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: P1046214

Luminaire Tested: **FFX-CLB-50-740-U-FR-T4-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:	P1046214
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-740-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7680 lumens
Efficiency:	N/A
Efficacy:	151.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

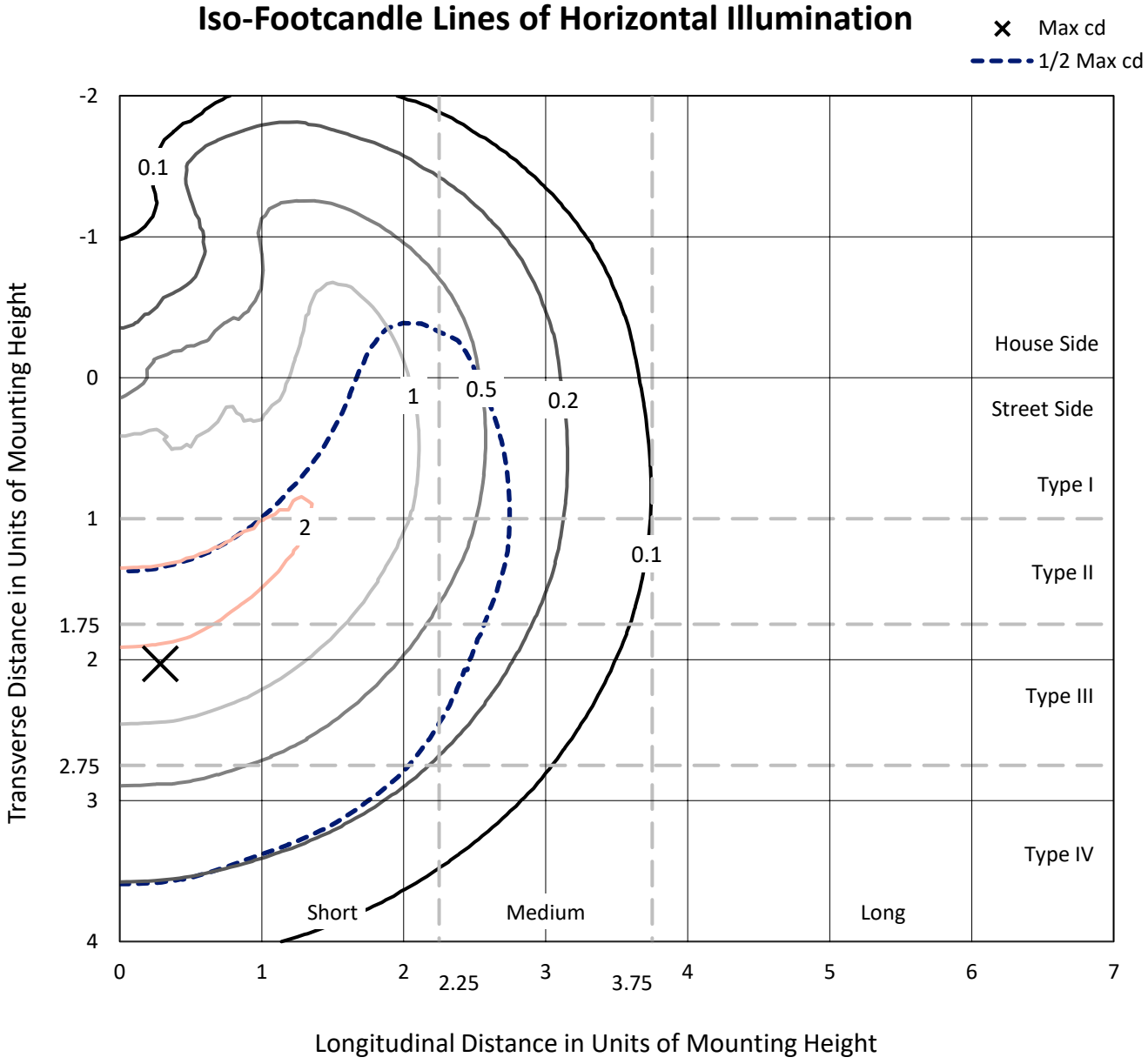


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046214
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



