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: P1046432

Luminaire Tested: **FFX-CLB-30-730-U-FR-T4-UPLR**

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:	P1046432
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4708.1 lumens
Efficiency:	N/A
Efficacy:	153.9 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

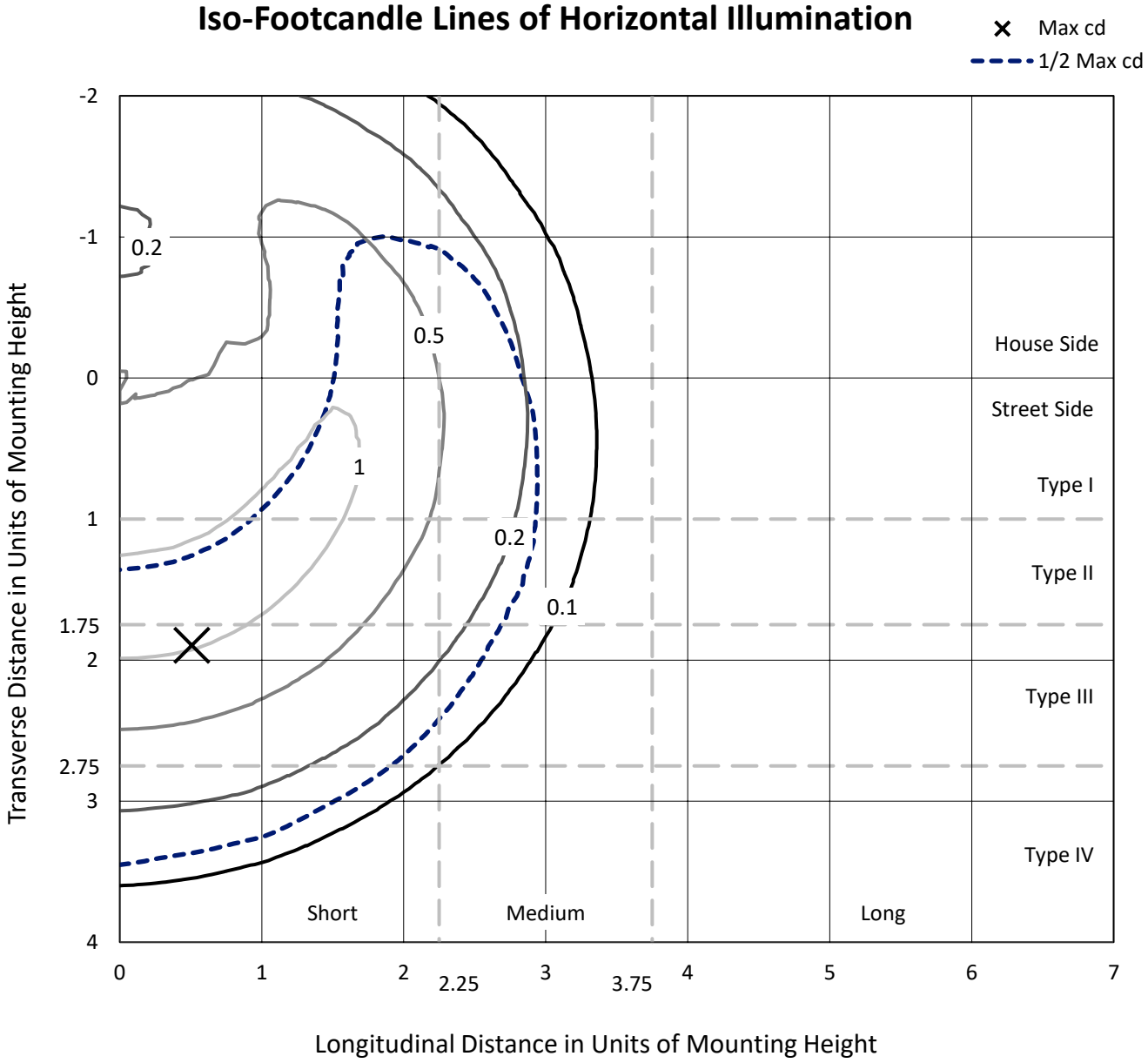


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Iso-Footcandle Lines of Horizontal Illumination



