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: P1045735

Luminaire Tested: **FFX-CLB-70-722-U-FR-T5-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045735
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6057.2 lumens
Efficiency:	N/A
Efficacy:	85.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

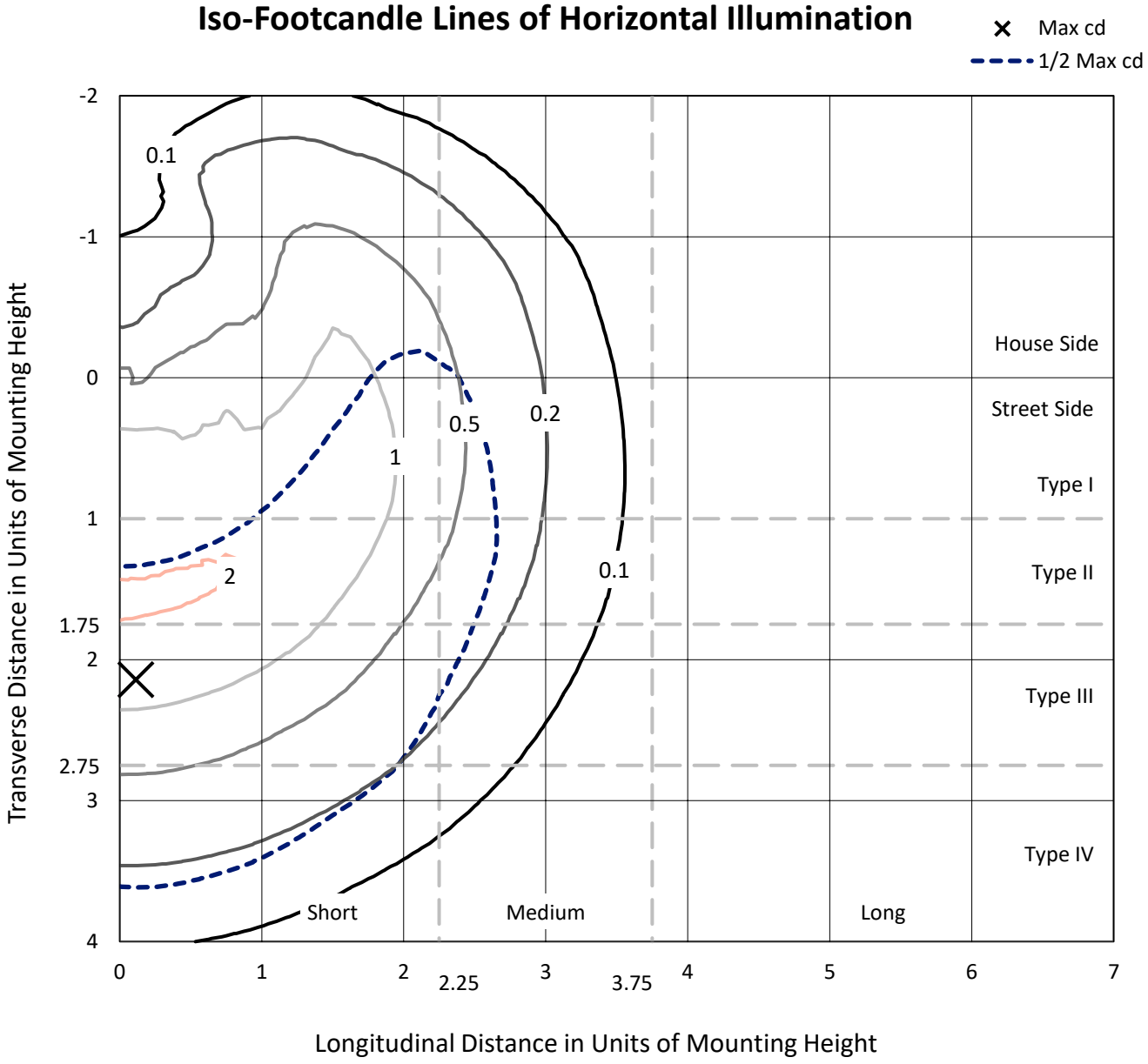


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045735
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T5-UPLR-HSS

Iso-Footcandle Lines of Horizontal Illumination



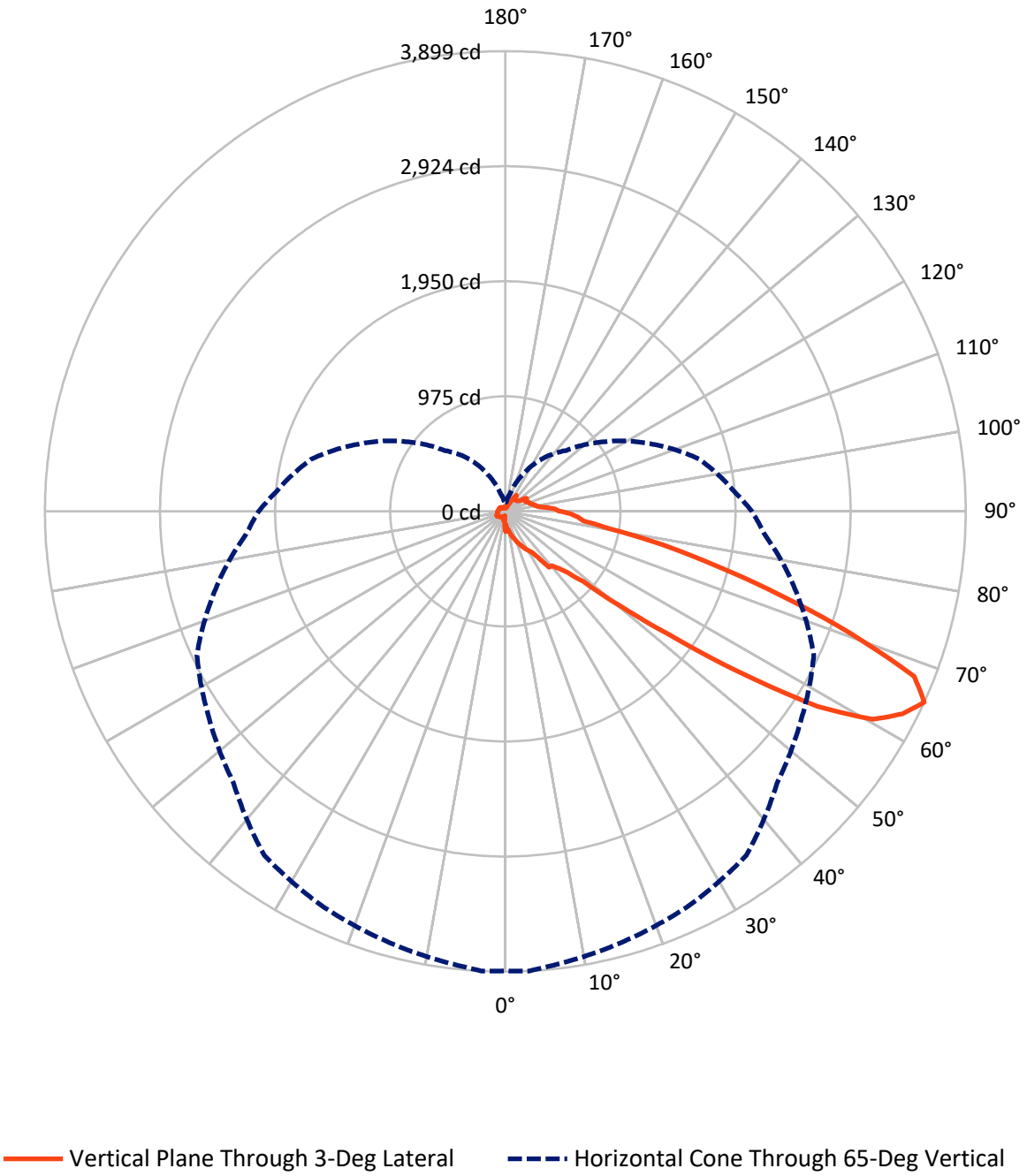
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045735
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T5-UPLR-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

