.7	136.0	116.4	101.8	87.5	77.8	73.5	72.8
37.5°	264.1	225.2	192.3	168.3	144.4	119.7	94.8	81.5	76.2	75.2
40°	284.7	247.8	212.9	175.3	170.0	150.7	116.4	90.5	79.8	78.2
42.5°	330.0	277.4	230.2	155.0	167.3	166.3	143.7	110.8	89.8	85.8
45°	388.5	315.7	256.1	165.6	168.6	162.7	147.4	128.1	109.1	104.8
47.5°	484.0	352.9	264.4	186.3	189.6	175.3	154.3	135.0	121.4	119.7
50°	691.2	462.3	295.0	225.5	236.2	203.2	177.3	160.7	144.4	141.4
52.5°	939.7	547.8	326.6	281.4	319.7	272.4	233.2	202.6	201.6	197.6
55°	1201.4	580.8	368.5	342.9	402.5	361.6	323.3	295.4	309.7	311.0
57.5°	1495.5	616.0	429.1	423.4	502.9	437.7	405.5	413.1	514.6	554.2
60°	1691.4	645.0	481.3	490.0	594.7	531.2	506.9	523.9	696.2	768.4
62.5°	1778.5	630.3	506.9	521.9	634.3	588.1	584.1	593.1	739.1	806.6
65°	*1790.5*	*608.7*	*520.9*	*533.9*	*641.3*	*594.1*	*577.1*	*564.5*	*661.6*	*701.2*
67.5°	1643.5	562.8	509.9	523.6	609.7	553.2	510.9	482.3	538.5	542.5
70°	1337.5	502.6	472.7	477.6	520.9	463.0	423.1	398.5	411.5	406.1
72.5°	1037.1	443.1	421.1	409.5	422.4	372.9	325.6	313.0	325.3	319.7
75°	788.0	395.8	371.5	332.3	353.6	287.1	234.5	223.2	228.5	220.9
77.5°	579.4	319.0	290.7	245.8	275.1	208.2	158.3	146.7	148.7	141.4
80°	422.8	235.8	212.5	176.3	198.2	148.0	114.4	112.4	112.1	107.4
82.5°	326.6	187.3	170.0	151.7	155.3	130.7	108.4	105.1	105.1	98.1
85°	303.0	181.3	163.7	150.7	151.7	126.7	103.1	101.1	102.1	94.8
87.5°	283.1	177.3	163.0	147.4	139.7	114.8	92.8	95.1	95.8	89.5
90°	242.8	157.7	144.7	129.7	120.7	97.5	83.2	87.5	88.1	82.5
92.5°	212.9	135.4	124.4	112.8	108.8	91.5	79.8	83.2	83.2	78.2
95°	169.6	110.8	105.8	100.1	99.1	85.5	74.5	76.2	75.5	71.2
97.5°	138.0	96.1	91.8	86.5	83.2	73.2	65.5	67.2	67.5	64.5
100°	121.4	88.8	82.8	76.8	73.5	65.9	59.9	62.9	64.9	62.2
102.5°	113.4	84.8	78.2	71.8	69.2	62.2	56.5	59.2	61.9	59.5
105°	107.8	81.8	74.8	69.2	65.9	58.9	53.2	53.9	57.2	55.9
107.5°	100.5	81.8	72.8	67.2	63.2	56.9	50.2	49.6	51.6	51.2
110°	97.8	81.8	71.5	65.9	61.5	55.9	49.9	47.2	48.2	48.2