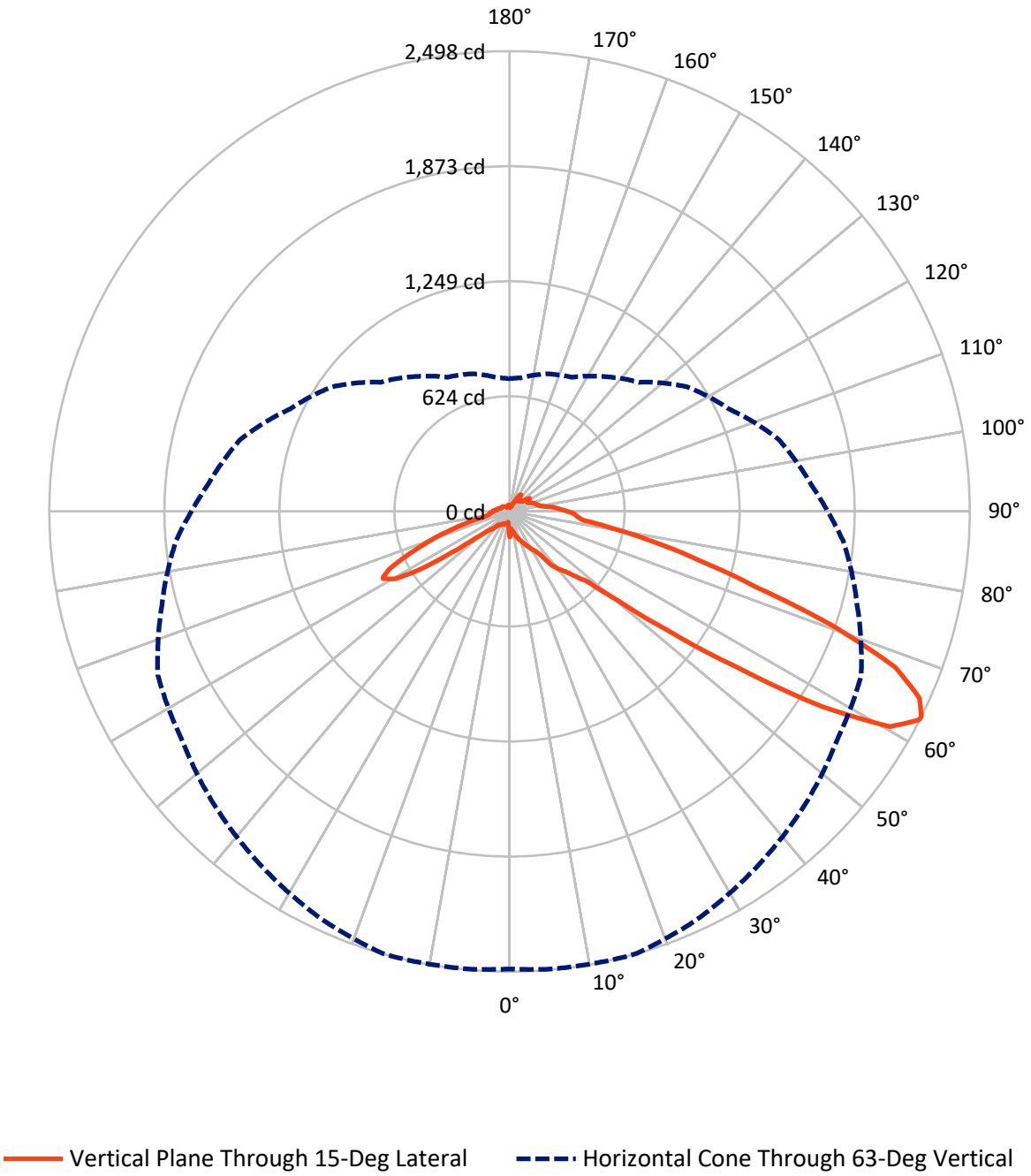
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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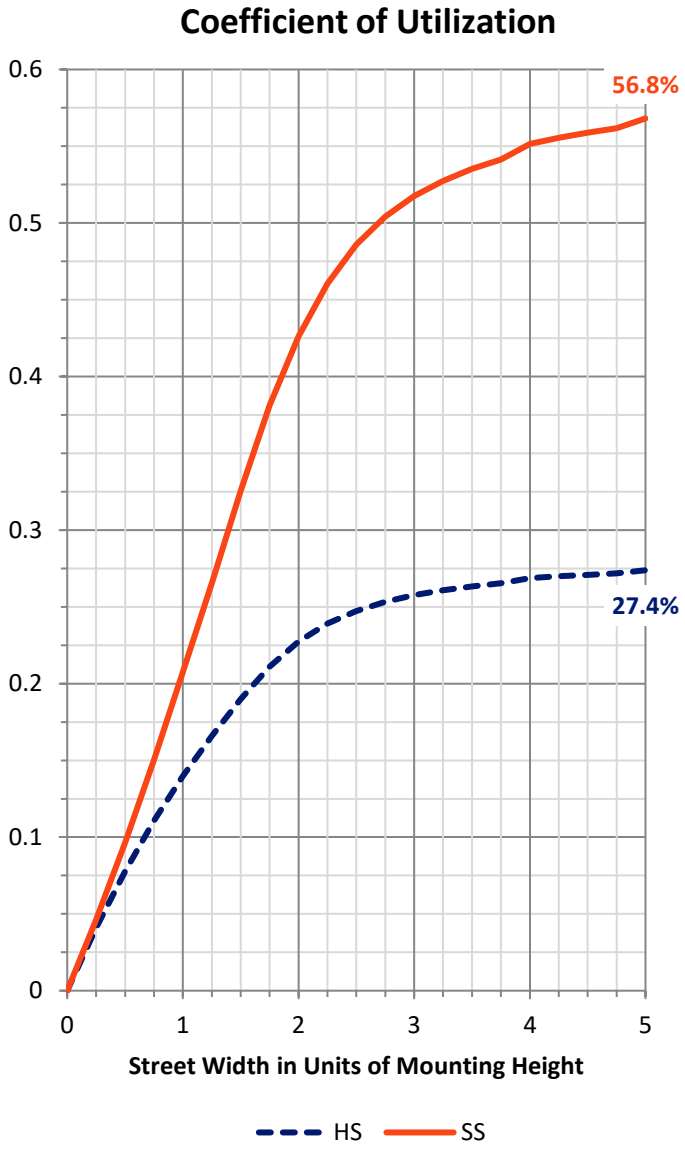
REPORT NUMBER: P1046432
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1331.5	216.9	1548.5
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	2788.0	371.6	3159.7
	% Fixture	59.2	7.9	67.1
Total	Lumens	4119.6	588.6	4708.1
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.2
10°-20°	30.8	0.7
20°-30°	66.8	1.4
30°-40°	137.3	2.9
40°-50°	283.1	6.0
50°-60°	931.4	19.8
60°-70°	1542.1	32.8
70°-80°	808.8	17.2
80°-90°	310.6	6.6
90°-100°	187.6	4.0
100°-110°	118.2	2.5
110°-120°	87.5	1.9
120°-130°	74.5	1.6
130°-140°	48.6	1.0
140°-150°	42.2	0.9
150°-160°	19.3	0.4
160°-170°	7.9	0.2
170°-180°	2.7	0.1
0°-90°	4119.6	87.5
0°-180°	4708.1	100.0



