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: P1046387

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

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:	P1046387
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
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4856.9 lumens
Efficiency:	N/A
Efficacy:	158.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - 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

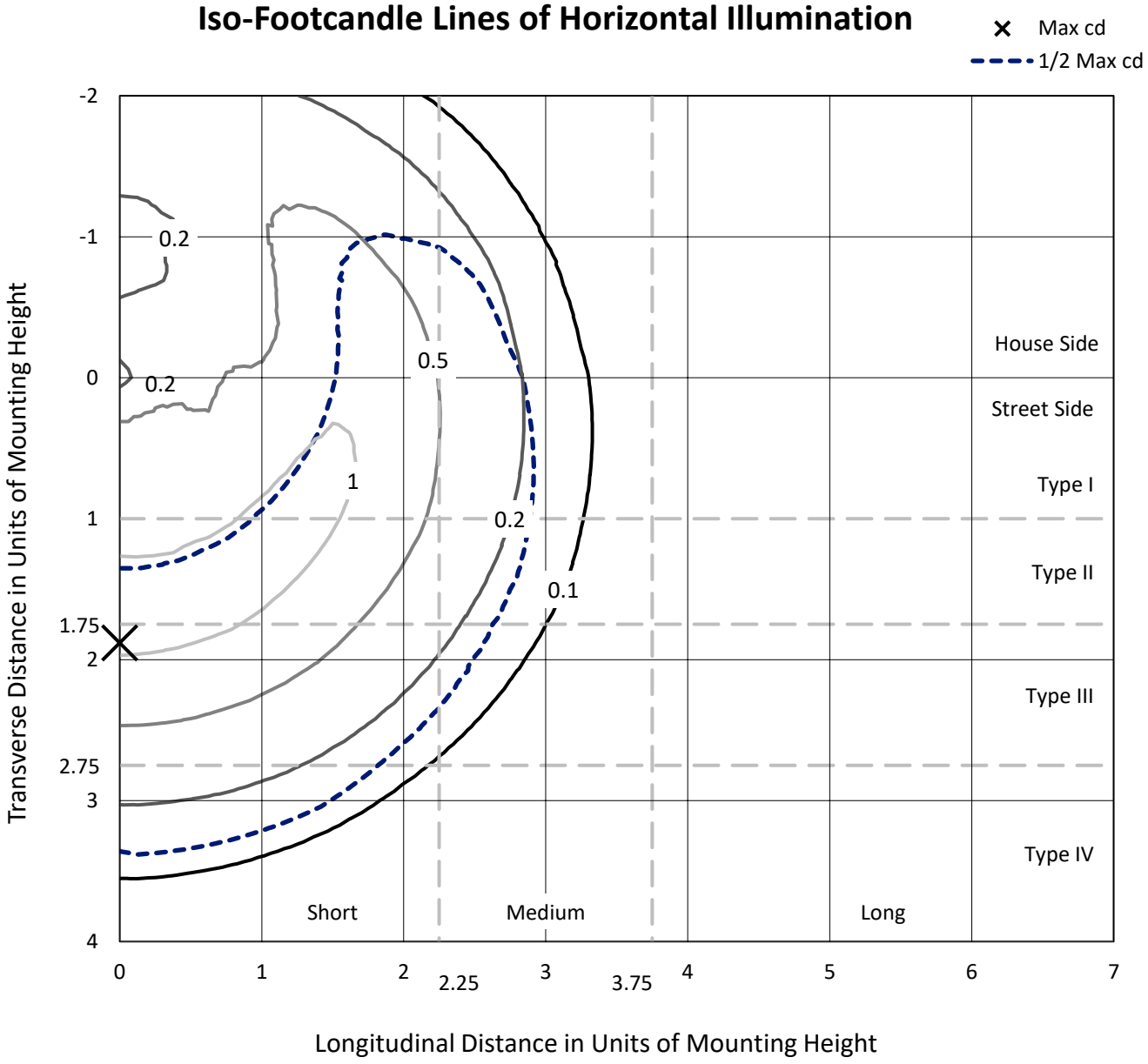


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Iso-Footcandle Lines of Horizontal Illumination