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

Scaled Data Report

REPORT NUMBER: P981494
CATALOG NUMBER: FFX-CLB-30-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	95.5	81.2	70.2	63.5	59.9	55.2	49.2	45.2	46.2	46.9
115°	90.1	74.8	66.2	59.2	55.5	50.6	46.6	43.6	43.9	44.6
117.5°	87.1	69.2	64.2	57.9	55.2	52.2	48.6	42.9	42.9	43.6
120°	87.1	68.2	65.9	63.5	62.2	57.2	51.2	42.9	41.9	41.9
122.5°	85.8	75.8	71.8	66.5	62.9	56.2	48.9	41.9	41.2	41.2
125°	78.8	72.5	66.2	59.9	55.5	50.2	45.9	42.2	40.9	40.9
127.5°	75.2	65.2	59.2	54.2	51.2	48.6	45.9	42.2	40.6	40.2
130°	76.2	65.9	58.2	54.2	51.9	49.2	46.2	41.6	38.9	38.6
132.5°	76.8	63.5	56.2	52.9	51.2	49.2	45.2	39.2	36.3	36.3
135°	69.5	57.2	53.9	51.6	50.6	48.9	42.9	37.3	34.9	34.6
137.5°	63.2	55.5	53.2	50.9	49.2	46.9	42.2	36.6	33.6	33.3
140°	60.5	54.2	50.9	46.6	44.6	39.9	36.6	33.3	32.3	31.9
142.5°	57.5	50.9	46.9	43.2	42.2	40.6	38.6	33.3	29.9	29.9
145°	68.9	61.2	56.5	52.9	48.2	44.9	38.6	31.9	27.6	26.9
147.5°	72.2	65.2	60.5	55.5	46.9	39.6	32.6	27.9	26.3	25.6
150°	63.2	57.2	52.2	46.9	39.2	34.3	29.6	26.6	25.9	25.9
152.5°	50.2	46.9	41.6	37.9	32.9	29.9	27.3	25.6	24.9	24.9
155°	41.6	38.9	35.9	32.9	30.3	28.3	26.6	25.3	24.6	24.6
157.5°	40.2	36.3	33.6	30.9	29.3	27.3	25.9	24.6	24.3	23.9
160°	36.6	31.9	29.6	27.9	27.6	26.9	25.9	24.9	24.6	24.3
162.5°	33.9	29.3	27.6	26.6	27.6	28.3	27.6	26.3	25.3	24.9
165°	31.9	27.6	26.3	26.3	28.3	29.3	27.6	26.3	26.3	25.9
167.5°	29.6	28.3	26.6	26.3	27.9	29.9	30.3	27.9	26.9	26.6
170°	27.6	27.9	27.9	26.9	27.3	28.9	29.6	28.9	27.6	27.3
172.5°	26.3	26.9	28.3	27.6	27.6	28.3	28.9	28.3	27.3	26.9
175°	24.9	25.3	24.6	24.9	25.9	26.9	26.6	26.3	25.9	25.9
177.5°	22.6	22.6	23.0	23.0	23.3	24.3	24.6	24.6	25.3	25.3
180°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0

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: SP1-2501-332-5

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

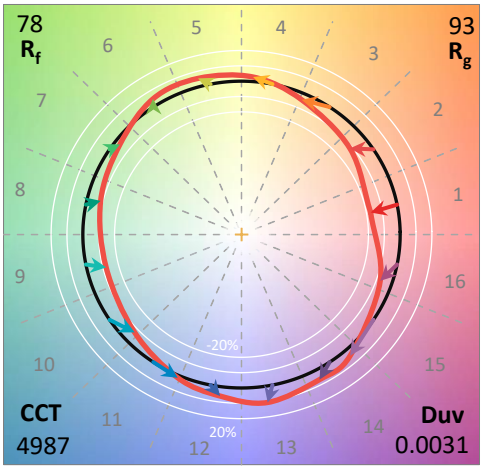
Test Information

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

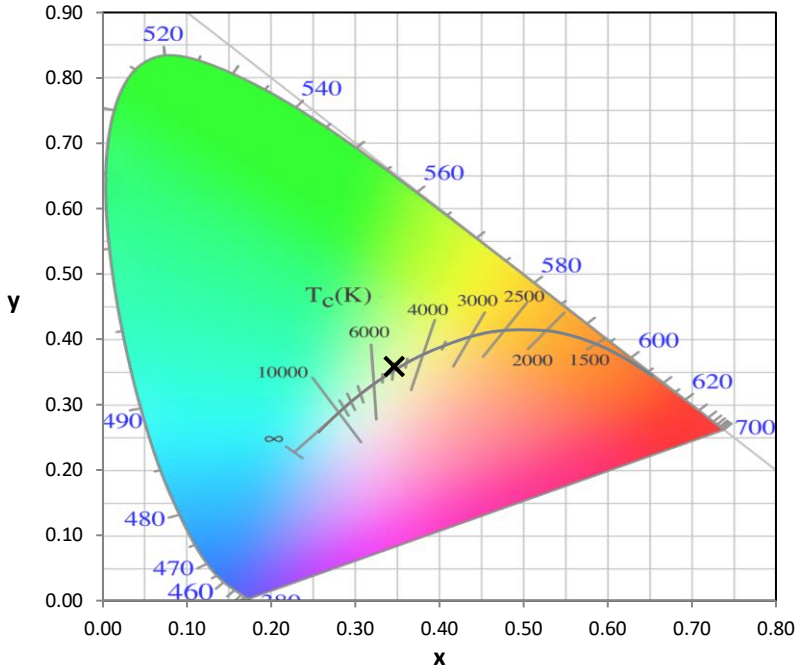
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