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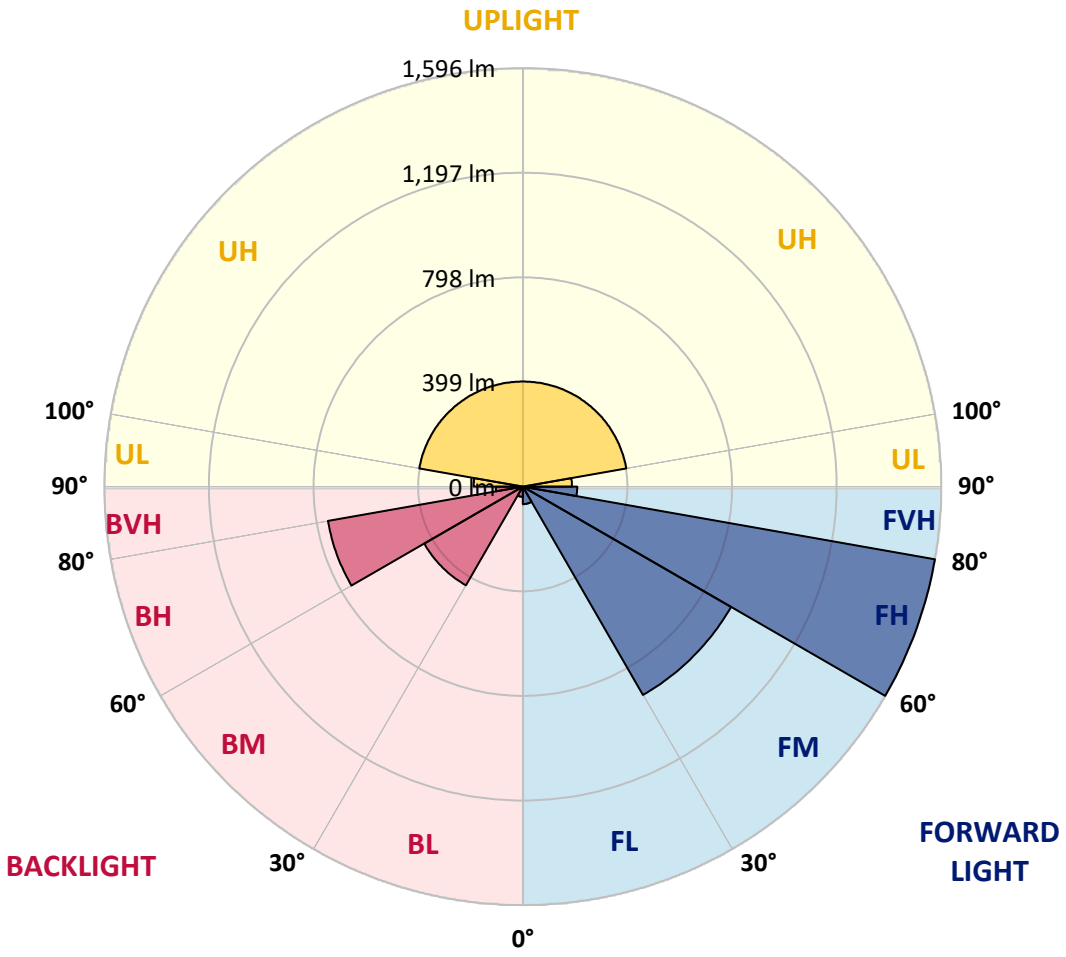
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	67.0	1.4			
FM	(30°-60°)	917.4	19.5			
FH	(60°-80°)	1596.1	33.9			G1/1800
FVH	(80°-90°)	207.5	4.4			G2/225
BL	(0°-30°)	39.2	0.8	B0/110		
BM	(30°-60°)	434.4	9.2	B1/1000		
BH	(60°-80°)	754.8	16.0	B2/1000		G2/1000
BVH	(80°-90°)	103.1	2.2			G2/225
UL	(90°-100°)	187.6	4.0		U3/500	
UH	(100°-180°)	400.9	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°	139.0	139.0	139.0	139.0	139.0	139.0	139.0	139.0	139.0	139.0	139.0
2.5°	85.6	85.6	98.0	100.1	111.9	115.6	109.1	104.1	116.2	140.9	144.9
5°	93.0	94.9	94.6	94.2	94.9	106.0	117.4	112.2	92.1	73.2	73.2
7.5°	105.4	106.0	105.7	105.4	101.4	94.9	92.1	100.4	105.7	89.9	75.4
10°	114.0	113.4	113.1	112.8	113.4	115.9	114.9	104.8	94.6	89.3	86.2
12.5°	130.4	130.7	129.8	129.2	128.5	127.6	126.7	128.9	123.3	108.1	98.0
15°	142.8	142.8	145.2	144.6	144.6	141.5	137.2	131.0	123.6	119.6	110.6
17.5°	155.7	156.0	155.7	155.7	154.5	150.5	145.8	140.3	132.6	125.8	118.0
20°	168.4	168.4	168.1	167.8	167.5	164.4	158.5	151.1	144.0	137.5	129.5
22.5°	181.7	182.6	183.2	182.6	181.7	178.6	172.1	165.0	158.2	148.9	140.3
25°	200.5	200.8	200.2	199.6	198.4	194.4	189.4	182.0	173.7	163.8	152.3
27.5°	218.5	219.1	218.8	218.8	216.3	212.9	208.0	198.1	188.8	177.4	165.6
30°	238.9	238.2	236.7	237.0	235.5	232.7	227.1	218.5	206.7	193.1	180.1
32.5°	258.9	258.9	256.8	255.9	255.9	252.1	246.0	237.0	225.9	211.4	198.7
35°	280.9	286.4	292.0	294.2	294.2	288.9	281.5	269.8	260.2	245.0	229.3
37.5°	386.2	382.8	369.3	370.8	366.2	364.0	359.1	349.2	335.9	312.7	288.6
40°	423.3	422.7	412.5	411.3	409.1	402.0	396.8	390.0	385.3	357.5	321.4
42.5°	429.8	433.2	446.8	450.2	467.8	457.0	436.0	397.7	388.1	367.1	351.9
45°	502.7	504.0	504.0	504.6	500.0	491.9	489.1	464.7	445.6	415.3	386.9
47.5°	575.4	578.1	567.3	576.0	588.0	571.6	564.2	544.1	517.9	494.4	447.7
50°	744.1	754.9	757.0	757.4	762.6	761.4	750.2	722.4	696.2	642.4	590.5
52.5°	1056.5	1067.0	1071.6	1060.5	1044.1	1036.7	1039.5	1028.0	967.2	909.4	804.0
55°	1464.3	1482.6	1482.6	1494.3	1489.4	1454.1	1452.0	1377.2	1278.9	1214.7	1122.9
57.5°	2010.0	1982.5	1998.0	2014.7	1980.7	1943.6	1888.3	1810.1	1666.4	1555.5	1422.6
60°	2414.5	2403.4	2372.8	2354.0	2269.0	2195.4	2151.9	2094.7	1985.6	1839.8	1662.1
62.5°	2488.7	2496.7	2494.5	2494.5	2426.6	2338.5	2250.4	2166.7	2099.0	1948.9	1808.3
63°	2484.0	2493.9	2497.9	2496.7	2435.5	2348.7	2261.3	2168.9	2106.1	1952.9	1816.9
65°	2444.5	2452.8	2445.7	2443.3	2404.6	2345.9	2247.7	2156.2	2099.0	1934.9	1818.1
67.5°	2285.7	2283.8	2257.2	2269.3	2244.9	2212.1	2120.3	2030.1	1990.6	1811.3	1703.8
70°	1846.0	1833.0	1862.0	1879.3	1852.8	1839.8	1730.7	1671.4	1620.4	1484.1	1397.3
72.5°	1411.2	1384.3	1389.3	1405.0	1371.6	1362.7	1316.0	1267.2	1242.8	1157.8	1061.4
75°	1106.5	1092.0	1065.1	1069.4	1041.9	1033.0	1028.0	1013.8	1004.2	933.5	838.0
77.5°	827.5	826.9	804.3	800.9	781.1	796.0	790.1	811.4	806.8	750.6	677.9
80°	579.1	575.7	581.5	579.4	574.7	583.4	574.1	585.9	585.9	549.1	518.5
82.5°	377.9	384.7	403.2	407.6	414.4	434.8	402.0	384.7	380.1	376.1	361.2
85°	375.1	377.0	368.9	369.9	366.8	359.1	364.9	367.7	363.1	340.8	308.1
87.5°	353.5	356.0	349.5	351.3	339.9	342.4	346.1	348.2	346.1	326.3	299.1
90°	297.9	300.7	306.5	306.5	307.5	308.1	302.2	305.6	303.4	284.6	264.8
92.5°	264.2	266.7	267.0	267.3	264.8	272.8	263.3	257.4	255.9	240.7	226.5
95°	241.6	238.9	238.2	238.9	237.6	237.3	231.1	226.8	225.0	212.9	199.0
97.5°	189.1	190.7	190.0	191.6	188.5	188.2	182.9	177.4	175.5	165.6	156.4
100°	165.9	165.6	166.2	166.6	164.7	162.5	158.8	154.8	152.6	145.2	136.3
102.5°	155.7	155.4	156.7	157.0	155.4	153.9	150.8	148.3	146.5	139.7	129.8
105°	149.2	148.3	149.9	149.9	146.5	145.5	143.4	143.1	141.8	133.8	124.2
107.5°	140.3	138.7	140.6	140.3	139.0	138.1	136.3	135.0	134.1	127.3	116.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	131.9	129.8	*130.7*	131.3	132.3	131.6	130.1	127.6	125.1	119.6	110.6
112.5°	116.5	117.7	*117.4*	117.4	118.3	118.7	115.9	114.3	112.8	108.5	102.6
115°	110.6	110.6	*110.6*	110.6	108.1	107.2	104.4	102.6	102.3	97.0	93.3
117.5°	106.0	106.6	*108.1*	109.1	112.2	110.3	104.1	100.1	98.6	96.4	92.4
120°	124.8	122.7	*120.5*	120.2	120.5	119.3	118.0	115.3	111.5	105.7	94.6
122.5°	133.8	128.2	*129.2*	128.9	126.7	127.6	127.9	128.2	125.8	116.5	99.2
125°	112.2	110.6	*111.5*	112.5	112.8	112.5	111.9	114.6	111.2	108.1	95.2
127.5°	89.6	89.0	*87.1*	86.8	86.2	86.5	86.5	87.4	84.4	81.3	80.6