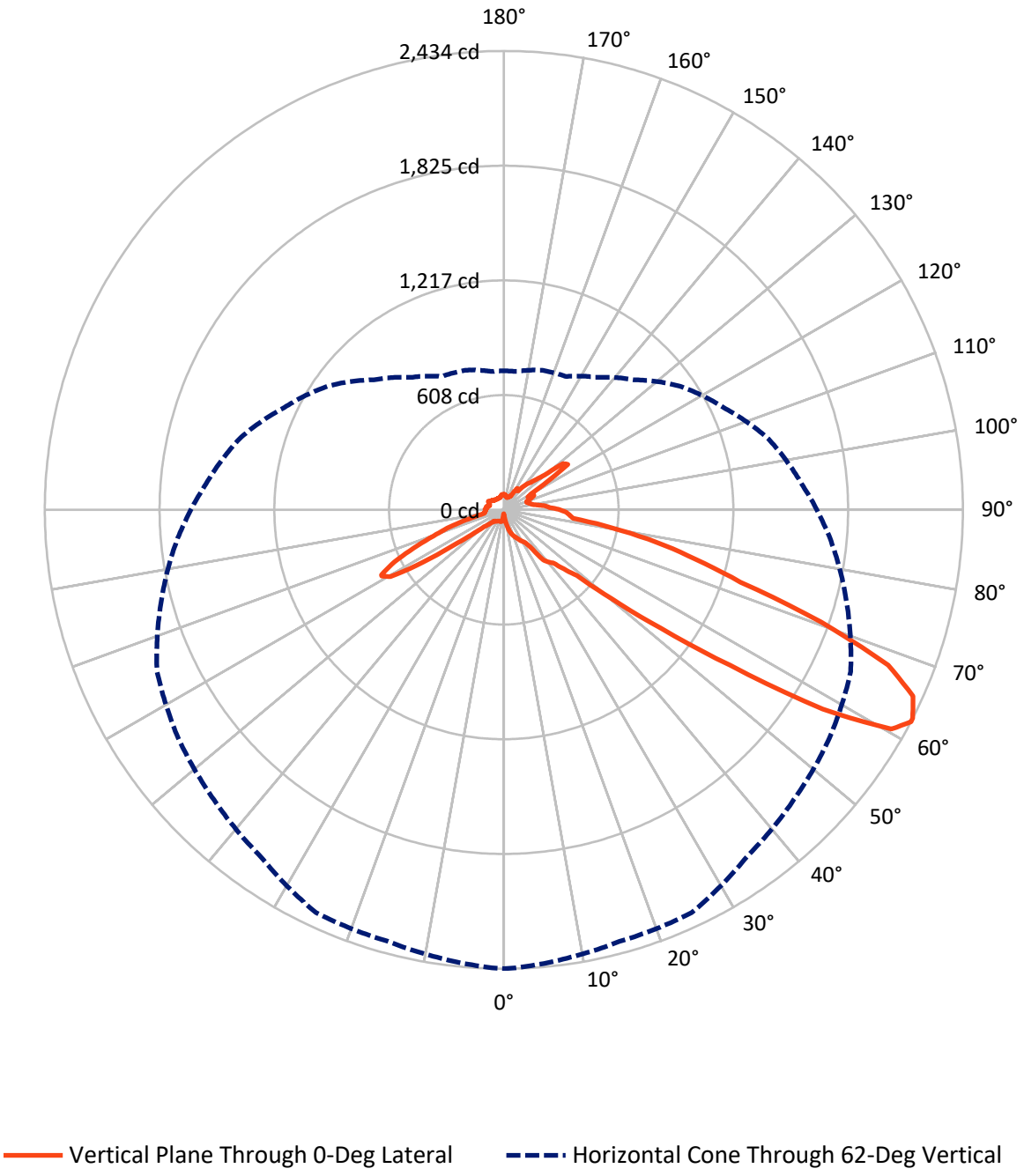
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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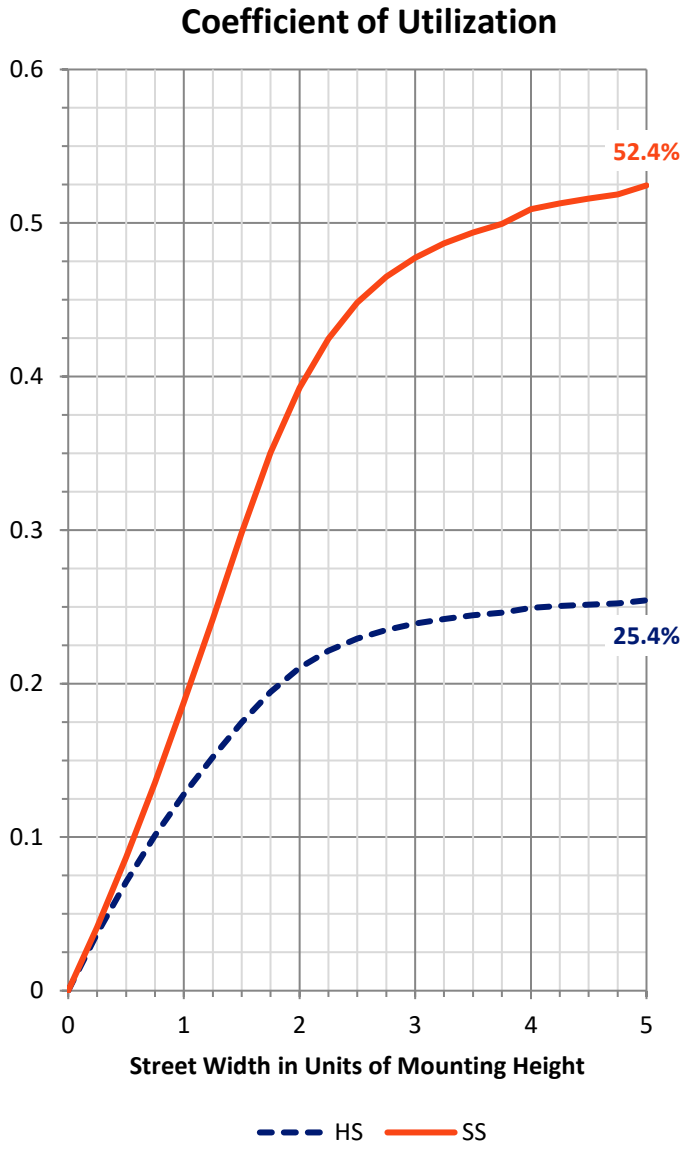
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1277.9	365.1	1643.1
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	2653.0	560.8	3213.9
	% Fixture	54.6	11.5	66.2
Total	Lumens	3931.0	926.0	4856.9
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	27.0	0.6
20°-30°	58.3	1.2
30°-40°	116.8	2.4
40°-50°	255.8	5.3
50°-60°	895.7	18.4
60°-70°	1499.0	30.9
70°-80°	778.0	16.0
80°-90°	295.5	6.1
90°-100°	188.4	3.9
100°-110°	124.9	2.6
110°-120°	130.4	2.7
120°-130°	218.0	4.5
130°-140°	131.2	2.7
140°-150°	69.4	1.4
150°-160°	36.5	0.8
160°-170°	19.8	0.4
170°-180°	7.4	0.2
0°-90°	3931.0	80.9
0°-180°	4856.9	100.0



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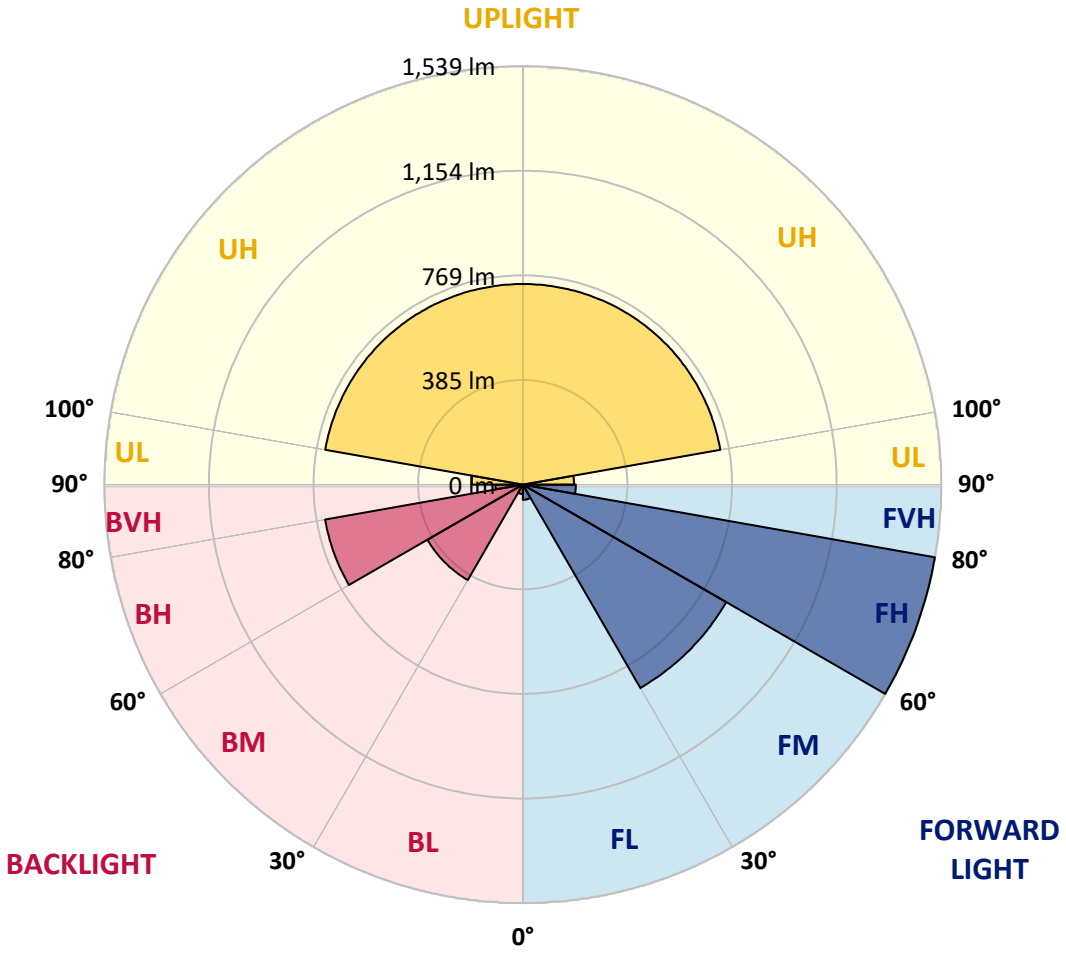
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	56.0	1.2			
FM	(30°-60°)	863.5	17.8			
FH	(60°-80°)	1538.7	31.7			G1/1800
FVH	(80°-90°)	194.9	4.0			G2/225
BL	(0°-30°)	34.2	0.7	B0/110		
BM	(30°-60°)	404.8	8.3	B1/1000		
BH	(60°-80°)	738.3	15.2	B2/1000		G2/1000
BVH	(80°-90°)	100.6	2.1			G2/225
UL	(90°-100°)	188.4	3.9		U3/500	
UH	(100°-180°)	737.5	15.2		U4/1000	