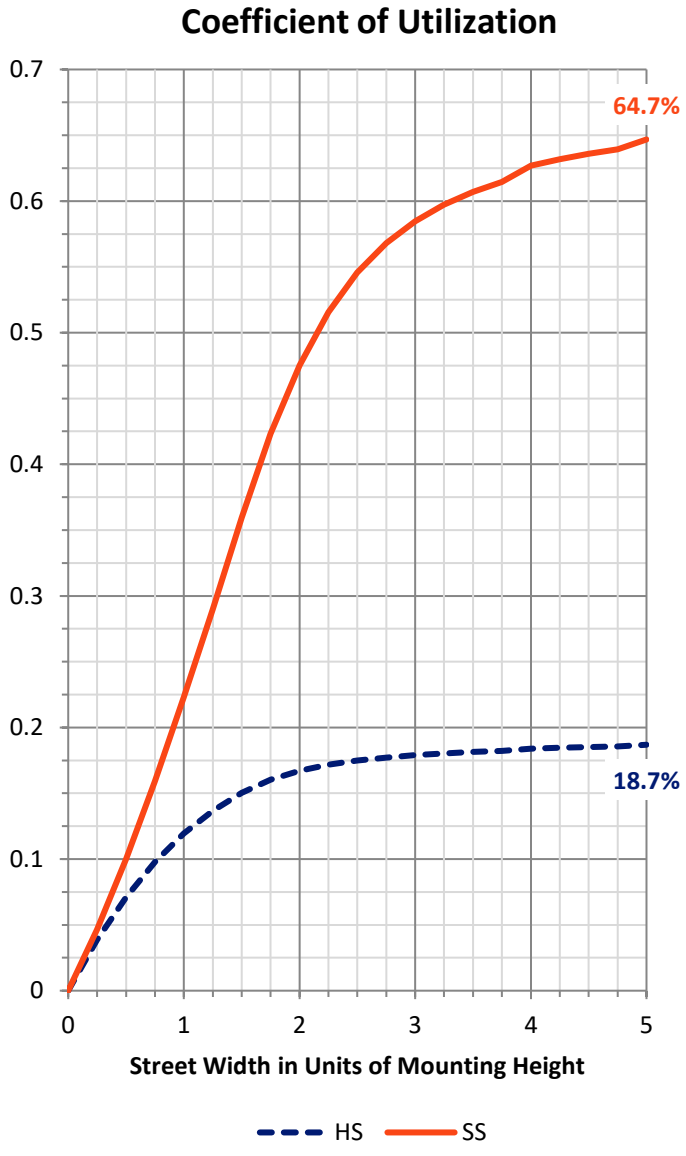
REPORT NUMBER: P1045735
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T5-UPLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1171.9	254.8	1426.7
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	4086.4	544.1	4630.5
	% Fixture	67.5	9.0	76.4
Total	Lumens	5258.3	798.9	6057.2
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.2
10°-20°	41.3	0.7
20°-30°	92.1	1.5
30°-40°	186.1	3.1
40°-50°	373.8	6.2
50°-60°	1199.7	19.8
60°-70°	1913.6	31.6
70°-80°	1040.9	17.2
80°-90°	400.0	6.6
90°-100°	238.4	3.9
100°-110°	158.2	2.6
110°-120°	126.1	2.1
120°-130°	105.1	1.7
130°-140°	72.4	1.2
140°-150°	58.4	1.0
150°-160°	26.1	0.4
160°-170°	10.6	0.2
170°-180°	3.6	0.1
0°-90°	5258.3	86.8
0°-180°	6057.2	100.0