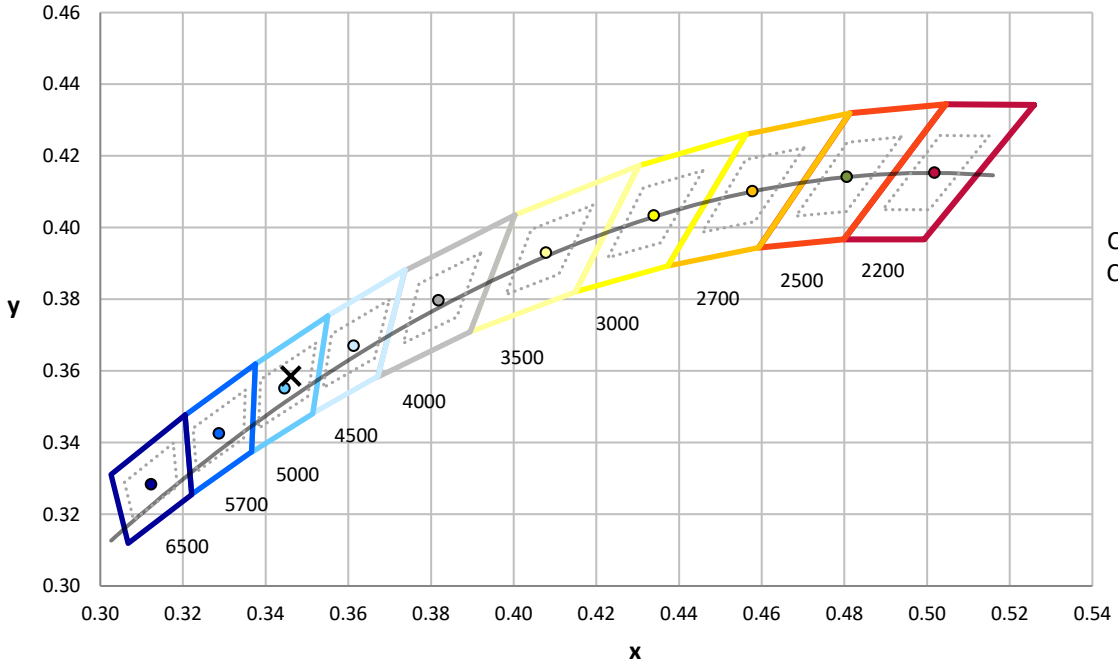
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