BUG Rating: B2-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2.5°	30.6	30.0	30.0	31.2	32.8	32.8	33.1	32.1	32.1	31.8	32.1
5°	44.5	43.3	43.9	44.2	44.8	45.4	46.0	46.0	44.8	43.9	41.4
7.5°	62.1	61.8	62.4	62.1	61.5	63.0	64.0	66.1	66.7	62.7	57.8
10°	80.0	79.1	78.8	79.1	79.4	78.5	80.3	81.9	79.7	75.1	70.8
12.5°	99.5	99.5	99.5	99.2	99.2	98.9	98.3	97.9	95.8	90.5	83.7
15°	121.1	121.4	122.0	121.7	120.2	117.7	115.9	114.3	113.1	109.4	100.7
17.5°	134.4	133.8	134.4	134.1	133.5	131.9	128.5	125.4	121.4	116.2	109.7
20°	146.8	146.5	146.1	146.1	145.5	143.7	141.5	136.6	131.3	125.8	118.3
22.5°	156.3	155.7	156.3	156.0	155.7	155.1	151.4	147.1	141.2	135.0	127.3
25°	168.7	168.4	168.7	167.8	167.8	166.8	164.7	159.1	152.6	145.8	136.3
27.5°	182.3	181.4	182.3	182.0	180.7	178.3	176.4	170.2	162.2	155.7	147.1
30°	193.7	193.7	194.3	192.5	193.7	191.6	187.2	180.4	173.6	165.3	156.3
32.5°	205.8	205.8	205.2	204.8	206.4	203.6	198.7	190.6	185.1	176.4	168.7
35°	239.5	237.0	241.0	240.7	248.4	242.8	233.6	222.8	214.1	203.0	192.8
37.5°	336.2	334.9	333.1	321.3	307.7	309.9	311.4	299.4	288.6	268.5	244.7
40°	363.7	363.3	363.0	356.2	359.9	350.1	345.1	338.9	337.1	310.8	279.0
42.5°	386.2	382.5	386.2	398.6	418.0	411.2	386.2	354.1	348.2	323.2	310.2
45°	447.4	444.9	451.1	454.8	448.6	437.5	444.6	421.1	405.1	369.5	345.7
47.5°	520.6	518.1	524.0	527.1	539.8	528.0	522.5	502.4	475.5	441.8	410.9
50°	739.1	711.2	733.8	726.1	729.2	702.9	713.4	684.7	660.6	605.3	549.3
52.5°	1043.4	1034.1	1018.7	1001.4	1014.7	986.5	995.2	964.0	920.4	856.2	773.7
55°	1455.2	1424.0	1433.9	1469.5	1462.0	1411.7	1403.0	1327.0	1248.9	1152.8	1065.9
57.5°	1994.1	1978.6	1960.7	1936.9	1913.8	1861.5	1835.9	1750.9	1629.5	1495.4	1374.6
60°	2360.8	2348.5	2340.4	2267.8	2225.2	2120.1	2096.4	2037.3	1929.2	1783.4	1616.8
62°	2433.7	2431.9	2415.5	2370.4	2357.7	2246.5	2174.2	2108.4	2029.0	1881.0	1736.1
62.5°	2433.1	2429.4	2419.8	2382.2	2369.2	2265.1	2186.6	2116.7	2037.7	1892.4	1750.0
65°	2383.7	2375.4	2371.0	2348.5	2342.6	2281.4	2177.3	2105.3	2038.9	1878.8	1760.2
67.5°	2197.7	2207.6	2208.2	2185.6	2166.2	2129.7	2030.2	1967.8	1922.1	1755.3	1643.4
70°	1784.0	1770.7	1757.1	1767.6	1759.0	1739.2	1660.1	1581.6	1524.5	1437.0	1331.0
72.5°	1311.3	1332.3	1332.0	1335.1	1336.6	1286.9	1251.6	1206.5	1175.6	1099.9	1024.2
75°	1051.1	1053.0	1047.1	1025.5	1002.3	973.6	979.7	975.7	960.9	880.9	805.8
77.5°	829.9	809.5	817.8	783.9	753.9	753.6	765.6	777.4	783.9	719.6	661.5
80°	584.3	579.6	572.2	575.3	550.6	557.1	562.9	571.0	558.3	520.3	493.4
82.5°	368.9	364.9	359.0	387.4	411.2	406.0	387.1	356.9	349.8	352.5	346.4
85°	348.8	348.5	343.3	340.5	336.8	328.4	333.1	339.6	335.8	314.8	287.7
87.5°	329.4	328.4	324.4	322.9	315.8	314.8	319.2	321.6	323.2	304.3	281.5
90°	288.6	284.9	281.2	284.3	283.3	283.9	285.2	284.6	285.2	262.9	253.4
92.5°	240.7	239.8	237.0	238.5	240.7	249.3	245.6	239.8	238.8	229.9	220.6
95°	219.7	220.3	216.9	219.1	219.7	219.7	217.2	214.4	212.3	205.2	196.8
97.5°	182.0	179.2	178.0	179.5	180.1	178.0	176.4	171.8	171.5	164.4	160.4
100°	154.8	154.2	153.6	155.4	156.0	155.1	155.4	152.6	152.3	148.3	144.0
102.5°	144.6	144.3	144.0	145.5	146.1	145.5	144.6	141.8	142.4	138.1	135.0
105°	136.6	136.6	136.3	137.2	135.3	134.4	133.2	133.2	133.8	130.4	125.8
107.5°	127.6	127.3	127.6	127.3	125.1	124.2	123.9	123.0	125.1	123.3	118.3