130°	85.3	84.0	*84.4*	84.7	84.4	82.5	81.3	79.7	79.4	76.3	72.0
132.5°	77.2	77.9	*83.1*	83.7	87.4	85.3	78.8	74.5	75.1	76.6	75.1
135°	72.3	72.0	*76.0*	76.3	81.9	80.3	75.1	70.1	70.1	73.9	72.3
137.5°	73.9	74.5	*74.8*	75.1	74.8	74.5	74.2	72.0	70.5	70.1	66.4
140°	79.4	79.1	*76.0*	76.3	76.0	76.0	77.9	79.4	74.2	69.5	63.3
142.5°	83.1	84.0	*82.8*	84.4	87.1	84.7	81.6	77.6	74.5	71.4	67.7
145°	112.8	110.6	*109.7*	109.1	107.2	102.0	98.9	94.9	91.2	86.2	80.0
147.5°	102.3	102.9	*101.0*	101.7	99.2	97.3	96.7	97.0	95.8	93.0	86.5
150°	81.3	81.9	*80.0*	79.1	78.2	78.2	78.2	78.8	77.2	75.4	72.3
152.5°	56.9	56.2	*55.6*	55.3	54.7	54.1	54.1	54.4	52.8	52.2	49.7
155°	52.2	51.9	*49.4*	48.8	49.4	50.1	50.4	49.4	48.2	47.0	43.6
157.5°	40.8	39.9	*39.6*	40.2	40.2	39.9	39.2	39.9	38.6	38.3	37.7
160°	33.4	33.1	*33.4*	33.4	33.7	33.7	33.4	33.4	32.8	33.1	33.1
162.5°	28.4	28.4	*28.4*	28.1	28.7	29.0	28.7	28.7	29.0	30.0	30.6
165°	24.4	24.4	*24.7*	24.7	25.0	25.0	25.3	25.6	26.3	28.4	30.3
167.5°	22.9	22.9	*23.2*	23.2	23.5	23.8	24.4	25.6	27.5	30.0	30.9
170°	22.6	22.6	*22.6*	22.6	22.9	23.2	24.4	26.3	28.4	30.0	29.0
172.5°	23.5	23.5	*23.8*	23.8	23.8	25.0	26.0	27.5	28.7	29.0	28.1
175°	24.4	24.1	*24.4*	24.4	24.7	25.6	26.9	27.5	28.1	28.4	28.7
177.5°	23.8	23.8	*23.8*	24.1	24.1	24.4	25.0	25.3	26.0	26.6	27.5
180°	23.2	23.2	*23.2*	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	139.0	139.0	139.0	139.0	139.0	139.0	139.0	139.0	139.0	139.0	139.0
2.5°	144.9	140.9	109.7	93.9	107.2	133.2	135.7	117.4	91.2	63.3	57.8
5°	77.2	81.6	91.2	90.8	84.7	79.1	72.3	68.0	75.1	72.0	73.9
7.5°	69.8	65.8	67.4	78.8	76.9	58.4	52.8	51.6	57.8	72.0	70.5
10°	85.0	83.7	79.1	69.8	66.7	69.2	71.4	69.8	64.3	55.9	54.7
12.5°	96.1	94.6	95.2	101.0	93.9	77.9	68.9	66.1	69.2	81.6	84.0
15°	106.9	104.1	100.1	91.8	85.0	80.6	75.4	69.8	71.7	68.3	67.1
17.5°	114.3	110.0	101.7	95.5	88.7	83.1	78.5	72.6	68.6	67.7	68.0
20°	124.2	119.6	110.6	103.5	95.2	87.8	79.7	73.5	69.5	68.0	68.0
22.5°	135.7	130.1	119.9	110.0	100.7	91.2	81.6	74.8	71.1	69.5	68.9
25°	147.7	142.1	129.5	119.0	107.2	96.7	86.8	78.2	74.2	72.3	70.8
27.5°	160.1	153.3	140.6	127.6	114.9	102.6	92.1	83.1	77.6	74.5	74.8
30°	173.7	168.1	153.9	139.0	123.3	108.8	98.6	88.4	81.6	78.2	78.5
32.5°	191.9	182.9	165.9	148.9	133.5	117.4	104.4	92.7	85.3	83.1	83.4
35°	222.2	210.7	190.0	166.9	146.2	127.3	110.9	97.0	88.4	85.0	84.7
37.5°	276.9	261.4	237.6	210.4	180.5	149.9	123.3	102.0	91.2	85.6	84.7
40°	303.4	282.4	252.5	229.0	208.6	182.3	152.0	119.9	95.8	88.7	87.8
42.5°	339.0	321.4	282.4	236.7	209.5	187.6	166.2	145.5	115.6	97.0	93.6
45°	373.3	357.5	326.9	282.1	241.6	207.3	175.5	153.0	134.4	115.6	114.0
47.5°	431.1	414.4	363.4	323.5	280.9	241.9	208.6	171.5	147.4	134.1	134.1
50°	576.0	545.4	495.0	433.8	365.2	302.2	254.9	209.5	180.5	160.4	159.4
52.5°	778.4	735.1	660.9	593.3	512.3	439.4	365.9	286.8	244.4	215.4	215.1
55°	1070.7	1026.5	927.3	797.2	698.0	610.9	534.6	447.7	381.0	334.0	330.3
57.5°	1382.5	1345.4	1244.3	1082.7	926.4	772.2	679.8	610.6	578.4	545.7	538.9
60°	1584.5	1520.9	1428.8	1274.6	1123.2	926.7	812.0	732.6	721.8	714.7	705.8
62.5°	1711.9	1636.8	1499.9	1315.1	1176.0	990.0	887.4	802.8	777.4	739.4	728.6
63°	*1726.4*	*1644.8*	*1511.3*	*1314.2*	*1177.6*	*991.0*	*893.0*	*802.8*	*773.1*	*727.4*	*720.3*
65°	1719.6	1643.9	1510.7	1295.0	1141.7	972.7	876.9	766.0	718.7	658.2	646.1
67.5°	1615.8	1535.1	1409.7	1197.7	1059.2	886.8	781.5	663.7	592.0	532.7	518.8
70°	1315.4	1265.3	1155.0	971.8	866.7	732.3	639.9	547.5	470.0	407.6	391.8
72.5°	1002.4	949.9	867.1	748.1	670.5	578.1	490.7	419.6	355.7	314.3	315.5
75°	795.4	745.3	677.0	598.8	535.5	453.3	366.8	296.3	250.9	226.2	224.0
77.5°	640.6	605.9	546.3	474.3	419.6	333.7	256.8	195.3	161.6	147.4	143.4
80°	493.8	469.7	425.2	361.8	305.0	234.5	174.9	138.1	120.2	108.1	106.0
82.5°	351.3	336.8	299.7	255.5	216.9	180.1	153.3	129.2	110.6	100.4	97.3
85°	293.2	279.6	256.2	228.7	203.9	177.1	148.6	123.0	105.7	97.6	93.6
87.5°	284.6	271.9	249.4	220.0	193.1	164.1	135.3	111.2	98.9	91.2	88.7
90°	254.9	245.3	225.6	198.7	171.8	142.1	117.1	100.1	90.5	84.4	81.6
92.5°	219.7	211.4	195.0	172.4	149.9	128.5	109.4	95.2	85.6	79.4	77.2
95°	191.0	185.7	172.1	153.0	136.6	119.0	102.6	89.0	79.1	73.5	71.4
97.5°	152.3	146.2	136.3	123.0	110.6	98.3	86.2	76.9	69.8	66.1	64.3
100°	132.6	128.5	119.6	109.1	98.6	87.8	78.5	71.4	66.7	63.7	62.1
102.5°	124.8	122.1	113.7	103.2	93.3	82.8	73.5	67.1	63.7	60.9	59.6
105°	117.7	115.6	109.1	99.5	89.9	78.5	68.0	62.4	59.3	57.5	56.5
107.5°	110.3	107.8	101.7	92.4	84.0	74.2	64.9	58.1	54.1	51.9	51.6