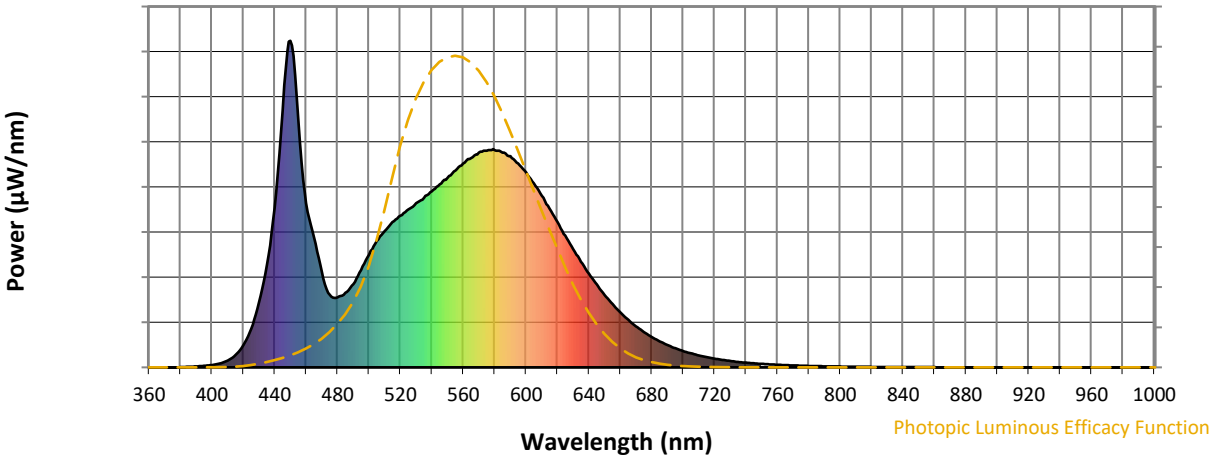


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

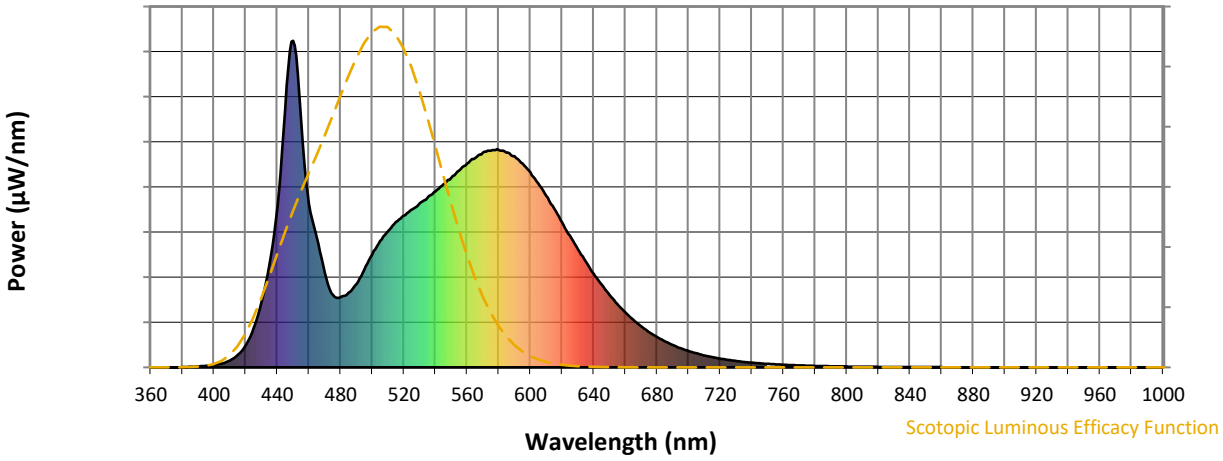


Photopic Lumens: NR

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

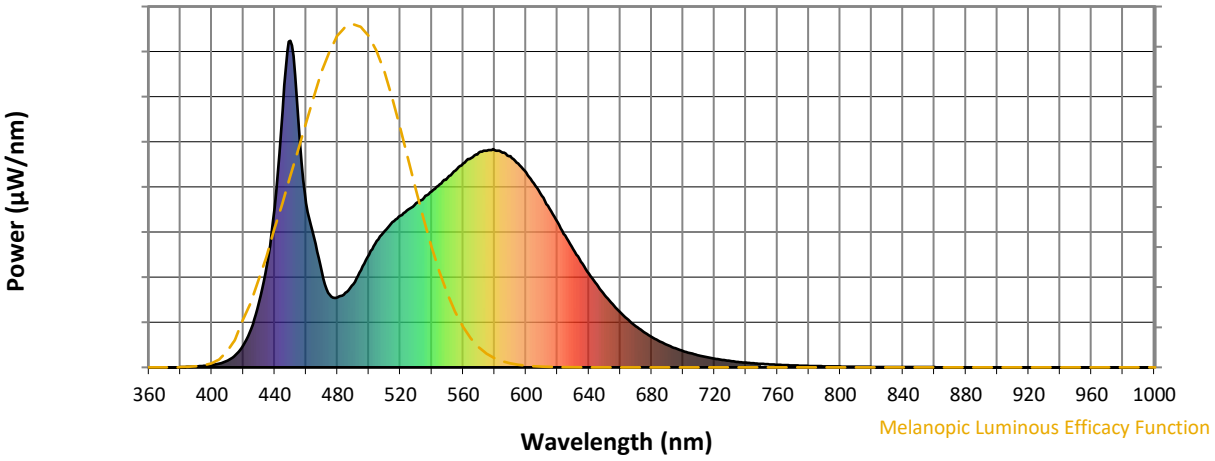


Scotopic Lumens: NR **S/P: 1.87**