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*129.1*	129.1	128.8	125.4	124.2	122.7	122.0	123.6	123.0	119.9	116.8
112.5°	*158.2*	156.3	157.6	152.9	150.8	152.0	152.6	153.9	156.3	151.4	146.8
115°	*176.7*	177.0	180.1	180.1	175.5	177.7	177.7	177.3	179.8	176.1	171.5
117.5°	*144.3*	146.1	156.0	149.8	151.4	152.6	144.9	142.1	141.5	142.4	152.3
120°	*166.2*	163.8	173.0	153.6	147.7	147.7	153.2	160.4	152.6	140.9	144.0
122.5°	*271.9*	272.2	272.5	280.9	279.9	282.4	278.1	272.5	256.4	256.8	242.2
125°	*416.2*	412.2	412.2	408.5	407.8	402.0	409.4	414.0	401.7	380.6	357.8
127.5°	*398.3*	406.9	403.8	394.6	385.6	382.5	391.2	405.7	398.6	380.0	359.0
130°	*282.7*	284.9	284.3	294.1	296.6	293.5	296.6	286.1	287.7	292.0	280.9
132.5°	*237.0*	235.7	240.1	253.7	258.9	252.7	244.1	236.4	236.7	245.9	245.3
135°	*204.2*	203.3	206.4	207.0	212.9	207.9	200.2	200.2	202.1	204.2	203.3
137.5°	*184.5*	183.2	184.1	177.0	169.9	169.6	175.8	179.2	177.3	175.2	172.7
140°	*158.8*	159.4	157.9	152.0	148.9	149.5	153.6	158.8	157.3	152.6	148.9
142.5°	*126.4*	125.1	127.0	131.3	137.5	137.5	131.3	124.8	124.5	126.7	129.8
145°	*124.5*	123.9	124.2	123.3	124.5	123.3	121.4	119.6	117.4	115.9	114.6
147.5°	*135.0*	135.0	134.7	133.2	131.9	129.8	130.4	132.5	133.8	132.5	130.7
150°	*109.7*	110.6	110.6	110.3	109.1	110.0	111.2	111.8	113.1	113.1	111.2
152.5°	*84.3*	84.0	85.0	83.7	83.4	84.0	85.6	86.8	87.1	87.1	84.7
155°	*80.3*	79.7	80.3	79.7	79.1	79.7	80.9	81.6	82.2	81.3	78.8
157.5°	*75.1*	75.1	75.1	74.5	74.8	74.8	75.4	75.7	76.0	75.7	75.1
160°	*71.1*	71.1	71.4	71.1	71.1	71.7	71.4	71.1	71.1	70.8	70.4
162.5°	*68.6*	68.6	68.6	68.6	68.3	68.3	68.6	68.3	68.0	67.7	68.3
165°	*67.4*	67.0	67.0	67.0	67.4	67.0	67.0	67.0	66.7	67.7	68.9
167.5°	*69.8*	69.2	69.5	69.8	69.8	69.5	69.5	69.5	70.1	71.1	72.0
170°	*73.2*	72.9	72.9	73.2	73.2	72.9	72.9	72.9	73.2	73.5	73.8
172.5°	*76.0*	75.7	75.7	75.7	75.4	75.1	75.1	75.1	75.1	75.1	75.4
175°	*78.8*	78.8	78.8	78.8	78.5	78.2	78.2	78.2	78.2	78.2	78.2
177.5°	*81.9*	81.6	81.9	81.6	81.6	81.6	81.3	80.9	80.6	80.6	80.6
180°	*81.3*	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2.5°	31.5	31.2	29.4	27.8	26.6	25.3	23.5	21.9	20.7	20.4	20.4
5°	40.8	40.2	38.3	35.8	34.6	32.8	30.9	29.7	28.1	27.5	27.8
7.5°	56.2	56.5	57.2	58.4	57.8	52.5	46.7	45.4	46.7	48.5	49.4
10°	69.8	68.9	68.6	72.6	71.7	64.0	56.2	53.8	55.9	59.9	61.8
12.5°	80.9	79.1	78.8	79.4	75.7	67.4	60.9	58.1	59.3	62.4	62.1
15°	97.3	94.5	90.5	88.1	83.4	77.6	69.5	64.9	64.9	64.9	64.6
17.5°	106.9	103.8	96.1	89.0	83.1	78.8	73.5	69.2	64.6	64.0	63.6
20°	115.2	110.6	102.3	94.5	87.1	80.9	73.5	68.3	64.3	63.6	63.3
22.5°	122.4	118.0	109.1	99.8	90.5	83.4	75.4	69.8	65.8	64.6	64.3
25°	131.9	127.3	117.1	106.3	95.5	86.5	79.1	72.6	67.7	65.2	65.2
27.5°	141.5	136.3	124.8	113.7	102.0	90.8	82.5	76.0	69.8	66.4	66.1
30°	150.8	144.9	132.5	119.9	108.1	96.4	86.8	79.4	72.6	68.9	68.6
32.5°	163.8	157.0	142.4	126.7	114.9	102.3	91.5	82.8	75.7	72.0	71.4
35°	189.1	181.4	165.0	144.6	126.1	109.1	96.1	84.7	77.9	73.8	73.5
37.5°	236.1	227.1	204.2	179.2	153.9	128.2	104.4	87.1	79.4	75.7	75.1
40°	264.2	246.6	222.5	202.7	183.5	158.8	128.2	101.0	82.5	78.2	77.6
42.5°	300.6	282.4	247.5	209.8	185.4	165.9	144.3	126.7	100.1	84.7	81.9
45°	335.2	321.3	291.4	251.2	214.1	180.4	153.6	136.6	119.6	102.0	99.2
47.5°	393.3	372.9	333.4	292.3	254.6	216.9	185.1	152.0	130.1	119.6	119.0
50°	542.2	505.2	448.0	398.9	327.8	270.0	232.3	188.2	160.0	143.7	138.4
52.5°	734.7	696.1	630.9	559.9	481.1	406.6	332.8	269.4	223.7	195.0	195.9
55°	1021.5	982.8	887.1	765.3	657.2	579.6	500.5	423.6	350.1	307.7	302.5
57.5°	1323.9	1289.3	1207.5	1058.8	886.7	743.4	649.5	595.1	557.4	511.3	511.3
60°	1545.8	1488.3	1395.6	1245.8	1093.1	904.7	784.2	706.3	699.5	691.5	697.7
62°	*1659.2*	*1585.0*	*1452.8*	*1284.4*	*1142.6*	*974.8*	*857.7*	*780.5*	*766.9*	*736.6*	*737.2*
62.5°	1678.3	1596.4	1462.4	1284.4	1146.9	981.0	865.7	790.3	771.5	734.4	735.0
65°	1697.5	1598.9	1469.5	1263.7	1122.5	959.7	871.0	772.7	723.3	661.2	643.0
67.5°	1587.5	1486.4	1375.5	1175.0	1028.2	871.0	772.7	674.2	593.5	530.5	520.6
70°	1289.3	1209.9	1124.3	971.1	842.9	715.6	632.2	543.2	462.8	393.3	397.6
72.5°	978.5	904.4	825.9	728.5	648.8	563.3	489.4	417.7	351.0	307.7	315.8
75°	757.9	708.5	652.9	582.1	521.5	442.4	358.4	294.8	249.6	223.4	224.9
77.5°	623.2	571.9	526.5	461.6	404.1	323.2	242.2	187.9	161.6	149.8	146.8
80°	479.2	441.8	401.7	343.6	280.2	217.8	162.8	137.5	120.2	111.5	108.1
82.5°	334.6	311.4	277.8	235.7	199.3	176.4	152.6	131.3	113.4	105.4	101.7
85°	275.6	263.2	244.7	220.9	199.3	173.9	147.4	125.8	110.3	104.1	100.7
87.5°	268.5	260.2	239.1	213.8	187.9	161.9	135.0	114.9	105.0	101.0	97.9
90°	246.2	236.7	221.8	196.8	173.6	145.8	123.9	111.8	104.4	99.8	96.4
92.5°	214.7	209.5	195.9	178.0	161.9	144.0	128.2	117.4	109.7	104.1	100.7
95°	190.9	184.8	177.0	162.5	149.2	134.7	120.2	110.0	102.0	96.1	93.3
97.5°	157.0	152.6	145.2	135.6	125.8	114.0	103.8	97.0	91.8	89.0	87.1
100°	142.4	139.7	135.3	128.5	120.5	112.2	104.7	101.0	98.9	97.0	96.1
102.5°	131.9	128.8	125.4	118.3	112.2	104.7	99.8	96.7	93.9	90.8	90.2
105°	122.7	120.2	115.6	109.7	103.5	96.4	90.5	88.7	86.2	83.4	83.1
107.5°	115.6	113.1	109.1	102.9	97.3	91.1	85.9	83.1	80.3	78.8	78.5