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

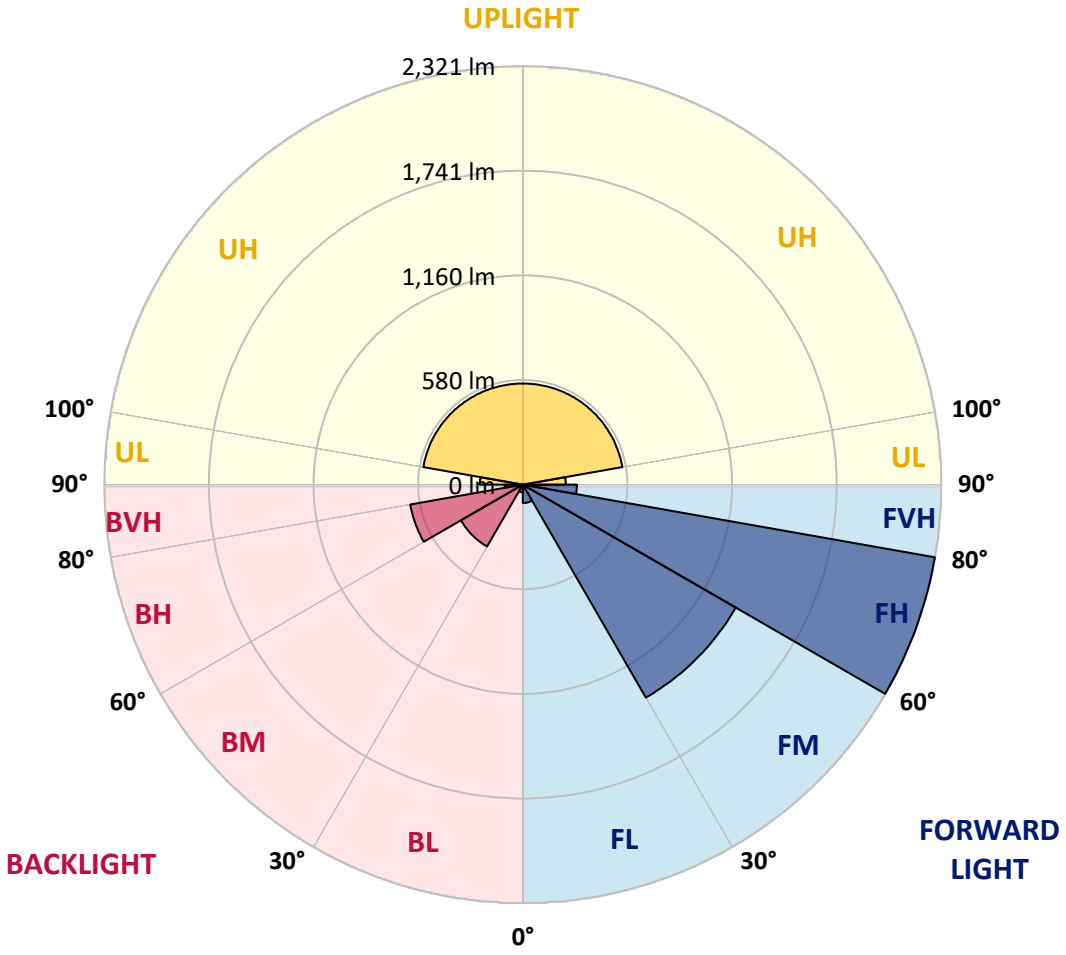
Scaled Data Report

REPORT NUMBER: P1045735
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T5-UPLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	102.1	1.7			
FM	(30°-60°)	1363.7	22.5			
FH	(60°-80°)	2320.7	38.3			G2/5000
FVH	(80°-90°)	299.9	5.0			G3/500
BL	(0°-30°)	42.0	0.7	B0/110		
BM	(30°-60°)	396.0	6.5	B1/1000		
BH	(60°-80°)	633.7	10.5	B2/1000		G2/1000
BVH	(80°-90°)	100.1	1.7			G2/225
UL	(90°-100°)	238.4	3.9		U3/500	
UH	(100°-180°)	560.5	9.3		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045735
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2
2.5°	110.7	110.0	112.0	121.8	146.8	155.2	148.2	136.4	134.3	146.8	156.6
5°	151.0	149.6	148.2	138.5	128.7	133.6	147.5	151.0	137.1	111.3	94.6
7.5°	153.1	151.7	152.4	152.4	150.3	141.3	130.8	135.7	147.5	131.5	103.7
10°	170.5	169.8	169.8	169.1	167.0	164.2	163.5	153.1	135.0	121.1	115.5
12.5°	199.0	199.0	198.3	197.6	195.6	190.7	184.4	176.1	170.5	153.8	136.4
15°	222.0	219.9	221.3	219.2	215.7	213.0	205.3	196.3	179.6	168.4	153.1
17.5°	244.3	244.3	245.0	241.5	237.3	235.2	226.9	215.0	199.0	179.6	164.9
20°	272.1	270.0	270.0	266.5	261.7	254.7	247.1	236.6	223.4	196.9	177.5
22.5°	298.6	299.3	299.3	293.7	286.0	279.8	269.3	256.8	244.3	217.1	192.1
25°	328.5	327.8	327.1	326.4	318.7	307.6	294.4	281.2	272.1	245.7	210.9
27.5°	356.3	354.9	354.2	357.7	350.8	339.6	320.1	304.1	294.4	267.2	228.3
30°	386.9	386.2	386.2	387.6	384.9	367.5	346.6	327.8	313.9	286.7	245.0
32.5°	414.1	412.7	413.4	419.0	418.3	396.0	377.2	354.2	336.8	315.3	269.3
35°	480.9	478.1	482.3	490.6	496.9	473.2	447.5	412.0	385.5	363.3	316.0
37.5°	601.3	602.0	603.4	592.2	568.6	551.2	538.7	510.1	477.4	439.8	384.2
40°	606.2	605.5	608.9	625.6	635.4	605.5	576.2	542.8	534.5	502.5	431.5
42.5°	662.5	658.4	661.8	677.8	691.1	673.0	647.2	590.8	560.2	531.7	473.2
45°	743.3	738.4	744.6	747.4	744.6	725.2	729.3	683.4	654.9	597.1	515.7
47.5°	866.4	888.7	892.2	892.9	920.7	894.3	877.6	833.7	769.0	700.1	607.5
50°	1216.5	1252.7	1240.2	1228.3	1230.4	1210.2	1187.3	1126.7	1039.7	923.5	791.3
52.5°	1736.4	1722.4	1724.5	1732.2	1751.7	1661.9	1622.9	1531.7	1391.2	1252.0	1061.3
55°	2372.4	2396.1	2394.7	2419.8	2416.3	2319.5	2196.4	2043.3	1838.7	1634.7	1409.3
57.5°	3158.8	3117.1	3089.2	3043.3	3003.6	2872.1	2790.7	2625.1	2354.3	2048.1	1758.6
60°	3600.1	3577.1	3570.1	3506.8	3452.5	3291.1	3123.3	2943.8	2732.2	2370.3	2041.9
62.5°	3765.7	3776.8	3767.1	3726.0	3689.8	3548.6	3266.7	3071.2	2881.9	2533.9	2188.0
65°	3893.1	3899.3	3877.0	3783.8	3685.0	3558.3	3254.9	3062.1	2882.6	2540.2	2201.9
67.5°	3737.2	3735.8	3718.4	3584.1	3417.0	3291.8	3016.2	2808.8	2656.4	2370.3	2044.0
70°	3103.2	3107.3	3110.8	3012.0	2829.0	2735.7	2456.6	2278.5	2147.0	1899.9	1665.4
72.5°	2429.5	2442.0	2447.6	2370.3	2234.6	2138.6	1952.1	1818.5	1696.0	1499.7	1315.3
75°	1827.5	1840.0	1836.6	1788.5	1693.2	1666.8	1576.3	1462.2	1359.9	1207.4	1051.6
77.5°	1371.0	1360.5	1357.8	1311.1	1217.2	1224.1	1198.4	1133.0	1053.6	963.9	855.3
80°	908.2	899.1	881.1	897.1	889.4	867.1	824.7	791.3	760.0	706.4	647.2
82.5°	668.1	665.3	661.8	651.4	644.4	638.9	620.1	566.5	528.9	498.3	462.8
85°	624.9	616.6	618.0	599.9	578.3	558.8	544.2	521.3	492.0	444.0	392.5
87.5°	545.6	545.6	541.4	528.9	507.3	502.5	492.0	476.0	458.6	421.7	375.8
90°	453.7	451.0	451.0	450.3	445.4	441.9	421.7	407.1	399.5	362.6	330.6
92.5°	419.0	417.6	414.8	411.3	397.4	394.6	374.4	355.6	338.9	316.0	290.9
95°	340.3	343.1	336.8	336.1	329.2	325.0	309.0	299.9	288.8	270.0	247.1
97.5°	287.4	283.2	283.9	277.7	270.7	267.9	258.2	245.0	234.5	219.9	203.2
100°	263.8	263.1	261.7	256.8	247.1	240.8	230.4	217.8	207.4	194.2	180.2
102.5°	248.4	247.8	247.1	242.9	231.7	228.3	218.5	208.8	199.7	187.9	169.8
105°	233.1	232.4	231.0	226.2	219.2	215.7	206.7	201.1	192.1	181.6	164.2
107.5°	219.2	219.2	218.5	213.0	208.8	206.0	196.9	192.1	182.3	173.3	156.6
110°	212.3	212.3	211.6	207.4	199.0	194.9	186.5	180.2	171.2	162.2	148.9