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

Scaled Data Report

REPORT NUMBER: P1046432
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	104.1	102.3	95.5	88.1	80.0	70.8	62.7	55.6	51.0	48.5	48.2
112.5°	97.6	95.5	88.7	81.6	74.8	66.7	59.6	53.5	49.1	46.7	46.3
115°	89.0	87.1	82.2	75.4	69.8	62.1	56.2	50.7	47.3	44.8	44.5
117.5°	89.9	84.7	77.9	71.7	66.7	61.2	55.9	51.6	46.3	43.6	43.6
120°	91.2	86.2	79.4	74.2	71.4	67.1	59.0	52.8	45.7	43.0	42.6
122.5°	89.9	90.5	86.8	81.6	76.0	68.6	58.7	51.9	44.8	42.6	43.0
125°	87.1	89.9	84.7	77.6	70.1	63.0	54.7	48.5	44.2	42.6	42.3
127.5°	78.8	78.2	71.4	66.1	60.9	55.0	49.7	46.0	43.0	41.1	40.2
130°	69.5	69.2	66.4	62.1	56.9	51.6	47.0	44.5	41.4	38.9	38.3
132.5°	73.2	72.3	66.4	59.3	53.5	49.1	46.0	43.3	38.9	36.2	35.8
135°	69.2	68.6	62.7	55.6	50.4	48.2	46.0	42.0	36.8	34.6	34.3
137.5°	63.3	60.9	55.9	51.6	49.1	48.5	45.7	41.1	36.2	33.7	33.4
140°	60.3	58.4	54.7	51.9	49.1	45.7	41.7	37.4	34.0	32.1	31.8
142.5°	64.0	63.3	57.8	52.8	48.5	44.5	40.2	37.4	33.7	31.2	30.9
145°	75.7	72.6	65.8	59.0	55.3	50.1	44.5	38.6	31.8	28.1	27.2
147.5°	82.8	80.0	73.2	65.8	57.8	49.4	40.8	33.4	28.1	25.3	24.7
150°	68.6	67.4	63.0	56.2	49.4	41.7	34.6	29.4	26.0	24.1	24.1
152.5°	48.2	47.9	46.0	42.0	37.7	33.4	29.7	26.6	24.7	23.5	23.5
155°	42.6	42.0	40.8	37.1	34.0	30.3	27.5	25.6	24.4	23.5	23.5
157.5°	36.8	36.2	35.8	33.1	30.6	28.1	26.0	24.4	23.5	22.9	22.6
160°	32.8	31.8	30.9	29.4	27.8	26.6	25.6	24.4	23.5	22.9	22.9
162.5°	30.6	30.0	28.4	27.2	26.6	26.6	26.9	26.3	24.4	23.5	23.2
165°	30.6	29.7	27.5	26.3	26.3	27.8	29.4	28.1	26.6	24.7	24.4
167.5°	30.9	30.3	28.1	27.2	28.1	30.0	31.5	31.2	29.0	27.5	27.5
170°	28.7	28.4	28.7	29.7	30.6	30.9	31.5	31.2	31.8	34.0	34.0
172.5°	27.8	28.1	29.7	31.2	33.1	33.1	31.5	31.2	34.0	37.1	37.7
175°	29.0	29.7	31.2	33.1	34.6	34.6	33.1	33.4	36.2	38.9	39.6
177.5°	27.8	28.1	28.7	28.4	29.0	27.5	28.1	27.5	28.4	28.4	28.4
180°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

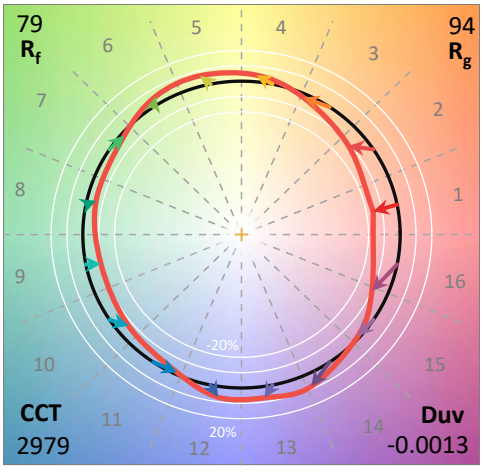
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

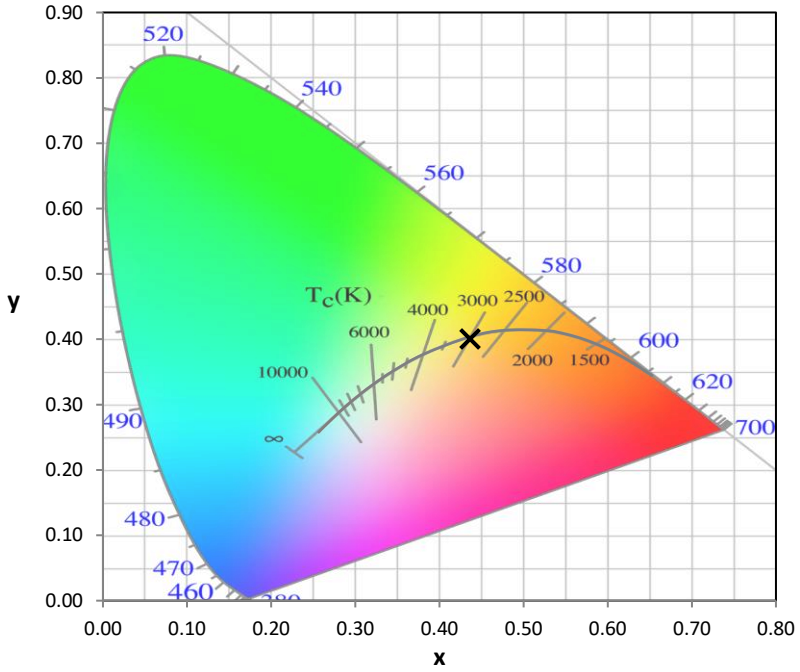
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

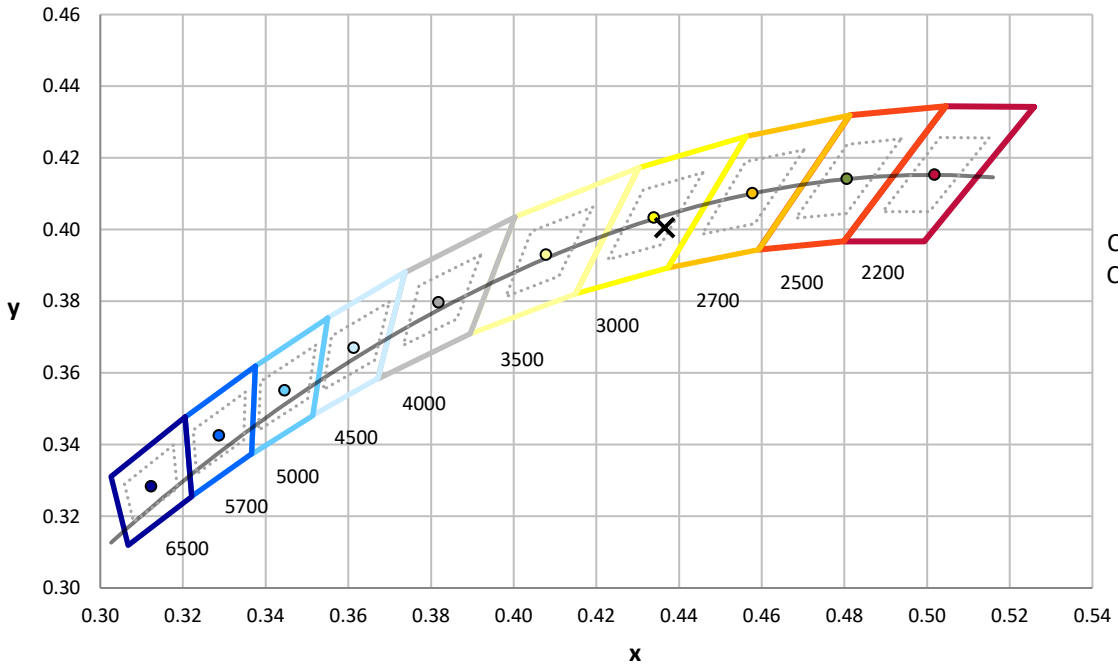
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