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

Scaled Data Report

REPORT NUMBER: P1046387
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	114.9	113.1	108.8	103.5	99.2	93.0	87.1	86.2	83.1	79.4	79.1
112.5°	143.4	137.5	129.1	120.5	113.1	106.9	99.5	92.1	85.9	82.2	81.6
115°	166.2	160.4	150.2	137.5	125.8	112.5	99.8	90.5	87.1	86.2	87.4
117.5°	156.3	144.0	126.7	119.0	108.8	101.7	96.7	94.5	89.0	90.5	92.1
120°	150.2	141.8	126.7	125.4	120.8	112.8	101.3	98.9	95.8	93.3	93.0
122.5°	241.3	233.3	216.0	189.7	161.3	142.1	135.0	120.2	102.3	88.7	86.5
125°	342.0	329.1	295.1	266.0	228.3	187.9	151.4	120.2	95.8	82.8	81.3
127.5°	348.8	334.3	304.6	265.4	217.5	168.1	130.4	107.8	91.5	82.8	81.3
130°	271.9	262.6	240.7	203.9	170.9	141.5	120.2	102.0	87.1	80.6	79.7
132.5°	240.4	232.0	200.8	170.2	148.3	125.8	107.8	90.5	77.9	73.5	72.9
135°	198.7	189.4	168.7	149.8	133.8	115.6	97.6	82.8	73.8	71.7	71.4
137.5°	169.6	165.3	149.8	136.6	122.0	106.3	91.5	80.0	74.5	72.6	72.3
140°	146.5	145.5	135.9	124.2	109.7	93.0	81.6	74.8	72.6	71.7	71.4
142.5°	129.5	128.2	117.7	104.1	91.1	82.5	78.2	76.0	74.2	71.7	71.1
145°	112.2	110.0	103.5	97.6	93.6	90.8	86.8	80.0	72.9	69.2	68.9
147.5°	127.6	123.9	116.8	108.4	99.8	90.8	82.5	75.4	69.5	67.4	67.0
150°	107.2	106.9	102.3	95.8	89.3	81.3	75.1	70.4	68.0	67.7	67.7
152.5°	83.1	83.1	83.1	81.6	78.5	74.2	69.5	66.7	66.7	68.0	68.3
155°	78.2	78.5	78.8	78.2	75.7	71.7	67.7	66.4	66.7	68.0	68.3
157.5°	74.5	74.5	74.8	74.2	72.9	70.1	67.4	66.1	66.4	67.0	67.4
160°	70.1	70.1	70.4	70.4	69.2	68.3	67.0	66.1	66.1	66.4	66.7
162.5°	68.6	68.6	68.6	68.6	68.3	68.3	68.3	68.3	68.0	68.0	68.0
165°	69.2	69.2	68.3	68.0	68.6	69.5	71.1	71.4	69.8	69.5	69.5
167.5°	72.3	72.3	71.4	70.8	71.7	72.6	74.8	75.4	74.2	72.9	72.9
170°	74.2	74.2	74.2	74.5	74.8	75.7	76.9	77.6	77.2	76.9	76.9
172.5°	75.4	75.4	76.0	76.6	77.6	78.2	78.8	79.4	80.0	80.0	80.3
175°	77.9	78.2	78.8	79.1	79.7	80.3	80.9	81.6	81.9	81.9	81.9
177.5°	80.3	80.3	80.3	80.6	80.9	81.3	81.6	81.9	81.9	82.2	82.5
180°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3

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: SP1-2501-332-9

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

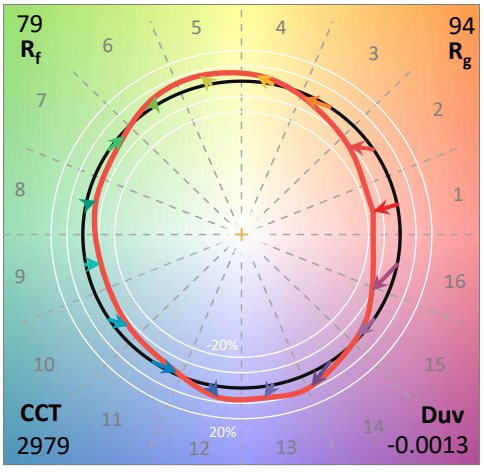
Test Information

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

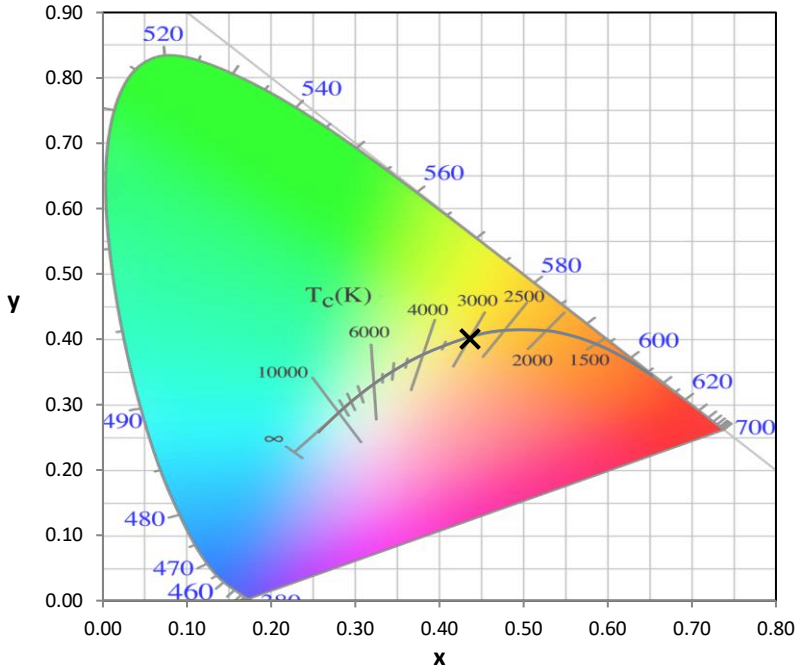
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

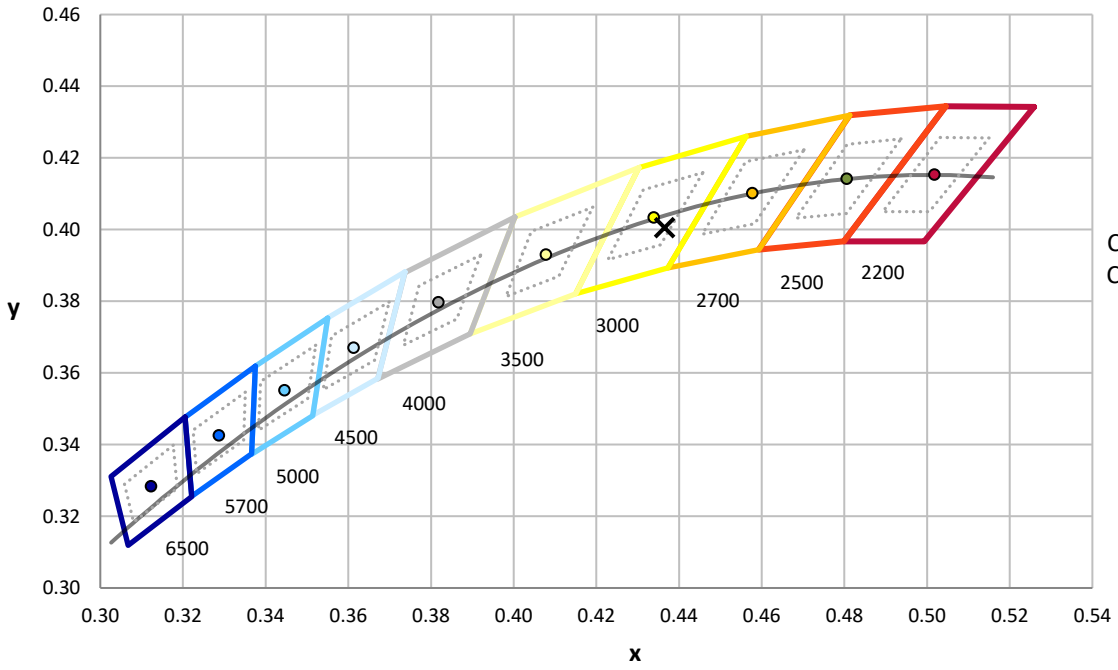
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