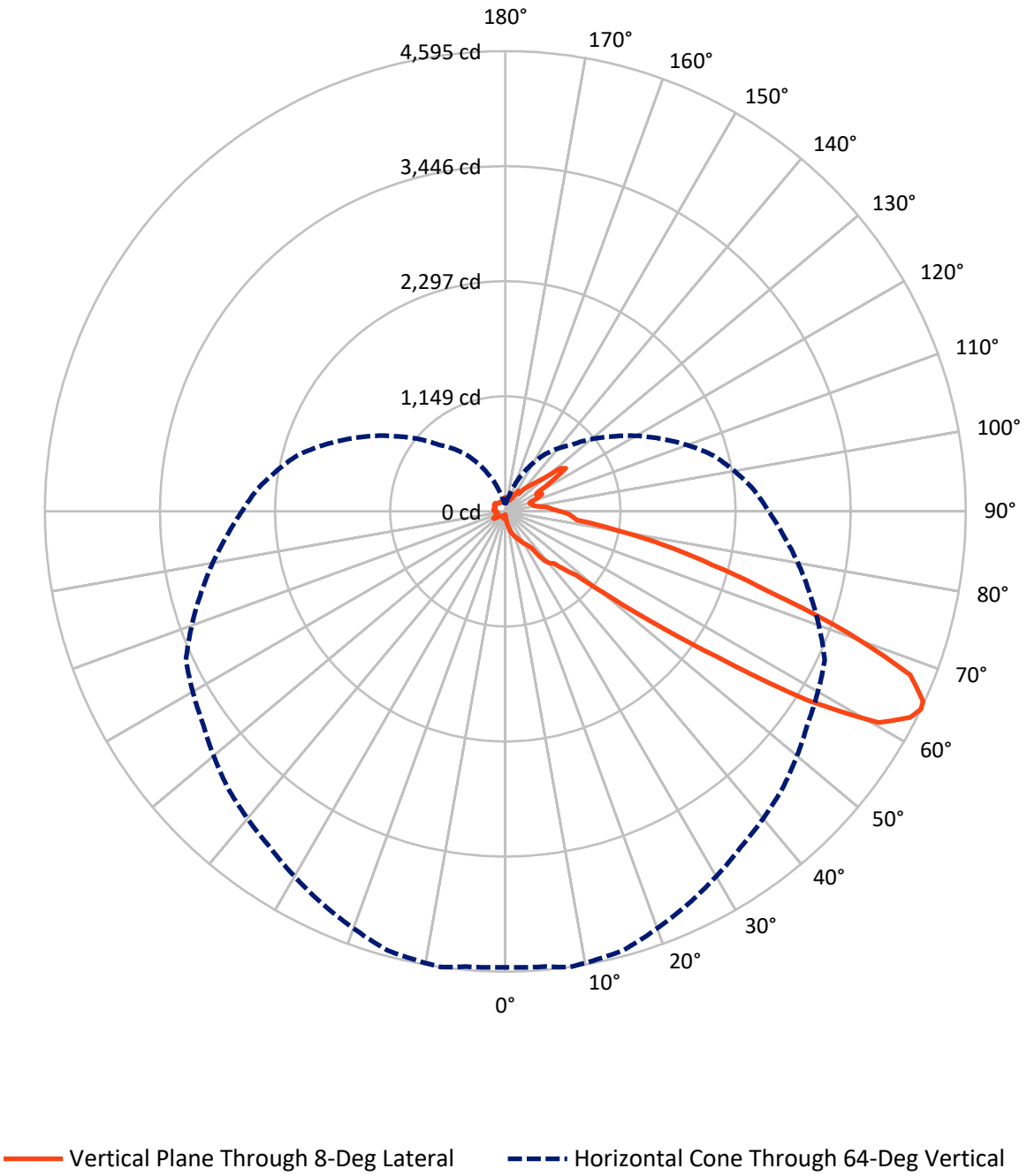
Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046214
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