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

Scaled Data Report

REPORT NUMBER: P1045735
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	204.6	*205.3*	205.3	206.7	186.5	178.9	171.9	167.0	159.4	151.0	139.9
115°	187.2	*187.9*	187.2	194.2	187.2	176.8	172.6	164.2	154.5	141.3	129.4
117.5°	188.6	*188.6*	190.0	193.5	190.0	180.2	171.2	160.8	152.4	139.2	128.7
120°	213.7	*212.3*	212.3	205.3	203.9	194.9	188.6	177.5	163.5	150.3	135.7
122.5°	205.3	*204.6*	205.3	194.2	193.5	191.4	189.3	187.2	169.1	161.5	142.7
125°	164.2	*162.8*	162.2	158.0	164.9	160.1	158.7	163.5	151.7	144.8	134.3
127.5°	146.8	*145.5*	144.8	143.4	147.5	139.2	137.8	139.2	130.1	121.8	115.5
130°	140.6	*138.5*	138.5	143.4	149.6	142.7	135.0	129.4	126.0	120.4	110.0
132.5°	132.9	*132.9*	133.6	139.9	151.0	143.4	129.4	118.3	116.9	117.6	112.7
135°	130.8	*130.1*	130.8	128.7	128.1	123.9	117.6	108.6	106.5	112.0	106.5
137.5°	134.3	*133.6*	132.9	127.4	121.1	117.6	116.2	110.7	105.1	101.6	96.0
140°	132.9	*132.9*	132.2	130.8	126.7	119.7	118.3	112.7	107.2	100.9	94.0
142.5°	135.0	*137.1*	138.5	139.9	138.5	130.8	123.2	114.1	107.9	104.4	96.7
145°	166.3	*166.3*	166.3	163.5	158.7	152.4	146.8	140.6	135.7	124.6	114.1
147.5°	137.8	*137.8*	137.1	137.8	137.8	135.0	134.3	132.2	132.9	127.4	116.9
150°	95.3	*97.4*	97.4	100.9	102.3	100.9	100.9	102.3	100.2	99.5	94.0
152.5°	77.2	*76.6*	75.2	76.6	76.6	77.2	77.2	75.9	75.2	75.2	71.7
155°	68.2	*68.2*	68.2	67.5	66.1	66.8	67.5	67.5	65.4	64.0	61.2
157.5°	54.3	*53.6*	53.6	55.0	55.0	55.0	55.0	55.0	55.0	55.7	56.4
160°	45.9	*44.5*	45.2	45.2	45.9	46.6	45.9	46.6	46.6	47.3	46.6
162.5°	37.6	*36.9*	36.9	37.6	38.3	39.0	39.7	39.7	40.4	41.8	42.5
165°	33.4	*33.4*	33.4	34.1	34.1	34.8	35.5	36.2	37.6	39.7	40.4
167.5°	31.3	*31.3*	31.3	31.3	32.0	32.7	34.1	36.2	37.6	39.7	39.7
170°	30.6	*30.6*	31.3	31.3	31.3	32.0	34.8	36.9	37.6	38.3	38.3
172.5°	32.0	*32.0*	32.0	32.0	32.0	33.4	36.9	37.6	37.6	37.6	38.3
175°	33.4	*33.4*	32.7	32.7	33.4	34.1	34.8	38.3	39.7	40.4	41.8
177.5°	31.3	*31.3*	31.3	32.0	32.0	32.7	33.4	34.8	34.8	36.2	38.3
180°	34.8	*34.8*	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8

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

Scaled Data Report

REPORT NUMBER: P1045735
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2
2.5°	163.5	175.4	160.8	145.5	134.3	140.6	147.5	142.0	135.7	136.4	124.6
5°	98.1	100.9	102.3	89.1	73.8	82.1	100.2	94.0	72.4	40.4	34.8
7.5°	94.6	90.5	89.1	98.8	89.8	59.9	46.6	42.5	56.4	67.5	71.0
10°	112.0	107.2	96.7	79.3	70.3	66.1	64.7	61.9	53.6	41.8	39.7
12.5°	128.7	123.2	113.4	105.1	93.3	77.9	68.2	65.4	70.3	78.6	78.6
15°	145.5	137.8	125.3	114.1	105.1	88.4	75.9	64.7	63.3	65.4	65.4
17.5°	157.3	148.9	134.3	119.0	103.0	87.0	72.4	61.2	56.4	55.0	55.0
20°	169.1	161.5	144.1	127.4	107.9	89.1	72.4	60.5	55.0	52.9	52.2
22.5°	184.4	174.7	155.2	137.1	113.4	90.5	71.7	61.2	55.0	51.5	50.8
25°	201.8	190.7	168.4	146.8	119.0	91.9	72.4	61.9	55.7	51.5	50.8
27.5°	215.7	203.9	182.3	158.0	126.0	95.3	75.2	63.3	56.4	52.2	51.5
30°	231.7	219.2	194.9	169.8	134.3	100.9	80.7	67.5	59.2	53.6	53.6
32.5°	256.1	239.4	212.3	180.9	142.7	107.2	87.0	72.4	61.9	57.8	57.8
35°	295.8	279.1	242.9	202.5	151.7	113.4	91.9	77.2	65.4	59.9	59.9
37.5°	359.1	334.0	293.7	238.0	166.3	118.3	97.4	80.7	67.5	59.9	58.5
40°	396.0	368.1	317.3	264.5	184.4	124.6	101.6	83.5	68.9	60.5	59.9
42.5°	437.0	405.0	339.6	271.4	196.3	139.2	107.9	86.3	70.3	62.6	61.2
45°	480.2	449.6	390.4	308.3	224.1	159.4	118.3	91.9	74.5	65.4	64.0
47.5°	558.8	521.3	444.7	360.5	265.2	191.4	141.3	100.9	79.3	68.2	66.8
50°	735.6	700.8	594.3	468.4	330.6	237.3	176.8	119.7	87.0	70.3	68.2
52.5°	975.0	913.1	792.7	634.7	461.4	332.7	235.9	161.5	98.8	72.4	68.9
55°	1323.0	1254.1	1075.9	869.9	631.9	483.0	357.0	242.9	140.6	74.5	68.2
57.5°	1668.8	1585.3	1435.7	1153.9	849.0	615.9	477.4	355.6	204.6	83.5	70.3
60°	1916.6	1815.0	1629.9	1371.7	1030.0	724.5	539.3	387.6	227.6	85.6	72.4
62.5°	2062.7	1935.4	1702.9	1394.7	1073.1	769.7	564.4	366.1	195.6	83.5	75.2
65°	*2089.2*	*1944.4*	*1702.9*	*1355.0*	*1028.6*	*730.0*	*545.6*	*338.2*	*154.5*	*80.0*	*77.2*
67.5°	1937.5	1802.5	1598.6	1244.3	912.4	627.0	469.8	278.4	117.6	77.2	76.6
70°	1590.2	1488.6	1322.3	1016.8	740.5	510.1	373.7	214.3	95.3	73.8	72.4
72.5°	1240.8	1146.9	1022.3	797.5	572.8	404.3	285.3	167.7	84.9	71.0	70.3
75°	976.4	906.1	803.1	629.8	430.8	306.2	216.4	126.7	76.6	69.6	68.2
77.5°	798.9	753.0	646.5	480.9	321.5	227.6	161.5	100.9	73.1	68.2	67.5
80°	621.5	583.2	516.4	359.8	230.4	171.2	127.4	89.1	71.0	67.5	66.8
82.5°	443.3	430.1	373.7	279.8	192.1	146.8	114.8	85.6	70.3	66.8	66.1
85°	370.2	351.4	309.7	242.9	176.8	139.9	110.0	84.2	70.3	66.8	66.1
87.5°	357.7	341.0	302.7	231.7	166.3	131.5	105.1	81.4	68.9	65.4	65.4
90°	316.0	299.3	270.0	208.8	153.1	122.5	98.1	77.2	66.1	62.6	62.6
92.5°	279.8	270.0	242.2	191.4	146.8	117.6	94.6	75.2	64.7	61.9	61.2
95°	236.6	228.3	206.7	172.6	137.8	112.0	91.9	73.1	63.3	60.5	60.5
97.5°	196.3	189.3	172.6	146.1	119.0	99.5	82.8	68.9	61.2	59.2	59.2
100°	173.3	167.7	153.1	131.5	110.0	93.3	80.0	68.2	60.5	57.8	57.8
102.5°	164.2	158.7	144.1	124.6	104.4	89.1	77.9	66.8	59.9	57.1	56.4
105°	157.3	151.7	138.5	118.3	98.8	84.9	73.8	65.4	58.5	56.4	55.7
107.5°	150.3	144.1	131.5	111.3	94.0	80.7	71.0	63.3	57.8	55.7	55.7
110°	142.7	137.1	125.3	105.8	90.5	77.9	69.6	62.6	57.8	55.7	55.7