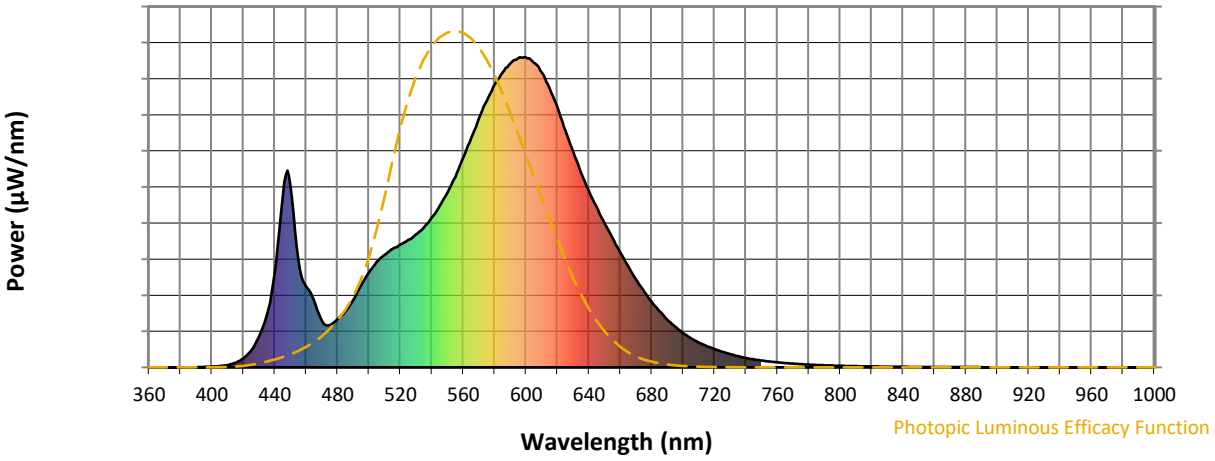


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

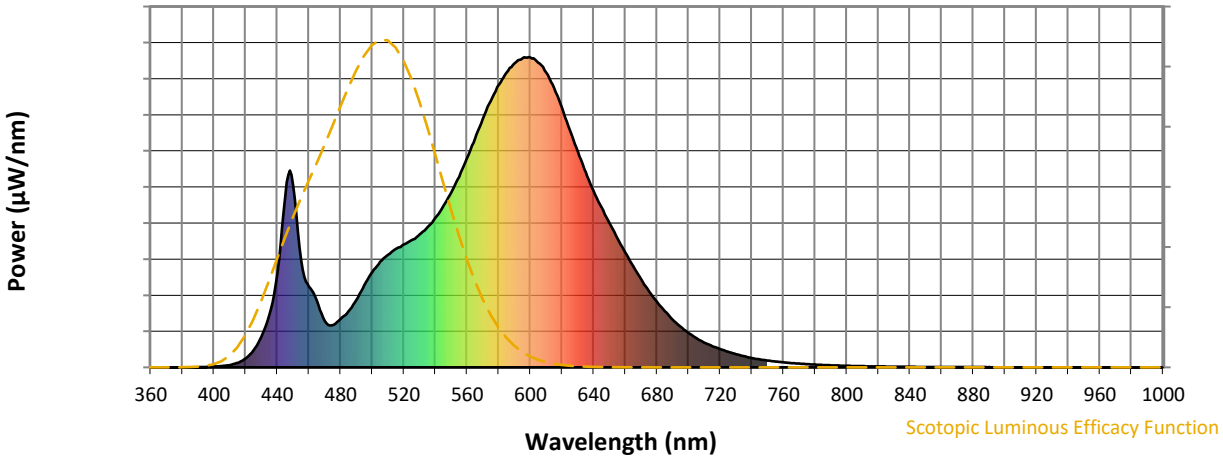


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

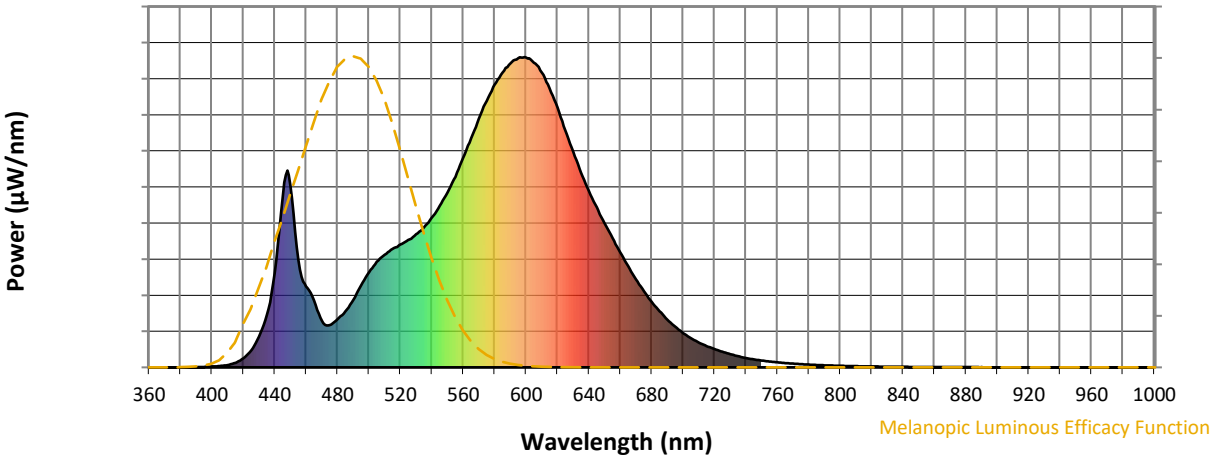


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

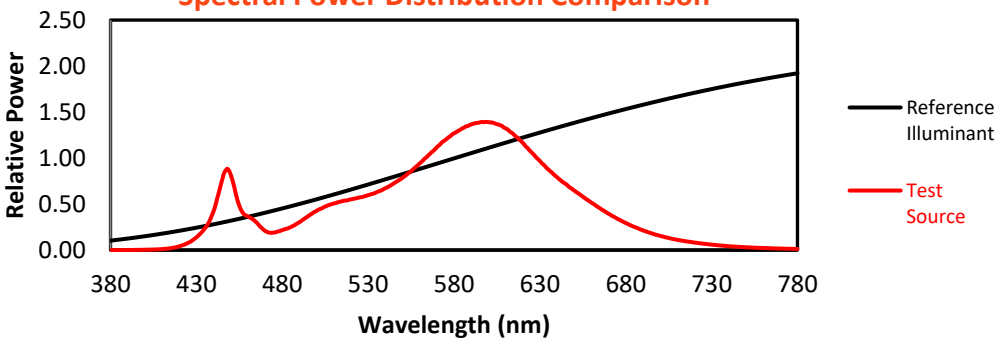
REPORT NUMBER: SP1-2501-332-9

TM-30-18

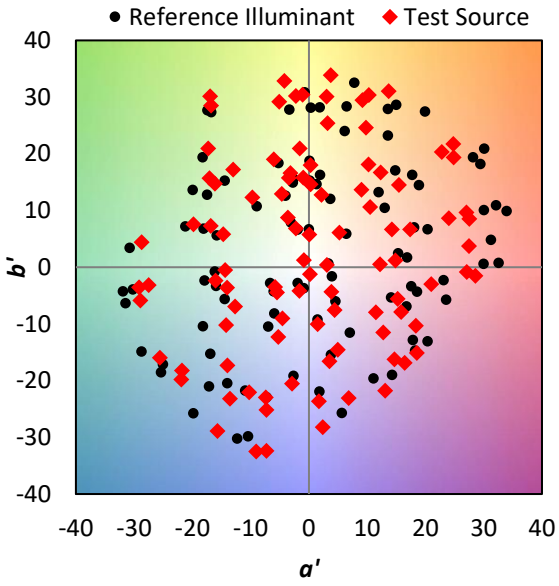
Summary