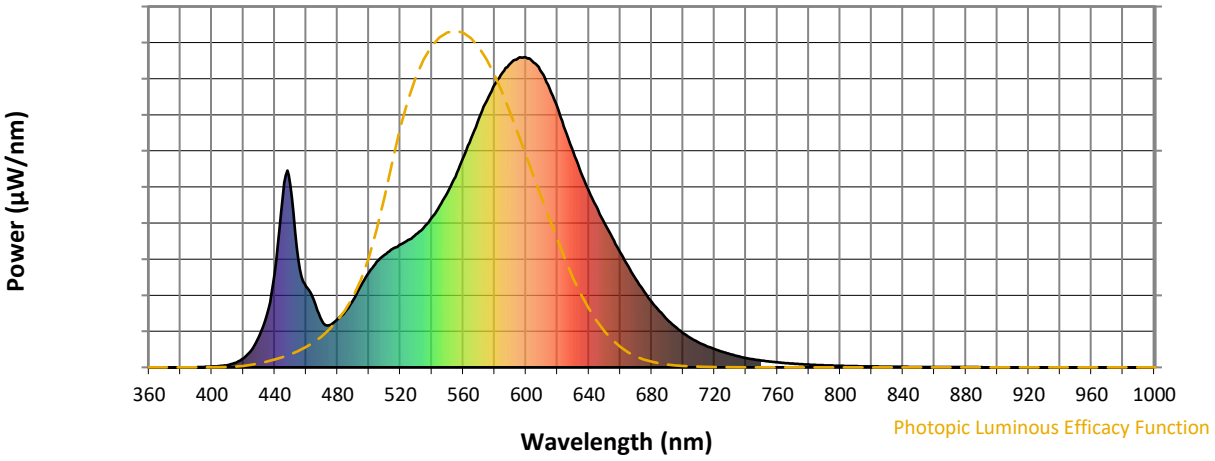


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

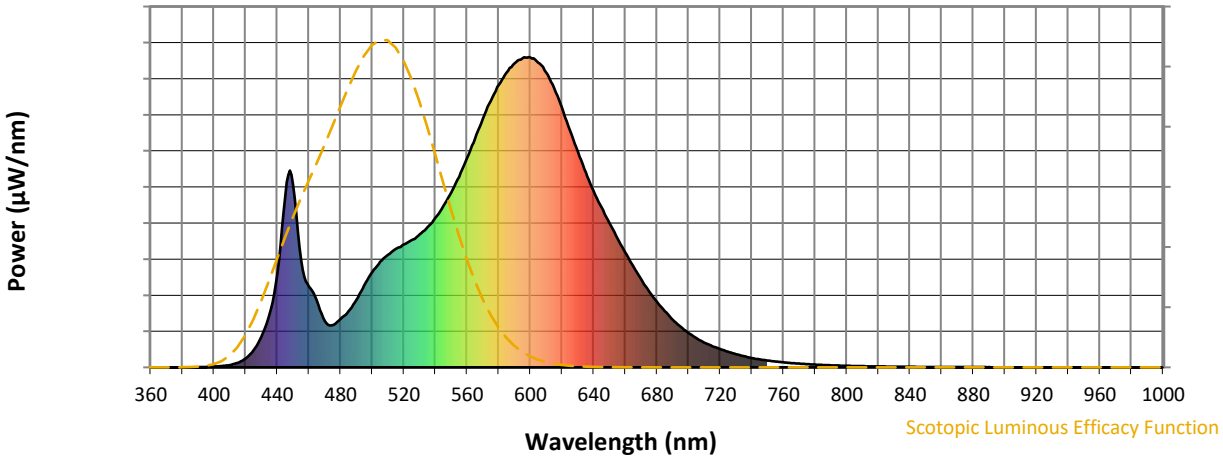


Photopic Lumens: NR

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

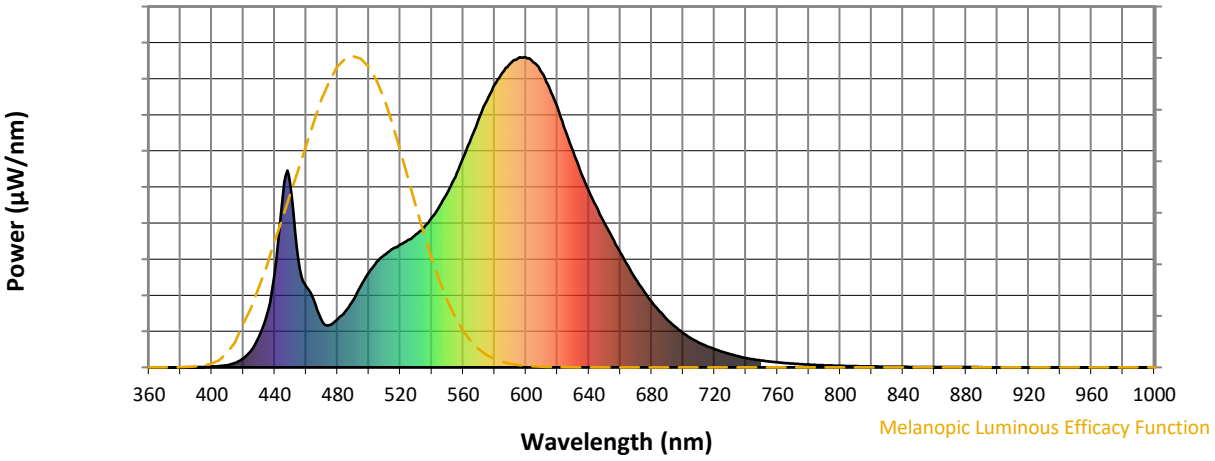


Scotopic Lumens: NR **S/P: 1.29**

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			

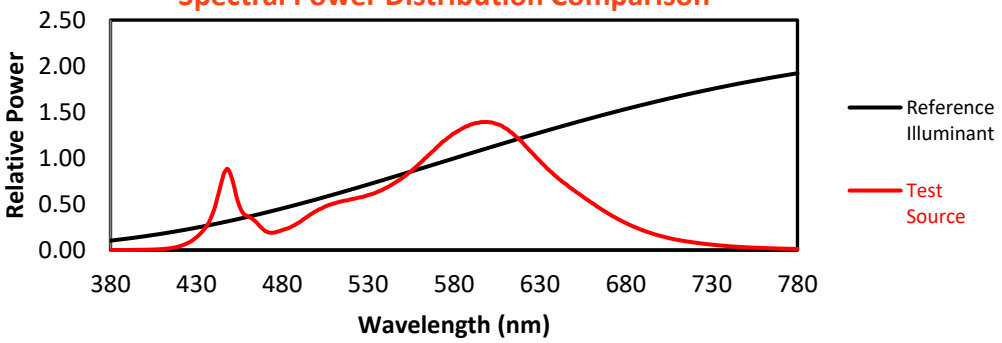
REPORT NUMBER: SP1-2501-332-9

TM-30-18

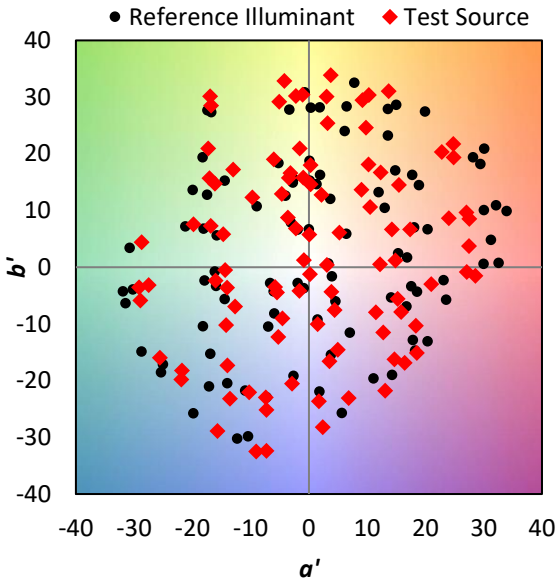
Summary