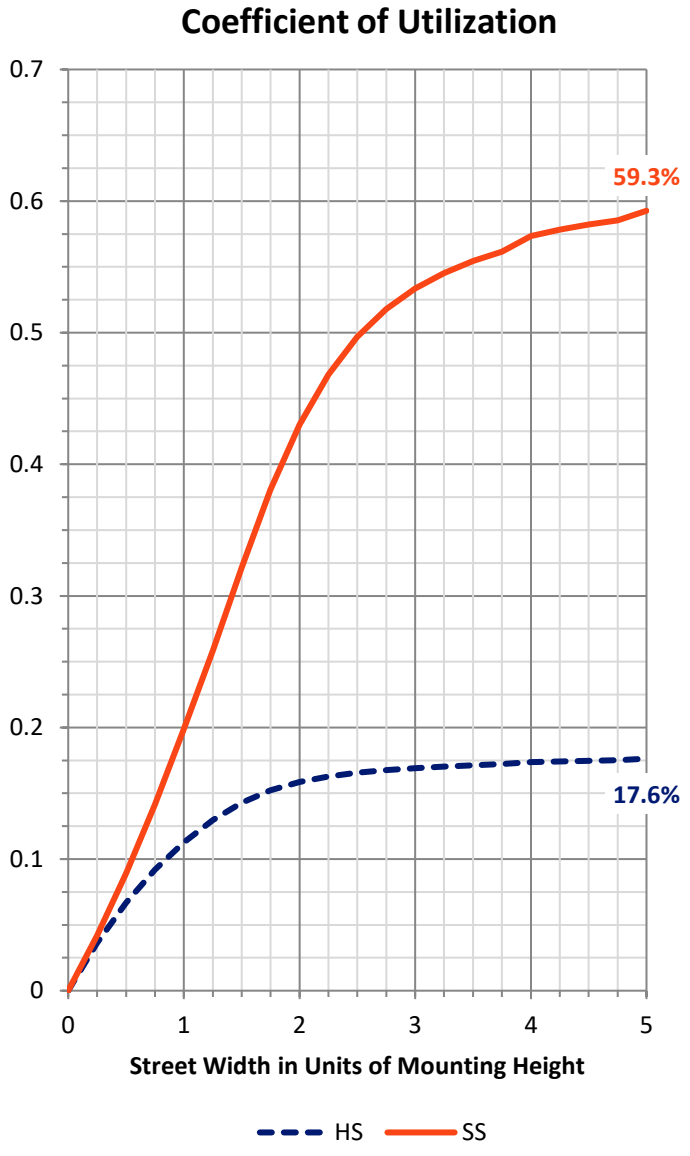
REPORT NUMBER: P1046214
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.5	524.7	1929.2
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	4746.2	1004.6	5750.8
	% Fixture	61.8	13.1	74.9
Total	Lumens	6150.7	1529.3	7680.0
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.1
10°-20°	42.3	0.6
20°-30°	91.8	1.2
30°-40°	183.5	2.4
40°-50°	397.2	5.2
50°-60°	1376.7	17.9
60°-70°	2315.7	30.2
70°-80°	1259.2	16.4
80°-90°	476.7	6.2
90°-100°	300.8	3.9
100°-110°	202.9	2.6
110°-120°	219.5	2.9
120°-130°	361.3	4.7
130°-140°	222.5	2.9
140°-150°	116.4	1.5
150°-160°	60.6	0.8
160°-170°	33.0	0.4
170°-180°	12.4	0.2
0°-90°	6150.7	80.1
0°-180°	7680.0	100.0