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

Scaled Data Report

REPORT NUMBER: P1045735
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	134.3	128.7	117.6	100.2	87.0	75.9	68.2	61.9	57.8	55.7	55.7
115°	124.6	119.7	109.3	94.6	82.8	73.1	66.1	60.5	56.4	55.0	55.0
117.5°	121.8	116.2	105.8	92.6	81.4	71.0	64.7	59.2	55.7	54.3	54.3
120°	128.1	120.4	109.3	96.7	81.4	69.6	63.3	58.5	55.0	53.6	53.6
122.5°	136.4	130.1	117.6	94.6	78.6	68.2	61.9	57.8	54.3	53.6	53.6
125°	128.7	124.6	112.7	87.7	75.9	66.8	61.2	57.8	55.0	53.6	53.6
127.5°	112.7	108.6	99.5	83.5	73.1	65.4	60.5	57.8	55.7	53.6	53.6
130°	106.5	100.9	92.6	80.0	70.3	63.3	59.9	57.8	55.7	52.9	52.2
132.5°	109.3	104.4	91.2	75.2	66.1	60.5	57.8	56.4	52.2	49.4	48.7
135°	103.0	98.1	84.9	71.7	64.0	59.9	57.1	52.9	48.7	45.2	45.2
137.5°	91.9	86.3	78.6	68.9	63.3	61.2	57.8	52.2	46.6	43.8	43.8
140°	91.2	84.9	77.9	68.2	61.9	56.4	52.2	46.6	42.5	41.1	40.4
142.5°	92.6	88.4	78.6	67.5	59.2	52.2	47.3	43.1	40.4	38.3	38.3
145°	107.2	100.9	88.4	73.8	64.0	55.7	48.7	43.1	39.0	35.5	34.8
147.5°	110.7	104.4	93.3	80.7	68.2	57.8	48.0	41.1	35.5	32.7	32.0
150°	92.6	88.4	82.1	72.4	61.2	50.8	42.5	36.2	32.7	31.3	30.6
152.5°	70.3	68.9	64.7	57.8	50.1	43.1	37.6	34.1	32.0	31.3	30.6
155°	59.9	59.2	55.0	49.4	43.1	38.3	34.8	32.7	31.3	31.3	30.6
157.5°	55.7	54.3	50.8	45.2	39.7	36.9	33.4	32.0	31.3	31.3	31.3
160°	46.6	45.2	42.5	40.4	36.9	34.8	32.7	32.0	31.3	31.3	30.6
162.5°	41.8	40.4	39.0	36.9	36.2	35.5	34.8	33.4	32.7	32.0	32.0
165°	39.7	39.0	36.9	36.2	36.2	36.9	36.9	35.5	34.1	32.7	32.7
167.5°	39.0	38.3	36.9	36.2	37.6	38.3	39.0	37.6	36.2	34.1	33.4
170°	39.0	39.0	38.3	37.6	38.3	39.0	39.7	39.7	39.0	37.6	37.6
172.5°	39.0	39.7	39.0	39.0	39.0	39.0	39.0	40.4	40.4	39.7	39.7
175°	41.8	41.8	39.7	39.0	39.7	40.4	41.1	40.4	40.4	41.1	41.1
177.5°	38.3	39.7	42.5	43.1	44.5	44.5	43.1	42.5	40.4	39.7	39.7
180°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

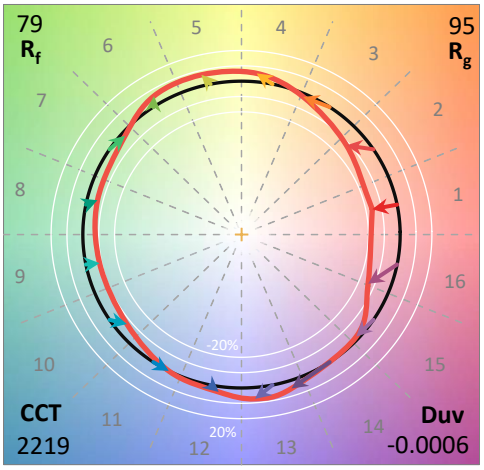
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

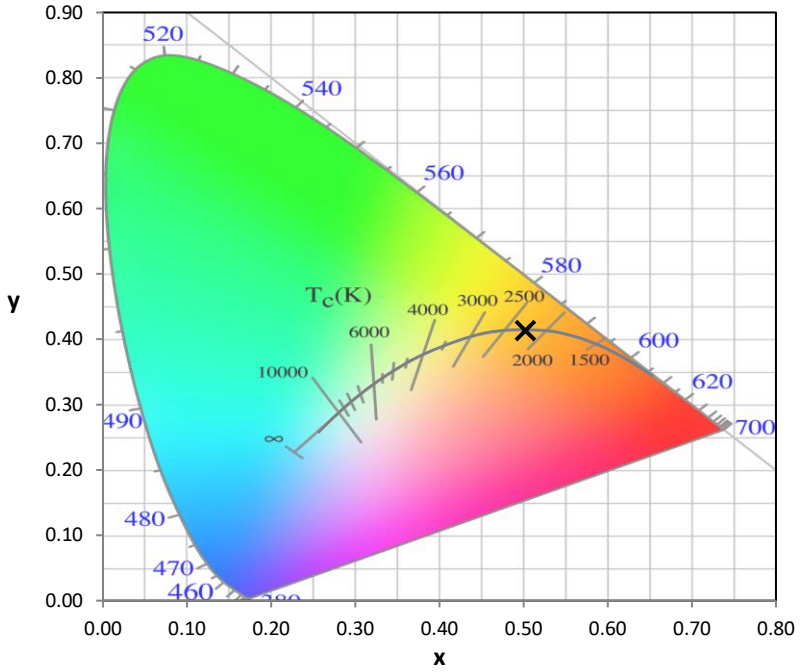
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

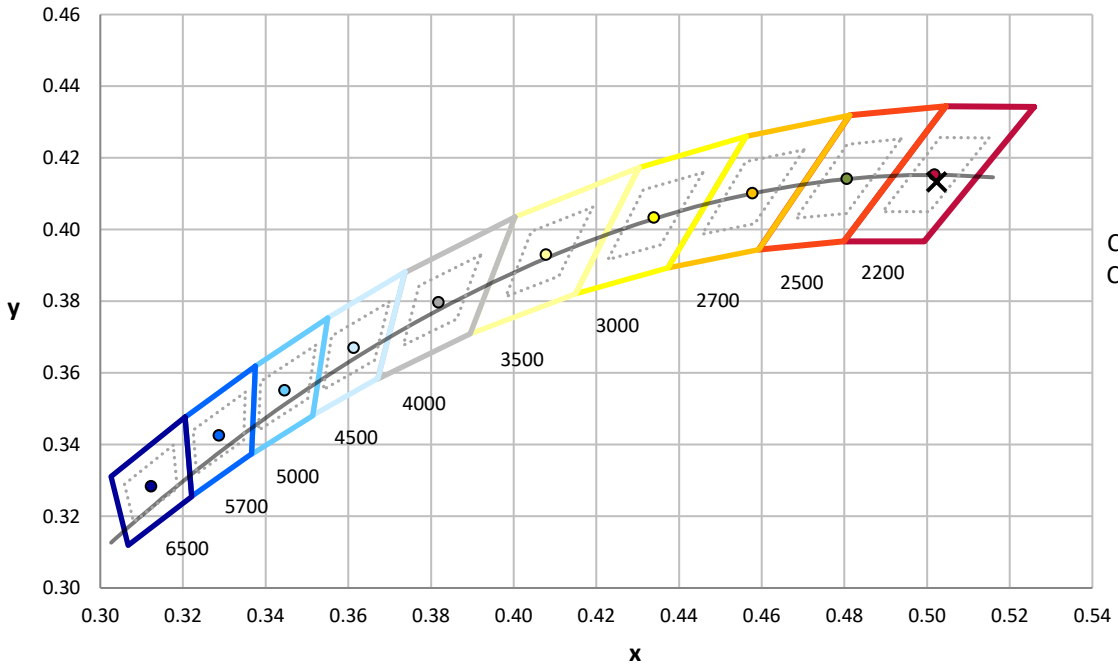
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