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			

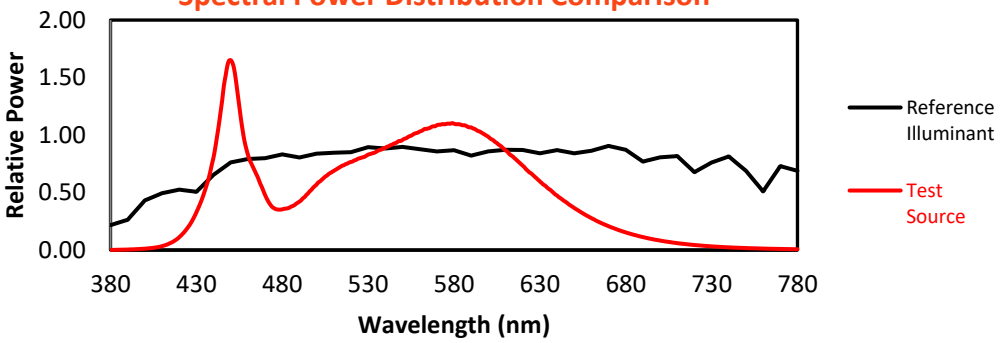
REPORT NUMBER: SP1-2501-332-5

TM-30-18

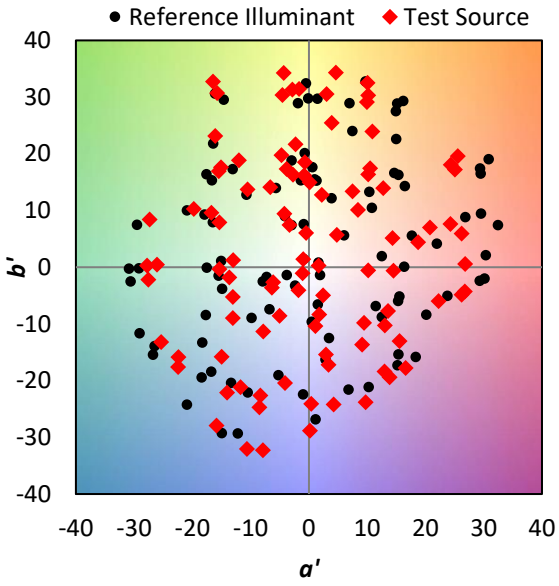
Summary

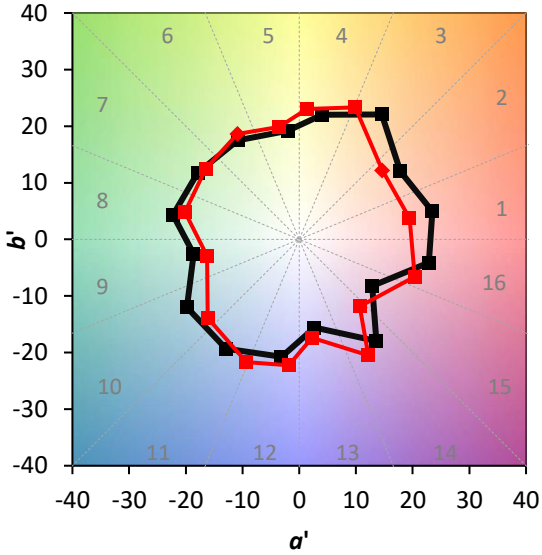
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R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