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

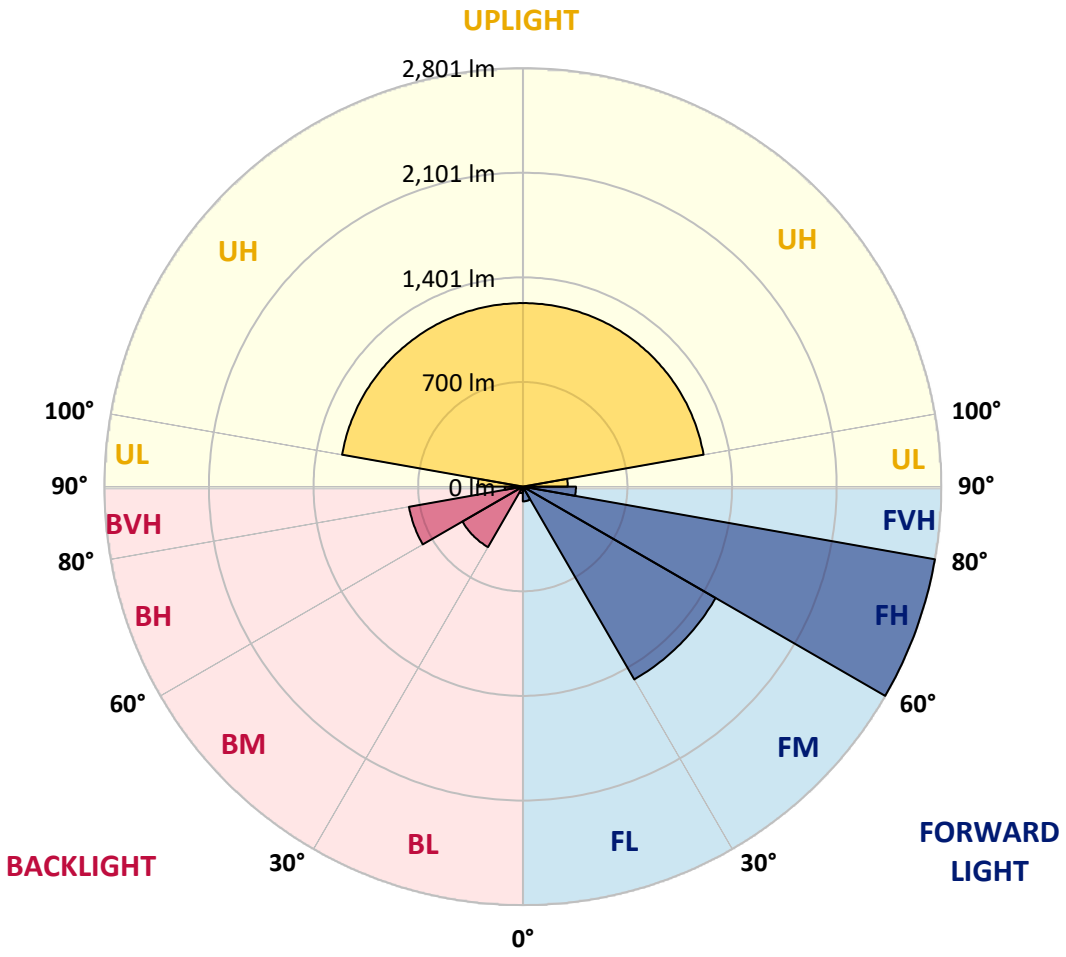
Scaled Data Report

REPORT NUMBER: P1046214
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	98.8	1.3			
FM	(30°-60°)	1490.4	19.4			
FH	(60°-80°)	2801.4	36.5			G2/5000
FVH	(80°-90°)	355.6	4.6			G3/500
BL	(0°-30°)	43.1	0.6	B0/110		
BM	(30°-60°)	466.9	6.1	B1/1000		
BH	(60°-80°)	773.5	10.1	B2/1000		G2/1000
BVH	(80°-90°)	121.1	1.6			G2/225
UL	(90°-100°)	300.8	3.9		U3/500	
UH	(100°-180°)	1228.5	16.0		U5	

BUG Rating: B2-U5-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046214
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	49.4	49.4	*49.4*	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	53.6	53.6	*53.6*	55.2	56.3	56.8	55.2	54.2	53.6	53.1	51.5
5°	77.0	77.5	*77.5*	79.1	78.0	79.1	77.0	75.4	72.7	69.6	66.9
7.5°	108.8	108.8	*108.3*	108.8	108.3	106.2	106.2	107.8	103.5	97.2	91.3
10°	147.6	148.7	*148.1*	146.0	142.8	140.2	140.2	142.3	135.9	124.8	116.3
12.5°	186.9	189.0	*186.9*	187.4	182.1	180.0	175.7	174.7	166.2	155.6	140.7
15°	216.1	217.7	*218.2*	219.8	219.3	212.4	204.9	197.0	190.1	180.5	165.1
17.5°	239.4	240.0	*241.0*	240.5	237.3	230.4	221.9	213.4	202.3	192.2	177.9
20°	262.3	264.4	*263.9*	263.3	261.7	256.4	246.3	234.1	224.6	209.7	194.8
22.5°	285.6	284.0	*285.1*	284.6	284.6	279.3	268.6	254.3	241.6	226.7	213.4
25°	312.7	312.2	*312.7*	311.1	309.0	306.3	293.1	276.6	262.3	246.9	228.3
27.5°	341.4	341.9	*342.4*	339.8	337.1	332.9	313.8	297.3	281.9	262.8	236.8
30°	373.2	371.6	*372.2*	368.5	366.9	353.6	335.0	315.4	298.4	272.9	247.4
32.5°	402.4	399.8	*399.3*	396.1	393.4	374.3	355.2	336.1	315.9	289.9	267.6
35°	443.3	448.6	*446.5*	446.5	453.4	424.2	401.9	383.3	361.6	334.5	311.1
37.5°	610.0	609.0	*602.6*	594.1	570.2	549.5	539.4	510.2	475.2	445.4	408.3
40°	690.7	687.5	*680.6*	663.7	646.7	622.2	606.8	588.8	570.7	518.2	458.7
42.5°	709.8	707.2	*708.8*	729.0	751.3	733.2	673.2	607.9	576.1	540.5	510.7
45°	814.4	823.5	*826.1*	825.6	809.7	790.5	764.5	725.2	670.0	619.6	557.5
47.5°	947.2	946.1	*952.5*	944.0	957.3	923.8	890.4	849.5	792.1	723.6	649.3
50°	1294.4	1283.2	*1284.8*	1288.0	1267.8	1243.4	1213.2	1190.3	1078.3	981.1	868.1
52.5°	1846.0	1847.6	*1835.9*	1835.4	1775.4	1728.2	1675.1	1677.2	1512.6	1382.0	1218.5
55°	2594.6	2595.7	*2553.7*	2588.3	2520.8	2514.5	2397.1	2245.8	2024.4	1846.6	1682.0
57.5°	3526.9	3558.8	*3555.1*	3493.5	3390.5	3334.7	3145.2	2986.4	2673.2	2393.9	2170.4
60°	4321.2	4306.3	*4281.9*	4235.2	3926.7	3797.2	3657.5	3522.2	3262.5	2876.0	2541.5
62.5°	4547.9	4536.7	*4532.5*	4509.1	4265.4	4052.0	3876.3	3654.9	3481.3	3102.2	2761.3
64°	*4551.6*	*4561.7*	*4594.6*	*4538.9*	*4322.3*	*4094.5*	*3912.4*	*3686.2*	*3517.4*	*3143.6*	*2787.9*
65°	4543.1	4541.0	*4582.4*	4511.8	4319.6	4092.4	3890.1	3673.5	3506.2	3132.5	2781.0
67.5°	4315.4	4306.3	*4359.4*	4268.6	4100.9	3895.9	3697.4	3464.8	3317.7	2958.8	2618.5
70°	3541.3	3540.7	*3623.6*	3547.6	3497.7	3280.6	3077.8	2864.3	2707.2	2412.5	2127.9
72.5°	2713.6	2708.8	*2764.0*	2707.2	2681.7	2579.2	2389.7	2201.2	2051.5	1830.6	1600.2
75°	2162.5	2164.6	*2135.4*	2079.6	2058.9	2013.3	1928.8	1816.3	1691.0	1490.3	1277.9
77.5°	1619.3	1608.7	*1621.4*	1543.4	1537.6	1523.8	1523.2	1451.0	1344.8	1216.9	1048.6
80°	1079.4	1085.7	*1108.6*	1087.9	1093.7	1088.9	1118.7	1042.2	961.5	886.1	796.4
82.5°	698.2	715.2	*721.5*	750.2	775.1	786.3	745.4	668.4	618.0	590.4	550.6
85°	670.0	676.9	*673.2*	656.2	647.7	633.9	633.4	609.0	583.0	529.9	465.1
87.5°	618.0	626.0	*622.8*	607.9	588.8	587.2	583.5	566.5	554.3	512.3	455.0
90°	527.2	527.7	*530.4*	527.7	524.0	521.4	500.1	490.0	482.6	446.5	407.7
92.5°	457.1	463.5	*461.9*	457.1	444.9	452.3	429.5	410.4	406.2	381.2	351.5
95°	420.0	424.2	*425.3*	416.8	405.1	402.4	384.9	370.1	363.2	346.7	310.6
97.5°	348.3	345.6	*343.5*	341.4	333.4	324.9	313.8	295.2	289.4	271.3	251.1
100°	297.3	298.4	*297.3*	295.7	288.8	284.6	276.6	261.7	255.4	243.7	229.9
102.5°	283.5	284.0	*284.0*	284.6	272.9	263.3	254.8	244.2	238.4	228.3	215.0
105°	270.8	270.8	*271.8*	272.4	260.7	246.9	234.7	228.8	226.2	214.5	200.7
107.5°	254.8	254.3	*255.9*	249.0	237.3	231.5	218.7	211.8	210.8	201.8	187.4