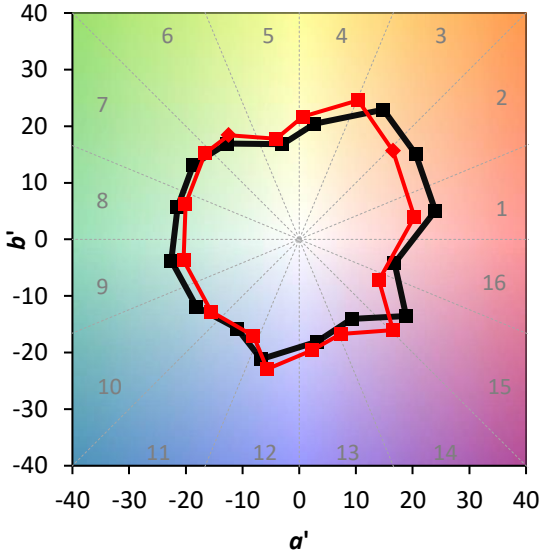
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

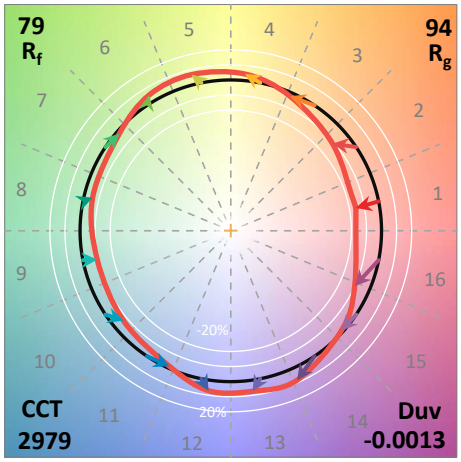
Spectral Power Distribution Comparison

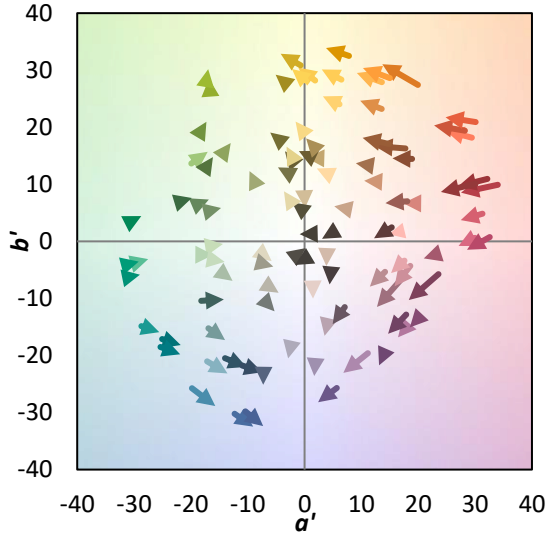


Color Vector Graphics







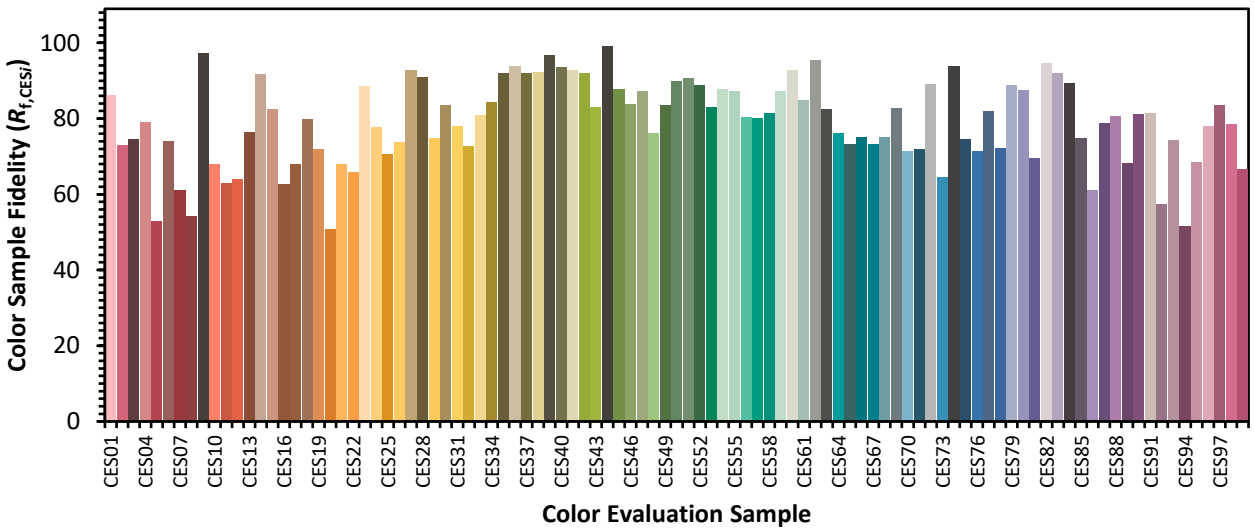


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

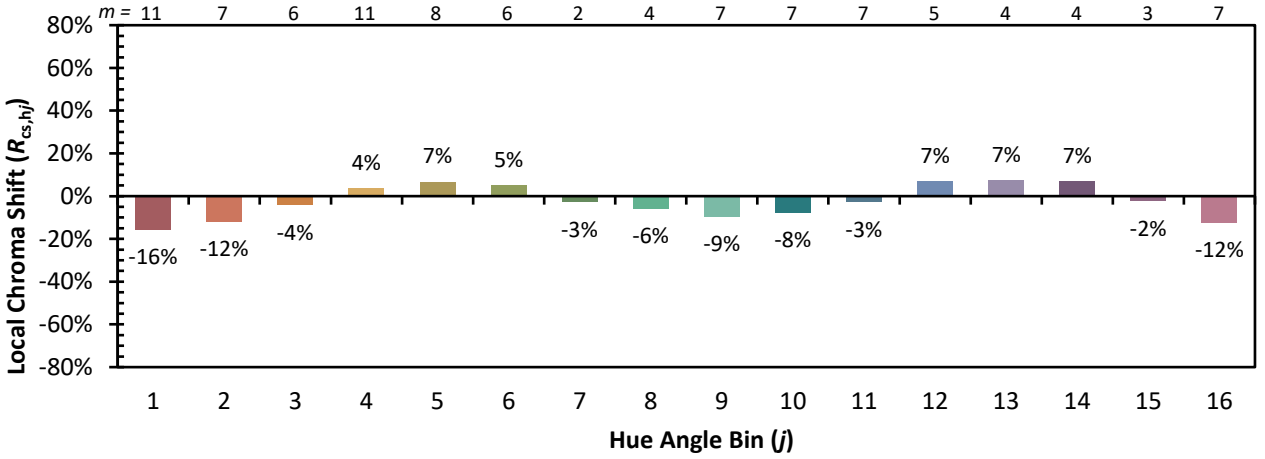
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 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	