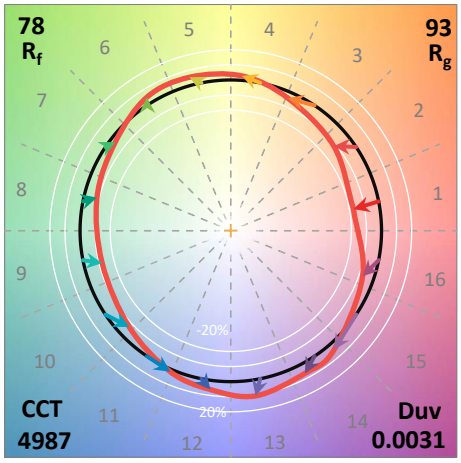
Spectral Power Distribution Comparison

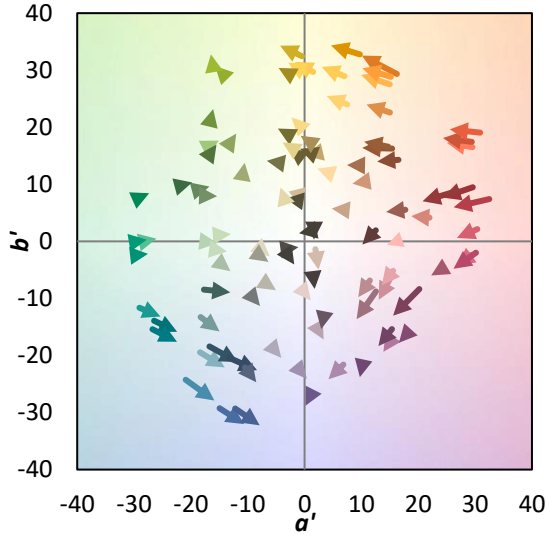


Color Vector Graphics







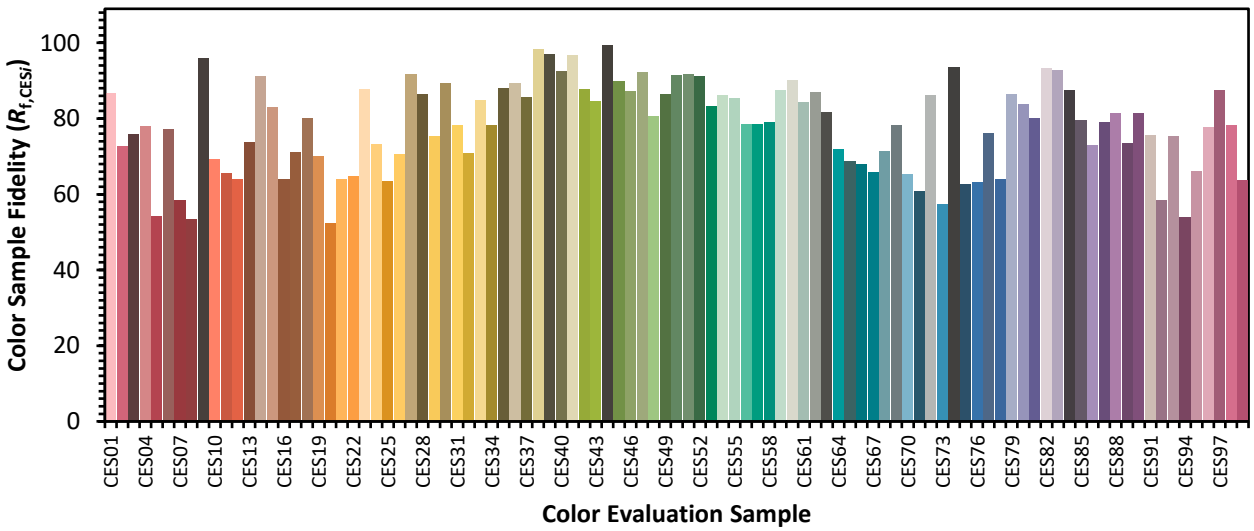


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

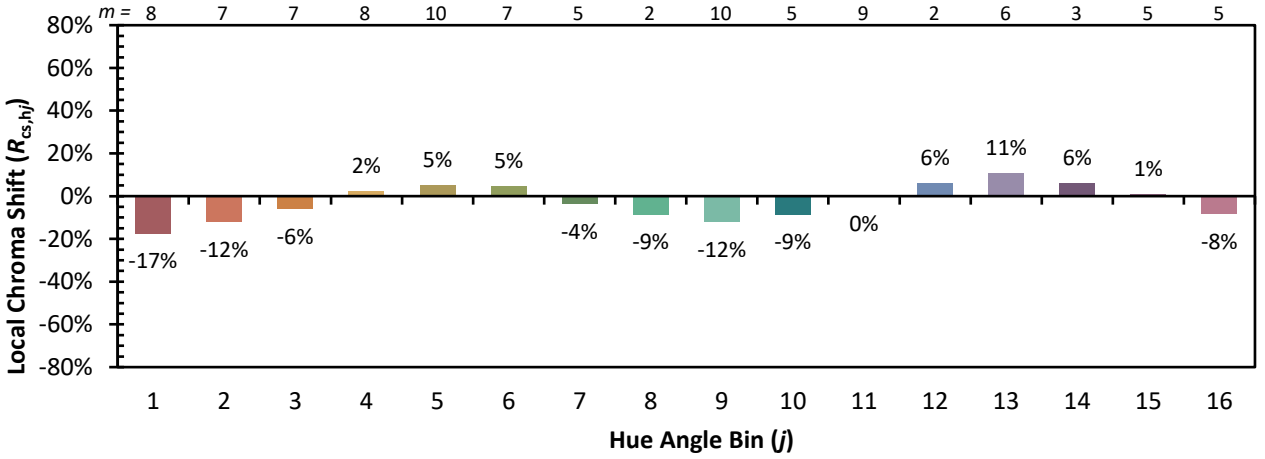
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CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 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	