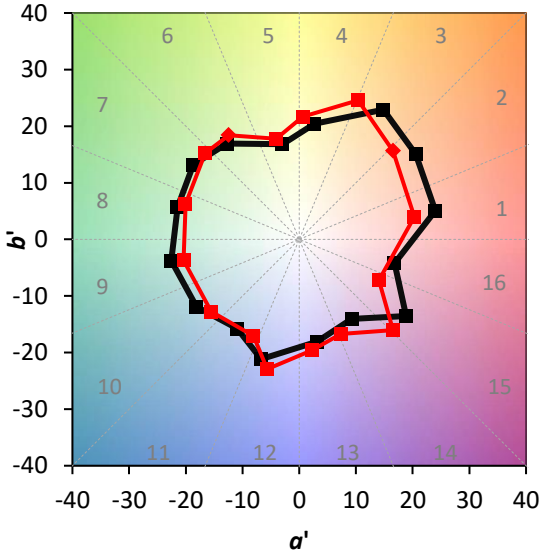
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

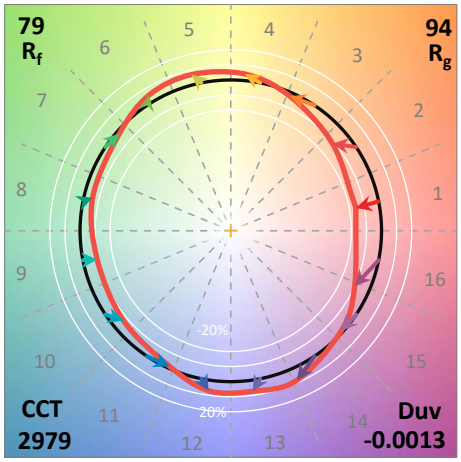
Spectral Power Distribution Comparison

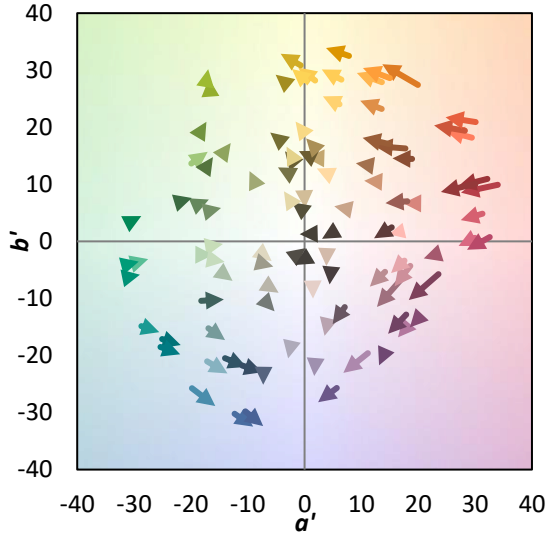


Color Vector Graphics







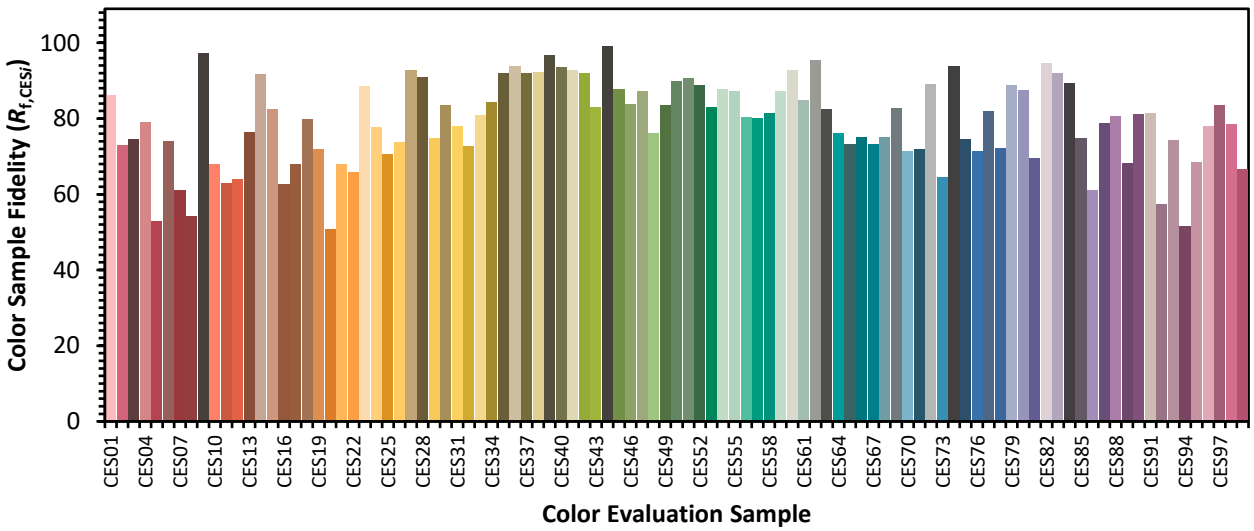


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

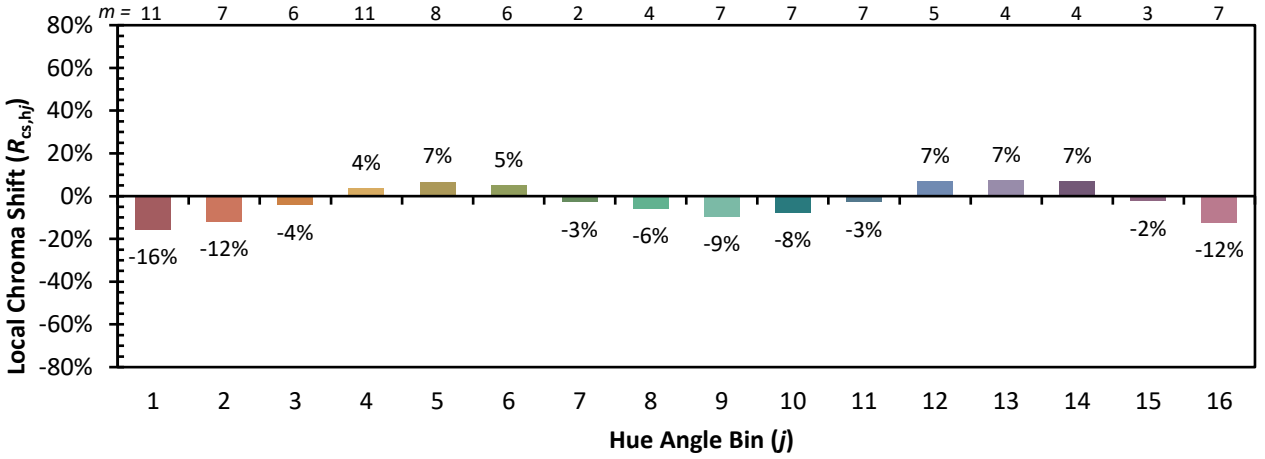
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