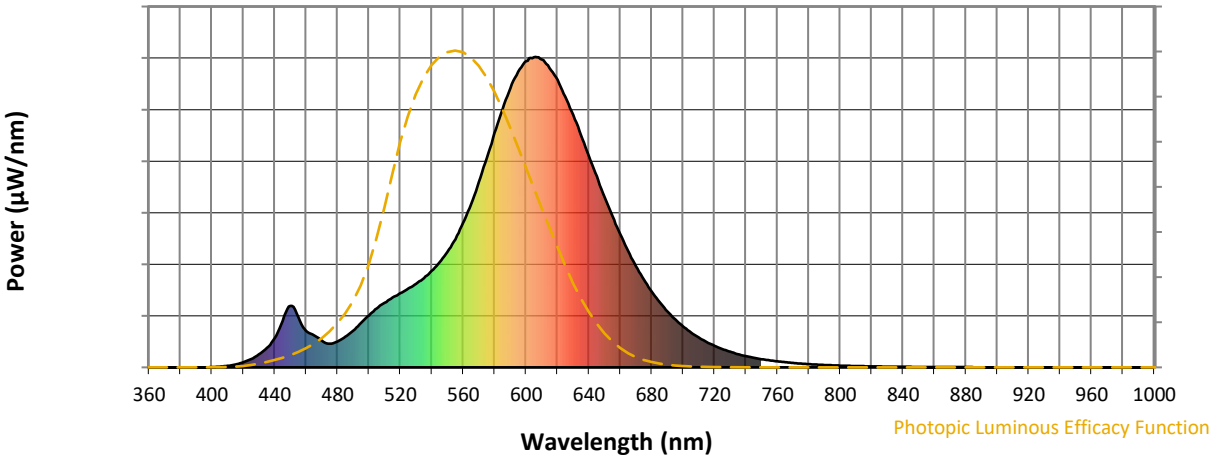


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

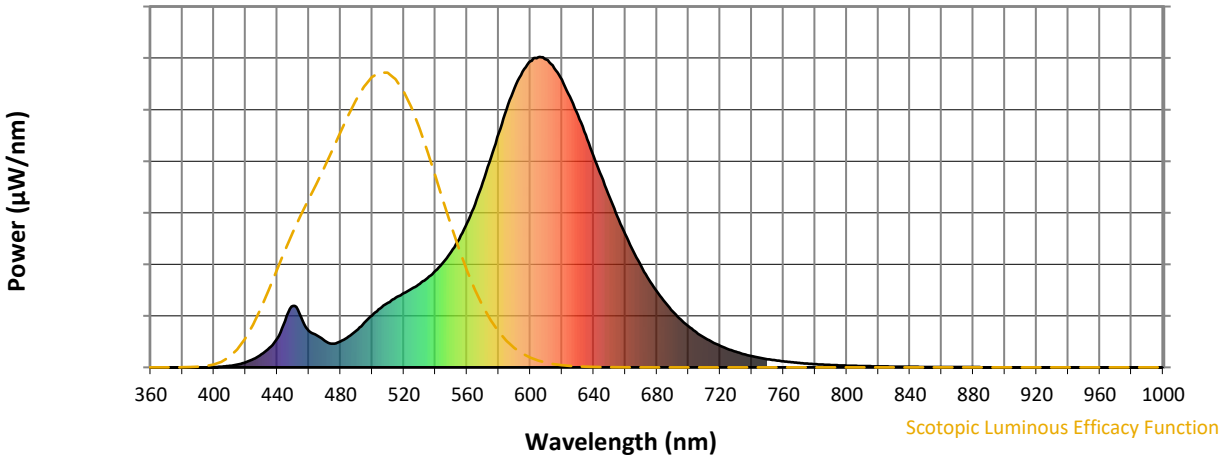


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

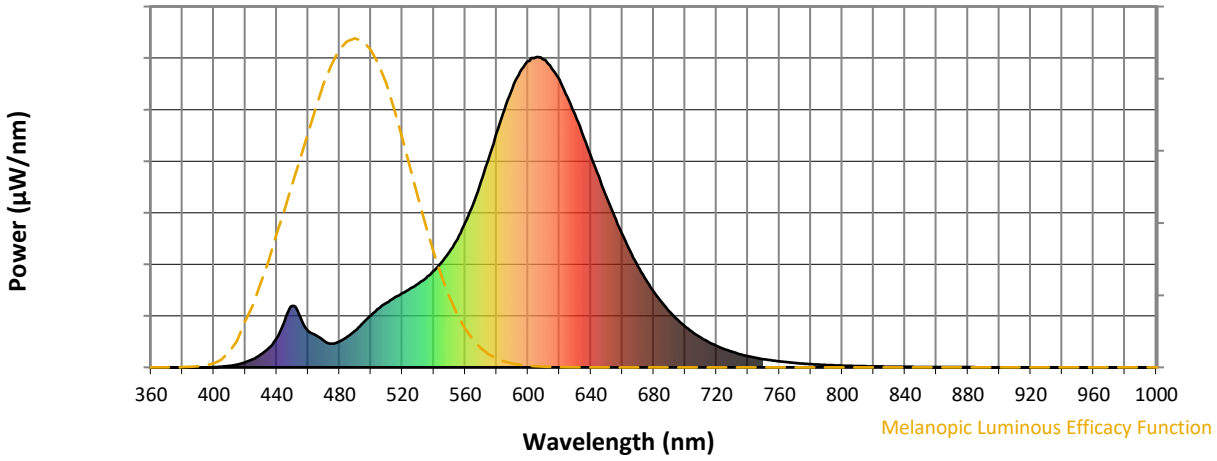


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

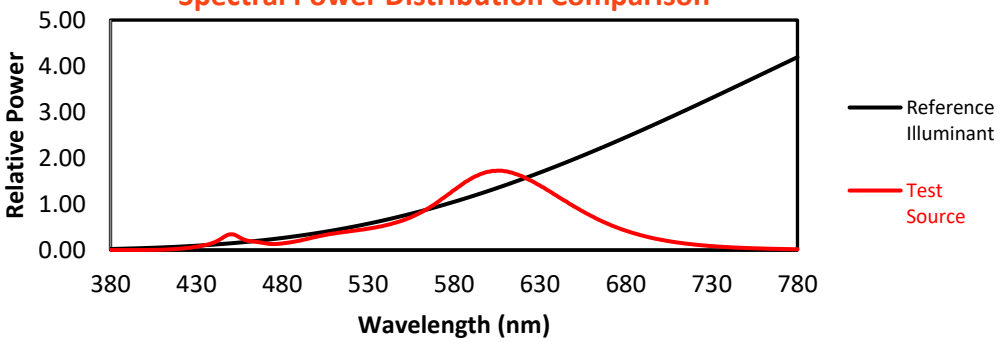
REPORT NUMBER: SP1-2501-332-2

TM-30-18

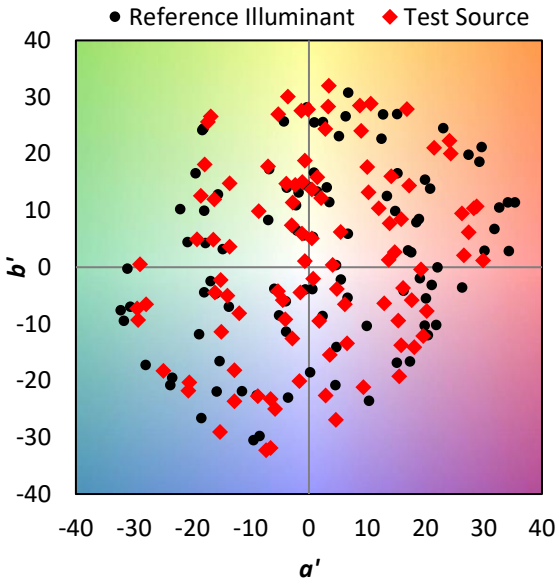
Summary