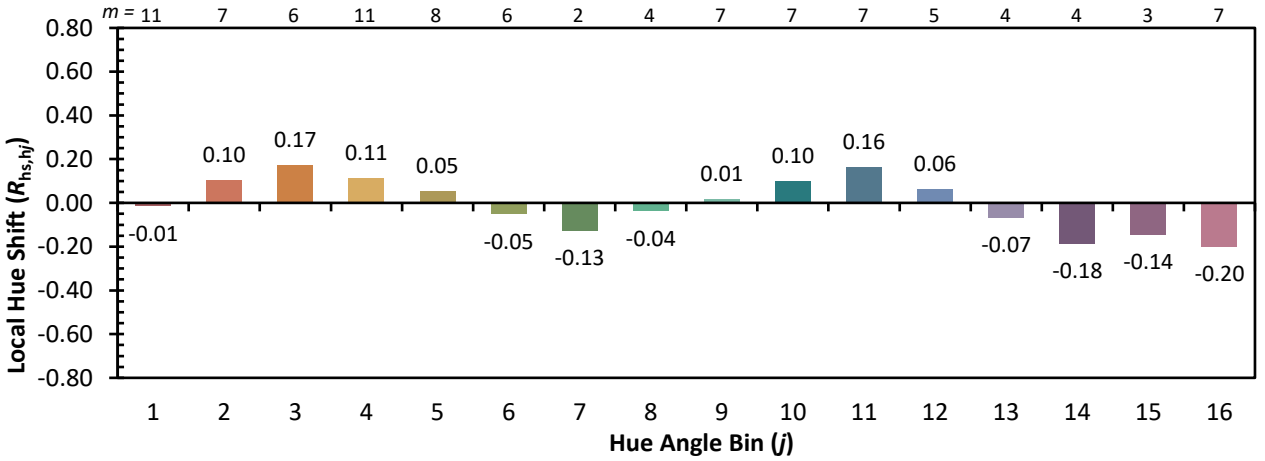


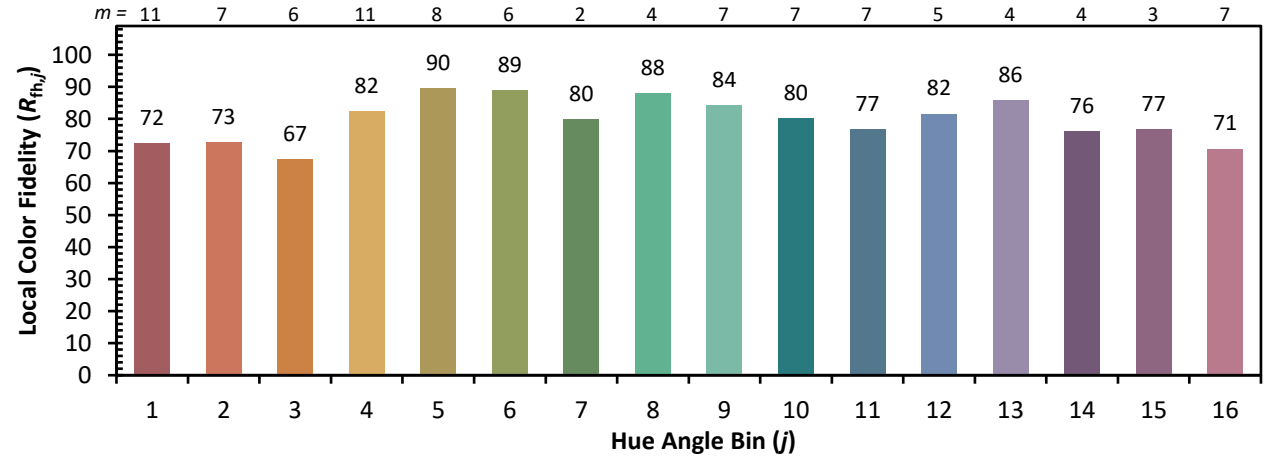
REPORT NUMBER: SP1-2501-332-9

TM-30-18

Color Rendition by Hue-Angle Bin



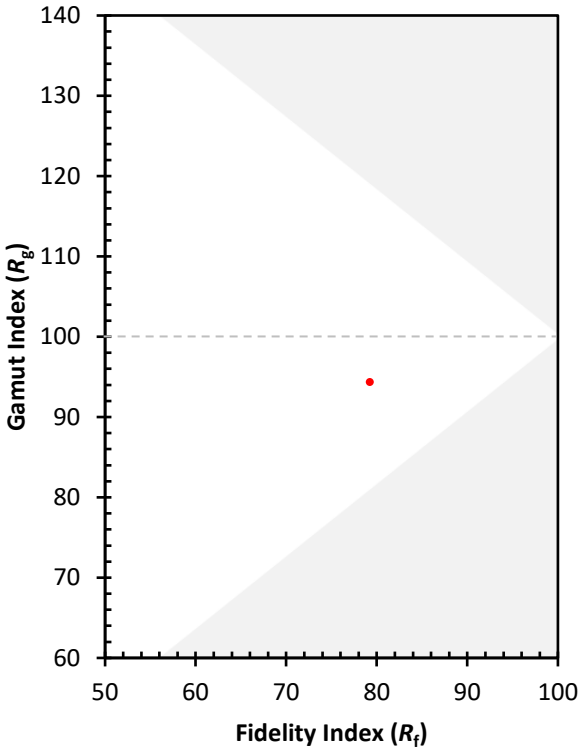


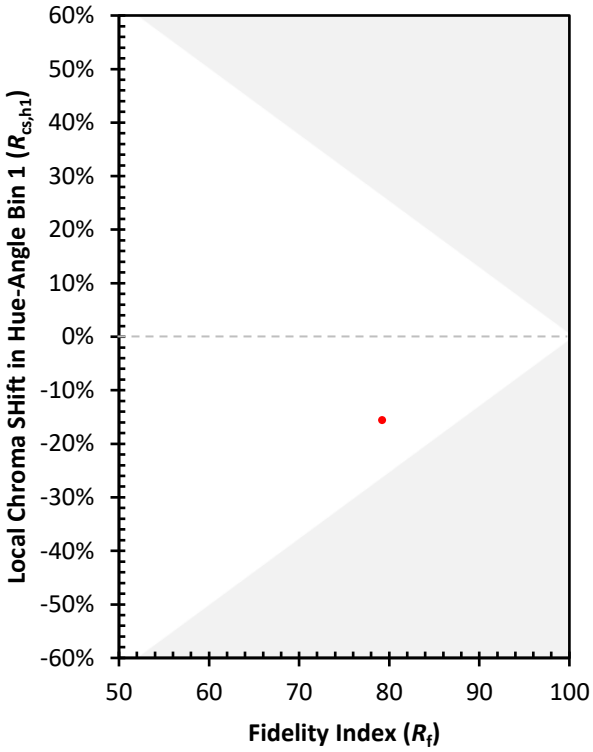


REPORT NUMBER: SP1-2501-332-9

TM-30-18

Measure Comparisons





(END OF REPORT)