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

Scaled Data Report

REPORT NUMBER: P1046214
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	278.2	272.4	*271.3*	254.3	238.4	225.1	218.7	212.4	208.7	196.4	187.4
112.5°	364.2	356.3	*354.1*	338.2	282.5	277.7	271.8	269.7	267.6	251.1	235.7
115°	401.4	401.4	*407.7*	401.4	362.6	318.6	312.2	302.6	306.3	286.2	263.9
117.5°	321.2	343.5	*349.9*	330.8	332.4	304.2	260.7	245.8	238.4	232.5	242.6
120°	360.5	375.4	*369.0*	334.0	318.0	301.6	303.7	298.4	271.8	235.2	238.9
122.5°	537.3	551.1	*555.9*	558.5	566.0	554.8	529.9	494.8	468.3	424.2	399.3
125°	752.3	742.2	*741.2*	745.9	751.8	737.5	726.8	719.9	703.5	645.6	564.4
127.5°	690.7	686.0	*693.9*	692.9	707.2	682.8	678.0	681.7	675.3	642.9	595.7
130°	495.4	503.8	*509.7*	528.8	556.9	535.2	515.0	484.7	482.6	498.5	473.6
132.5°	415.7	419.4	*430.0*	455.0	476.2	467.2	437.5	408.3	406.2	419.4	417.3
135°	367.4	370.1	*371.6*	372.7	369.0	377.5	371.1	360.5	353.6	354.1	347.8
137.5°	328.1	329.2	*328.1*	319.6	309.5	307.9	323.9	324.4	318.0	306.9	298.4
140°	284.6	284.6	*280.3*	274.5	272.9	273.4	282.5	284.0	276.6	267.6	254.8
142.5°	222.5	219.8	*220.3*	229.9	246.9	243.2	231.5	216.6	214.5	225.1	220.9
145°	240.5	240.0	*238.4*	238.9	234.7	227.8	223.5	218.7	210.2	203.3	196.4
147.5°	242.6	240.5	*241.6*	239.4	237.3	234.1	232.5	234.7	232.5	227.8	218.7
150°	191.7	192.7	*193.8*	191.1	193.3	194.3	193.3	191.7	194.3	188.5	184.8
152.5°	149.7	149.2	*148.7*	149.7	149.2	151.3	151.8	151.3	150.3	149.7	143.9
155°	140.7	142.3	*141.2*	138.0	140.2	141.8	143.9	145.5	143.9	141.2	135.9
157.5°	129.5	129.5	*129.5*	129.5	130.1	130.6	133.3	134.3	134.3	132.7	129.0
160°	120.5	121.1	*121.1*	121.1	122.1	123.2	124.8	125.8	126.9	125.8	123.7
162.5°	115.2	114.7	*114.7*	115.2	115.2	116.8	118.4	120.5	121.1	120.0	120.0
165°	112.0	112.0	*112.0*	112.6	113.6	114.7	116.8	117.3	117.9	118.9	118.9
167.5°	115.7	115.7	*115.7*	116.3	117.3	118.9	120.0	121.1	123.2	123.7	123.7
170°	121.6	121.6	*121.6*	122.1	122.6	123.2	123.7	124.8	125.3	126.4	125.8
172.5°	127.4	126.9	*127.4*	127.4	127.4	127.4	127.4	128.0	128.5	128.5	128.5
175°	133.8	133.8	*134.3*	133.8	132.7	132.7	132.7	133.3	133.3	133.3	132.7
177.5°	140.2	140.2	*139.6*	140.2	139.6	139.1	138.6	138.0	137.0	137.0	135.9
180°	136.4	136.4	*136.4*	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4