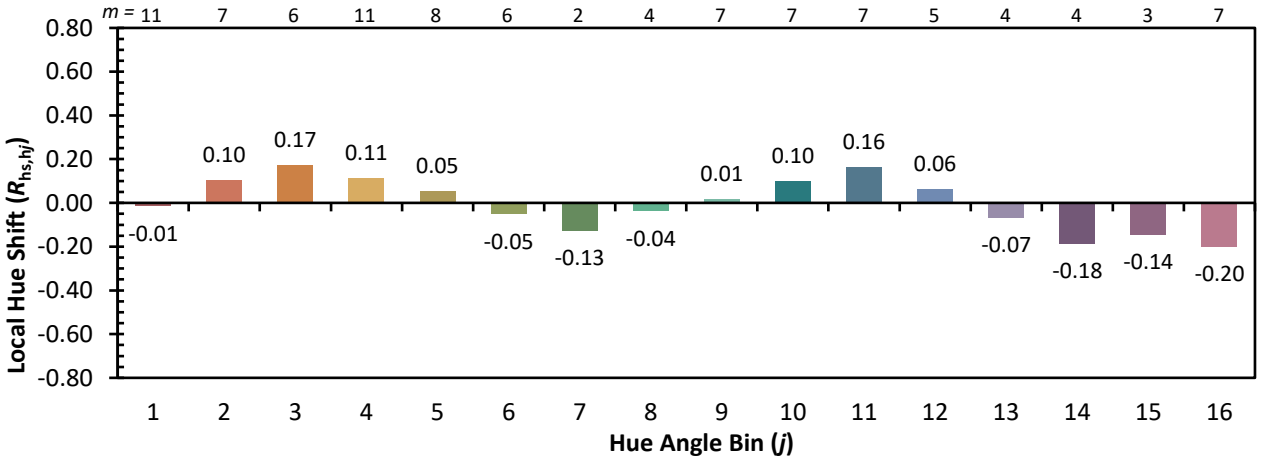


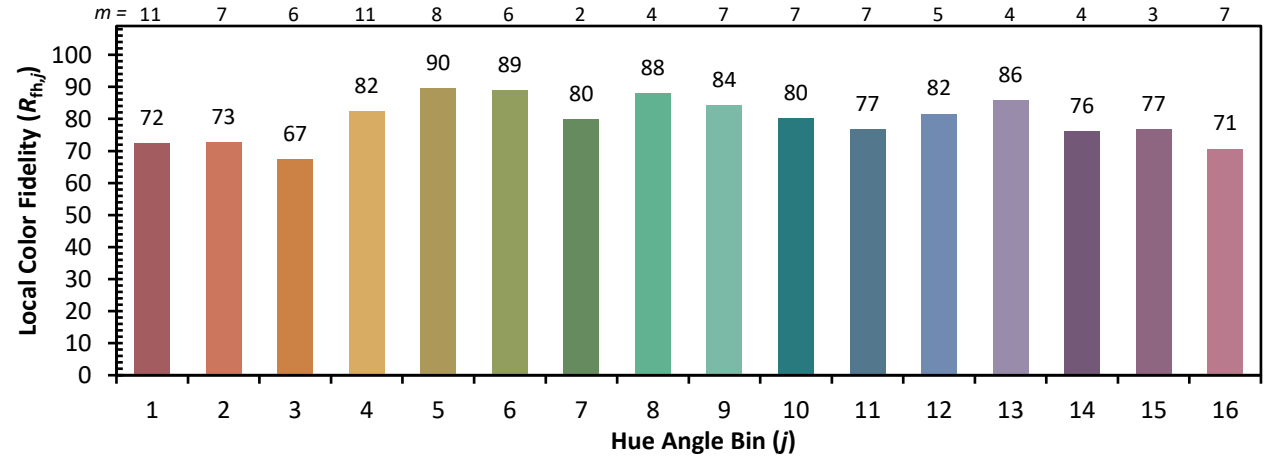
REPORT NUMBER: SP1-2501-332-9

TM-30-18

Color Rendition by Hue-Angle Bin



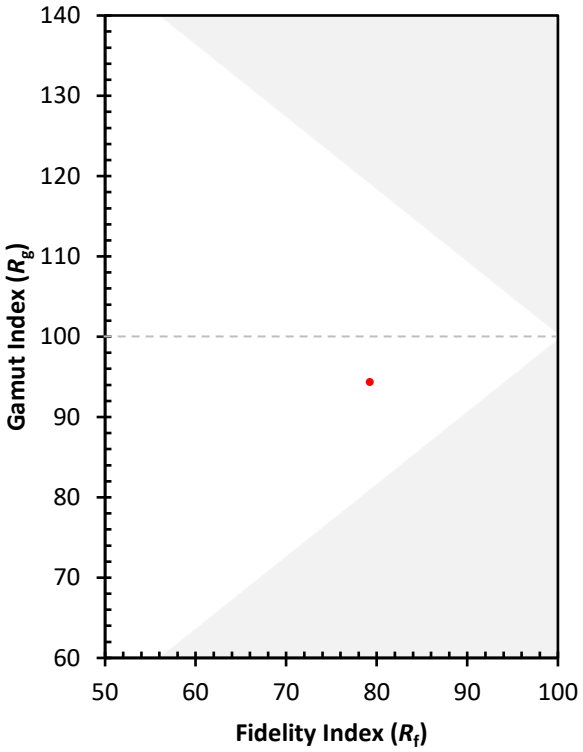


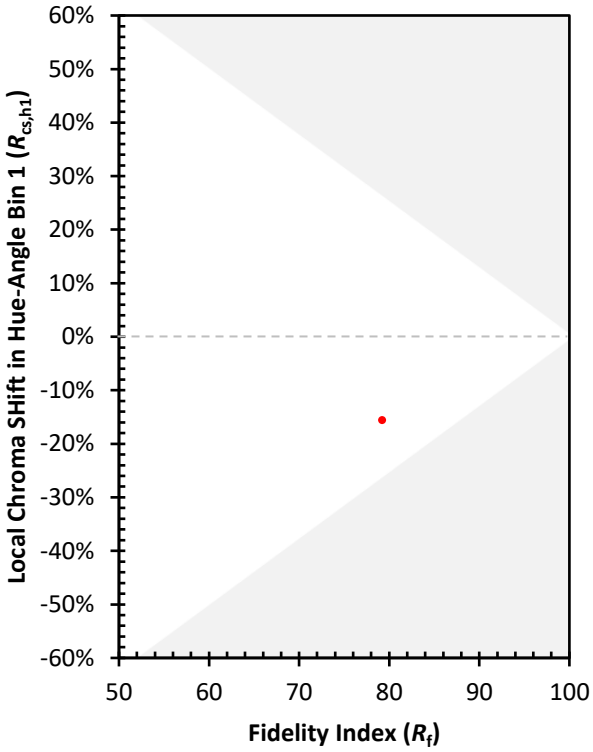


REPORT NUMBER: SP1-2501-332-9

TM-30-18

Measure Comparisons





(END OF REPORT)