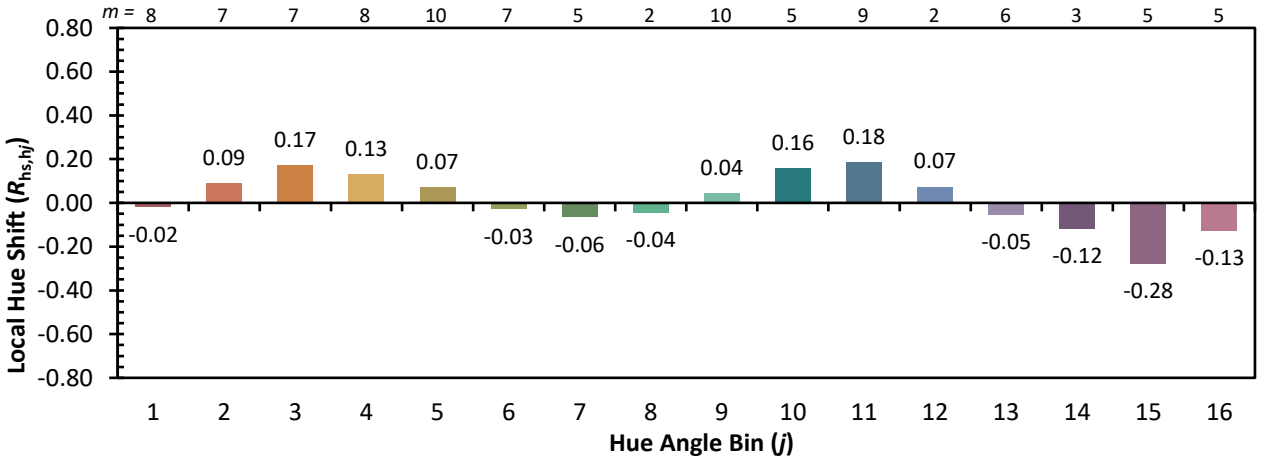


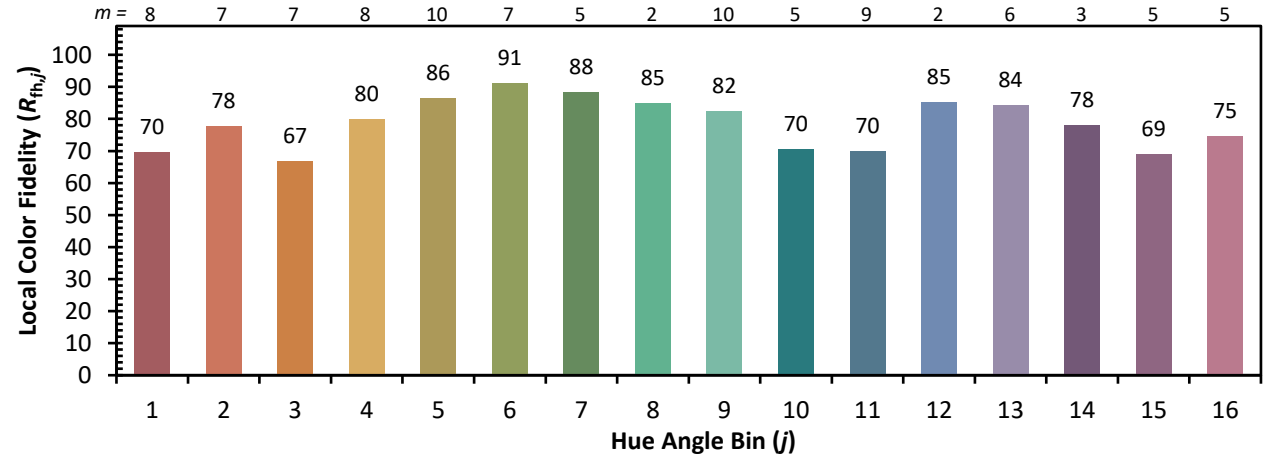
REPORT NUMBER: SP1-2501-332-5

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Color Rendition by Hue-Angle Bin