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

Scaled Data Report

REPORT NUMBER: P1046214
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	50.4	48.3	45.7	42.5	39.3	37.2	35.0	32.4	30.8	30.3	30.3
5°	63.7	62.1	59.5	55.2	52.6	47.8	43.5	40.9	38.2	35.6	33.4
7.5°	89.2	88.7	90.3	93.4	89.2	78.0	66.4	60.0	60.5	63.7	65.3
10°	112.0	108.8	109.4	116.8	109.9	88.7	72.7	66.9	70.1	76.5	77.5
12.5°	135.9	131.1	127.4	125.8	110.4	86.5	72.2	65.3	66.9	72.2	72.2
15°	157.7	151.8	143.3	132.2	114.1	92.9	75.4	65.3	65.3	64.8	63.7
17.5°	169.9	163.5	148.1	130.6	111.0	91.8	73.8	63.7	58.4	54.2	53.6
20°	189.0	185.8	166.2	141.2	114.1	89.7	71.1	61.1	55.2	52.0	51.0
22.5°	207.6	198.6	173.1	147.6	116.8	89.2	70.1	60.5	55.2	52.6	51.5
25°	217.7	206.5	181.0	155.0	120.5	89.7	71.1	61.6	55.7	53.1	52.6
27.5°	225.6	214.0	190.1	161.9	125.3	91.8	74.3	63.2	56.8	53.6	53.1
30°	236.3	225.1	200.7	170.4	129.5	96.6	78.0	65.8	58.4	55.2	54.7
32.5°	256.4	242.6	214.0	177.9	134.9	101.4	82.8	70.1	61.1	56.3	56.3
35°	298.4	283.5	245.3	198.0	140.7	105.1	86.0	72.7	63.2	57.9	57.3
37.5°	386.5	367.9	321.2	247.9	155.0	110.4	89.7	74.3	64.2	59.5	58.4
40°	429.0	394.5	341.9	277.1	178.9	118.9	95.6	78.0	65.8	60.0	59.5
42.5°	480.5	451.8	379.6	284.6	198.6	138.6	105.7	83.4	69.0	61.1	60.5
45°	530.9	502.8	438.5	346.2	238.9	169.4	122.1	92.4	73.8	63.7	62.1
47.5°	619.1	572.9	495.9	405.1	294.1	214.5	150.3	105.1	81.8	66.9	64.8
50°	837.3	807.0	689.1	550.0	382.8	279.3	204.4	134.9	90.8	69.0	65.8
52.5°	1129.3	1071.9	938.1	767.7	555.3	414.7	298.9	200.2	111.5	71.1	66.9
55°	1591.7	1502.5	1348.5	1053.4	796.9	628.6	467.7	328.6	169.9	75.9	67.4
57.5°	2086.0	2005.3	1821.6	1455.8	1079.9	800.6	615.9	464.0	238.4	86.5	73.3
60°	2416.8	2276.1	2066.4	1712.8	1305.5	941.3	689.1	486.9	247.4	88.7	76.5
62.5°	2606.3	2460.8	2150.8	1744.6	1345.9	972.7	721.0	446.0	197.5	86.0	79.6
64°	*2628.6*	*2488.4*	*2151.8*	*1714.4*	*1302.9*	*940.3*	*698.7*	*418.4*	*171.5*	*84.9*	*81.2*
65°	2611.1	2481.5	2125.8	1678.3	1245.0	898.3	672.2	390.8	152.4	83.9	81.8
67.5°	2440.7	2327.0	1954.3	1522.2	1107.0	775.7	551.6	300.5	119.5	81.8	80.7
70°	1976.6	1924.6	1606.6	1228.0	875.0	618.5	434.8	229.9	101.4	79.6	78.6
72.5°	1482.9	1417.0	1198.8	937.1	681.7	481.0	330.2	176.8	89.7	77.5	76.5
75°	1188.7	1124.5	950.4	738.0	507.0	359.4	244.2	132.2	84.4	77.0	75.9
77.5°	982.7	931.2	781.5	561.7	360.5	257.5	179.5	107.8	82.8	77.5	76.5
80°	756.0	747.5	610.6	408.8	255.4	192.2	144.9	100.9	83.4	79.6	78.6
82.5°	530.4	509.2	431.1	304.2	220.9	175.7	139.1	102.5	87.6	84.4	83.9
85°	437.0	420.5	369.0	292.5	210.2	169.9	137.5	105.1	91.8	89.2	88.1
87.5°	432.2	414.1	365.3	279.8	199.6	161.9	131.1	102.5	91.3	89.7	90.8
90°	392.4	379.1	334.0	258.0	198.0	164.6	137.0	113.1	101.4	96.1	95.0
92.5°	343.5	335.5	303.7	250.6	205.5	174.1	149.2	125.3	114.7	111.5	109.9
95°	300.0	296.8	270.8	227.8	189.5	164.1	141.2	120.5	111.5	107.2	106.7
97.5°	245.8	242.1	221.9	193.8	165.6	144.4	127.4	111.5	105.1	104.6	104.1
100°	224.6	221.9	207.6	189.5	167.2	151.3	136.4	123.2	117.9	117.9	118.4
102.5°	207.6	206.0	193.3	174.7	157.2	142.3	130.1	117.9	111.5	111.5	107.8
105°	193.8	191.1	179.5	164.6	146.5	132.7	121.1	112.0	105.1	103.0	103.0
107.5°	181.6	178.4	168.8	154.5	141.2	128.0	117.3	108.8	104.1	102.5	102.5