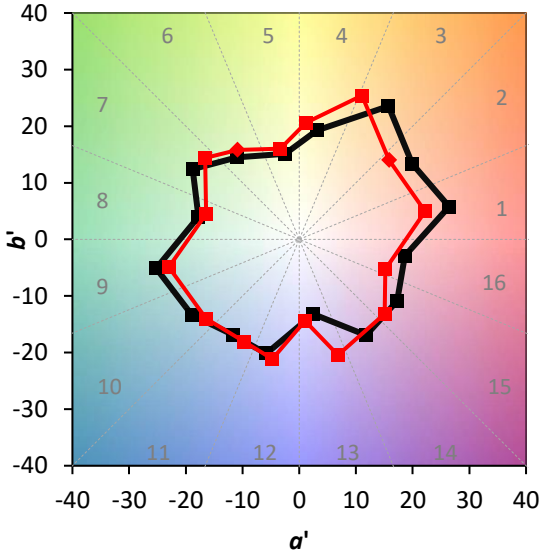
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

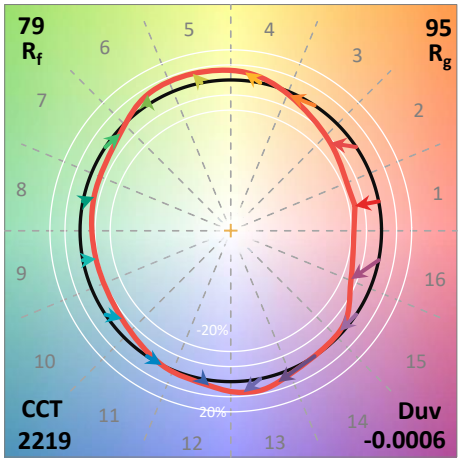
Spectral Power Distribution Comparison

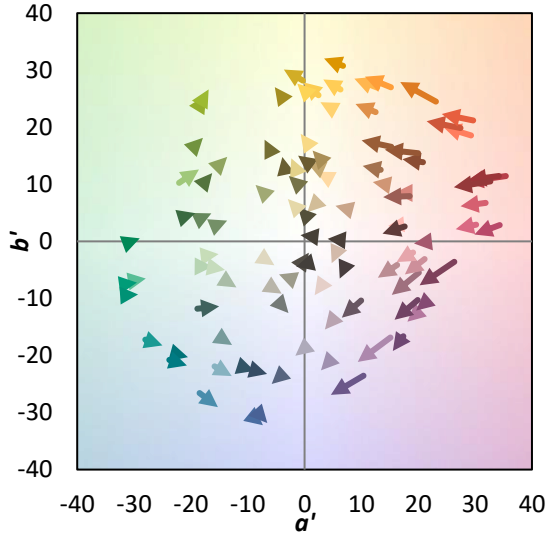


Color Vector Graphics







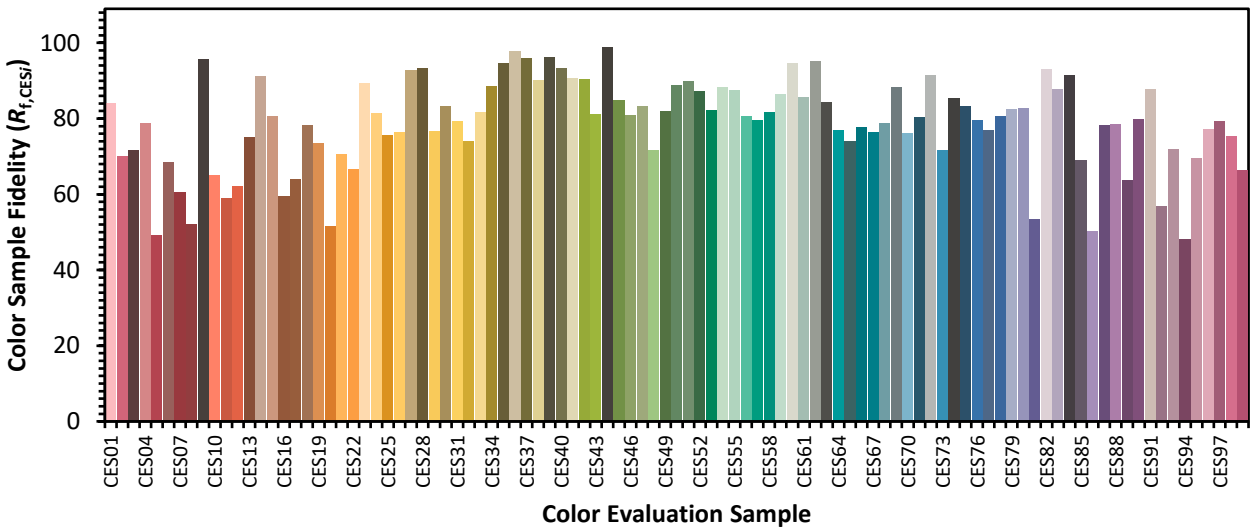


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

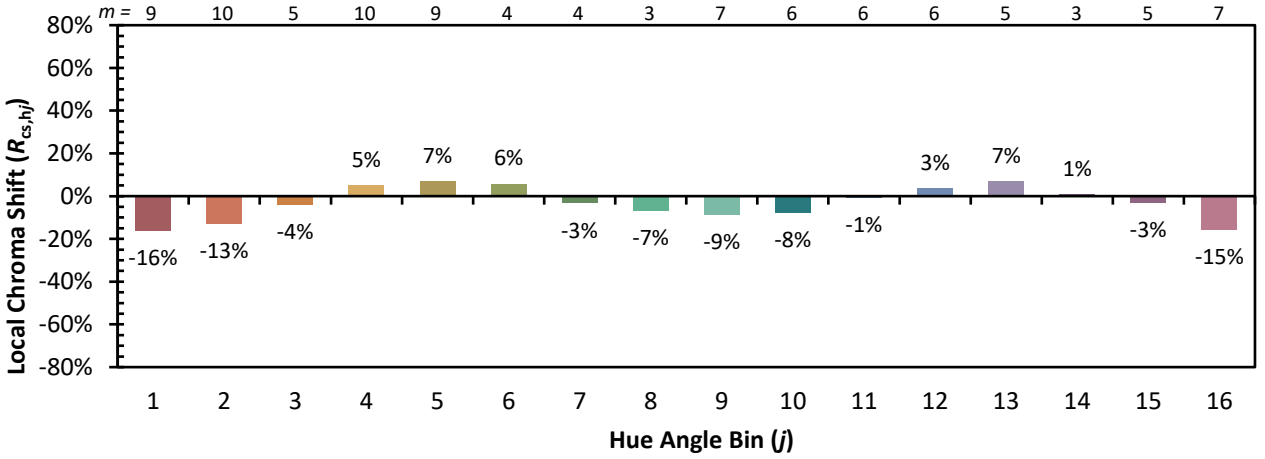
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