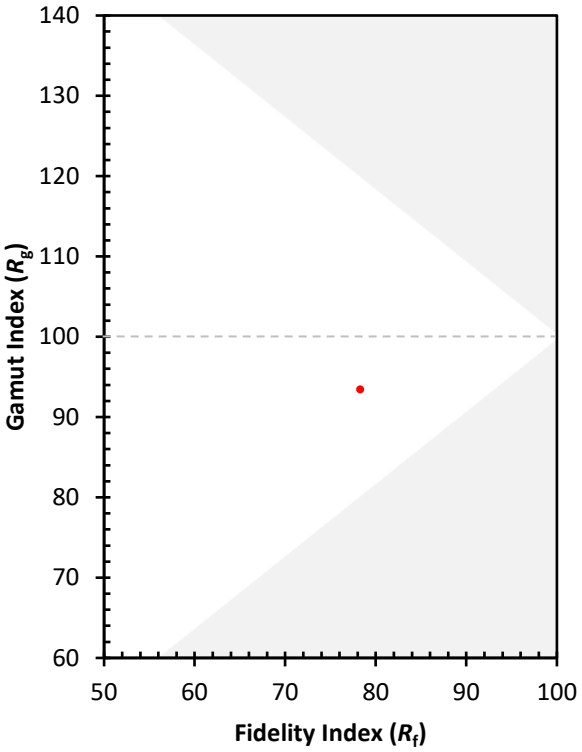


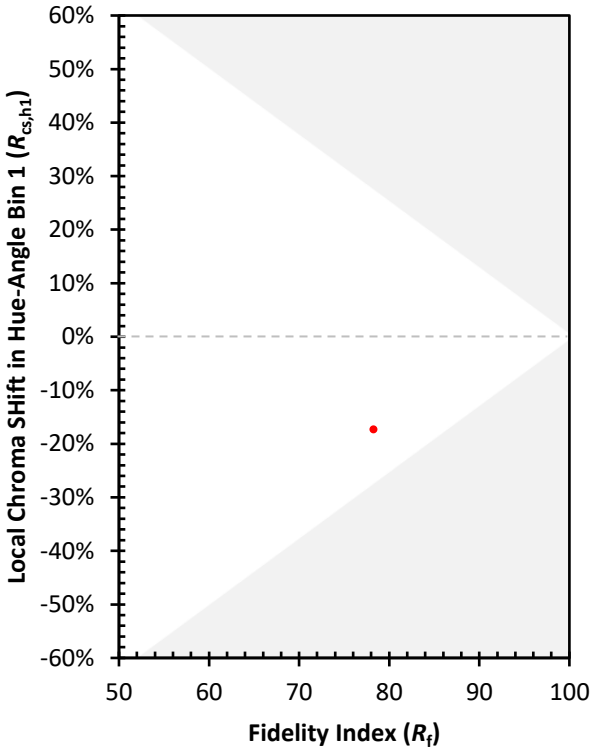


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Measure Comparisons





(END OF REPORT)