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

Scaled Data Report

REPORT NUMBER: P1046214
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	182.1	179.5	168.3	152.9	140.7	130.6	122.1	114.1	109.9	106.7	106.7
112.5°	224.1	212.9	193.3	170.4	156.6	143.3	130.1	118.9	113.6	112.6	111.5
115°	253.8	242.6	218.2	188.5	163.5	144.9	131.7	123.2	118.4	121.6	123.2
117.5°	254.8	234.7	187.9	173.6	155.6	140.2	131.1	125.8	122.6	125.8	125.8
120°	259.6	218.7	193.8	187.9	166.7	144.9	134.9	133.8	130.6	124.2	124.2
122.5°	386.0	348.8	309.0	258.6	214.5	193.8	175.7	144.4	129.5	122.6	122.1
125°	532.0	493.2	431.1	363.7	300.0	233.6	173.6	148.1	132.7	124.2	122.6
127.5°	565.4	535.2	453.4	372.7	282.5	217.7	174.1	152.4	137.0	128.0	126.4
130°	456.1	432.2	377.0	311.1	248.5	201.2	169.9	148.1	133.3	124.2	122.1
132.5°	405.6	383.3	329.2	269.2	220.3	183.7	155.6	134.3	119.5	113.1	113.1
135°	339.3	323.9	275.5	240.0	204.9	174.1	146.5	126.9	114.7	111.0	111.0
137.5°	290.9	278.7	244.2	216.1	189.0	162.5	138.6	122.6	114.1	110.4	109.9
140°	249.0	241.0	220.9	193.3	167.2	141.2	122.6	113.6	109.9	108.3	107.8
142.5°	216.6	210.8	192.7	164.1	138.6	122.6	115.7	113.1	109.4	105.7	105.1
145°	189.5	184.8	164.1	147.6	135.4	129.0	123.7	115.7	106.7	101.9	101.4
147.5°	212.9	205.5	187.4	168.3	148.7	133.8	122.1	111.5	103.0	99.8	99.8
150°	183.2	177.9	166.7	151.8	135.4	121.6	111.5	104.6	101.4	100.9	100.9
152.5°	142.3	139.6	136.4	129.0	118.4	109.4	103.0	99.8	100.9	103.0	103.5
155°	133.8	132.7	129.5	122.6	115.7	107.2	101.9	100.3	101.9	104.1	104.6
157.5°	127.4	126.9	124.2	117.9	111.5	106.2	102.5	101.4	103.0	104.6	104.6
160°	122.1	121.6	117.9	113.1	108.3	104.6	101.9	101.9	103.5	104.6	104.6
162.5°	118.9	118.4	115.7	112.0	108.8	106.7	106.2	106.2	106.7	107.2	107.2
165°	118.9	118.4	115.7	112.6	110.4	110.4	111.5	112.0	110.4	109.4	109.9
167.5°	123.7	122.6	119.5	116.8	116.3	116.8	118.4	118.4	117.3	115.7	115.2
170°	125.3	124.8	123.7	122.6	122.6	122.6	123.2	123.7	123.7	124.2	124.2
172.5°	128.5	128.5	128.0	128.0	128.5	128.0	128.0	129.0	130.1	130.6	131.1
175°	132.7	132.2	132.7	132.7	133.3	132.7	132.2	133.3	134.9	135.9	135.9
177.5°	135.9	135.9	135.4	134.9	134.9	134.9	134.9	135.4	135.4	135.4	134.9
180°	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