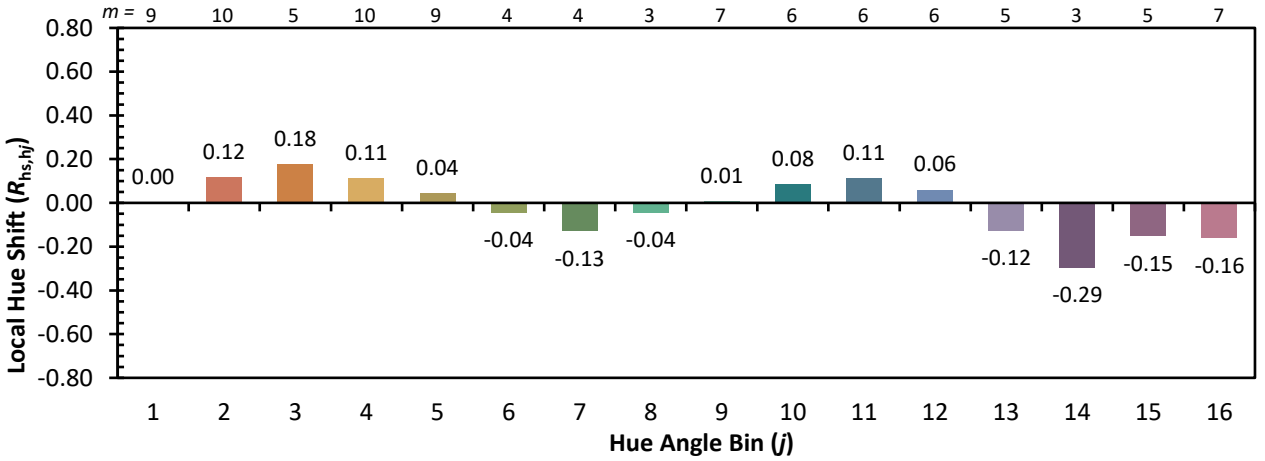


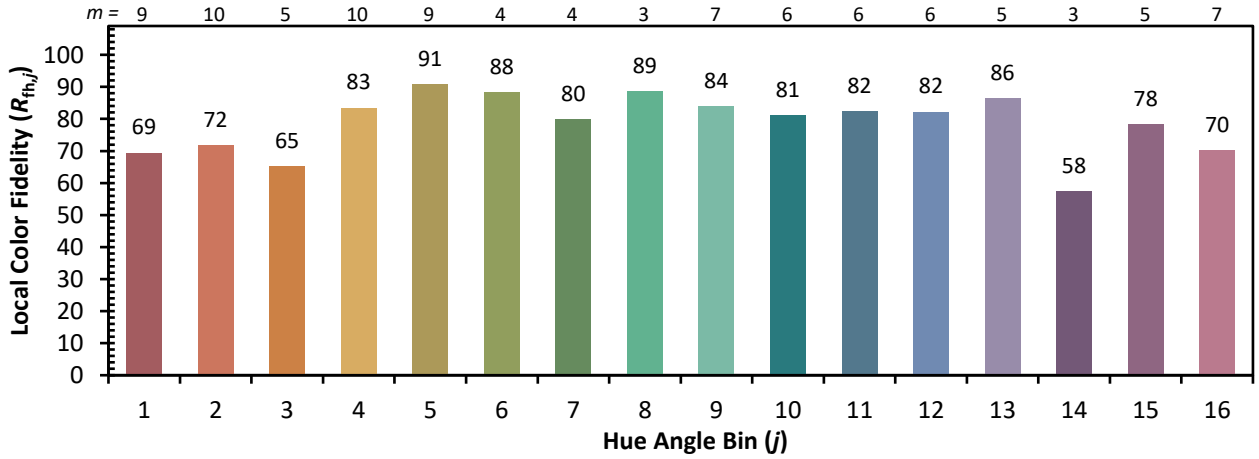
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



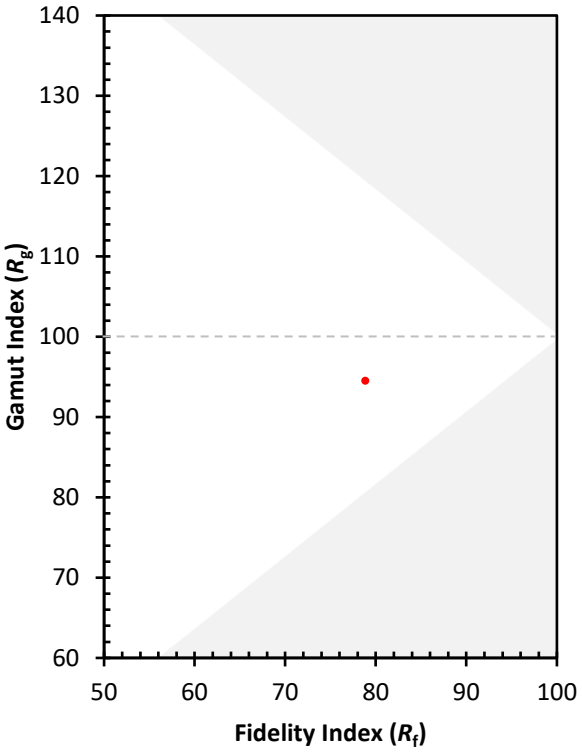


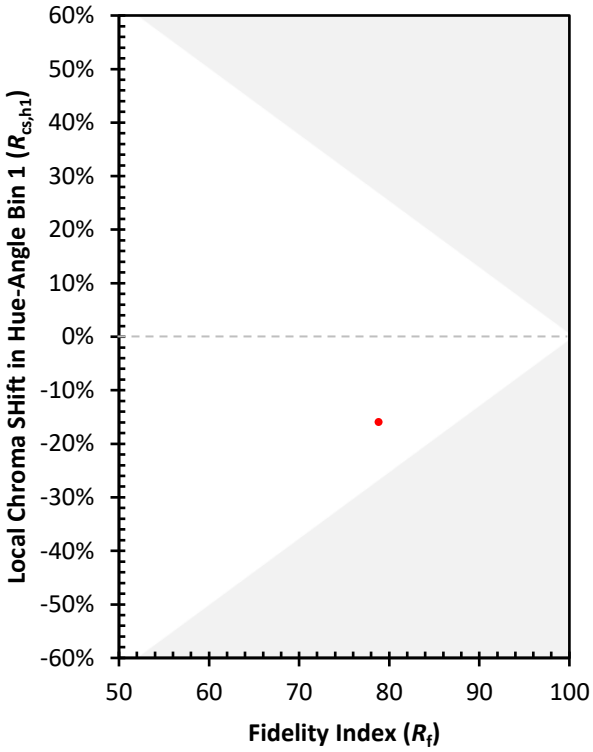


REPORT NUMBER: SP1-2501-332-2

TM-30-18

Measure Comparisons





(END OF REPORT)