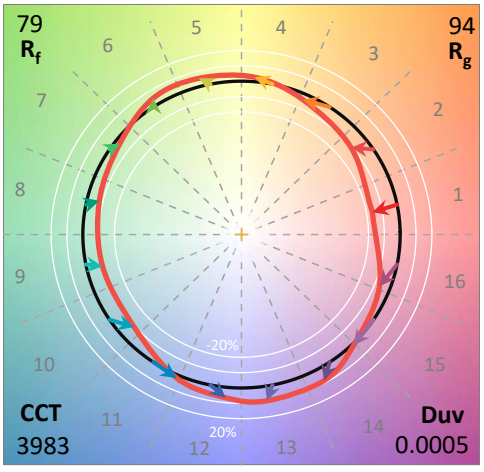
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
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-20-740-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):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

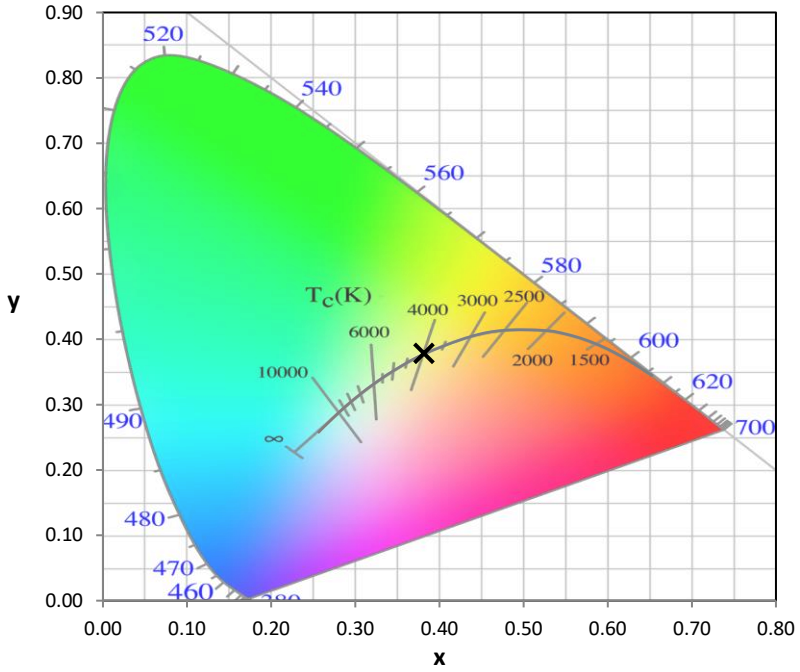
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

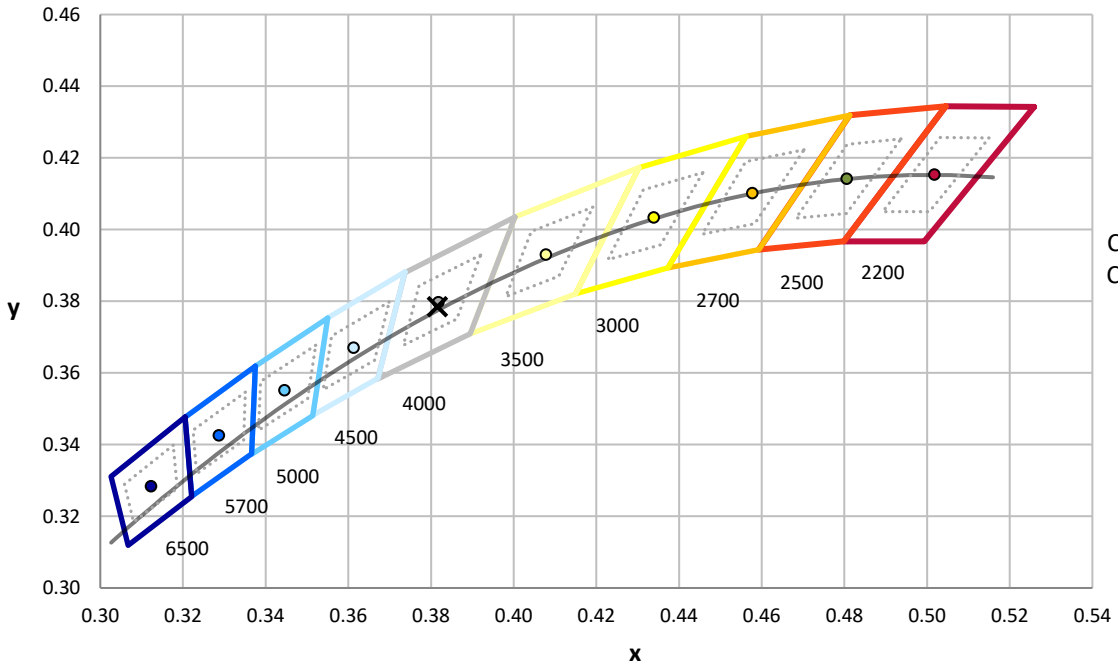
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

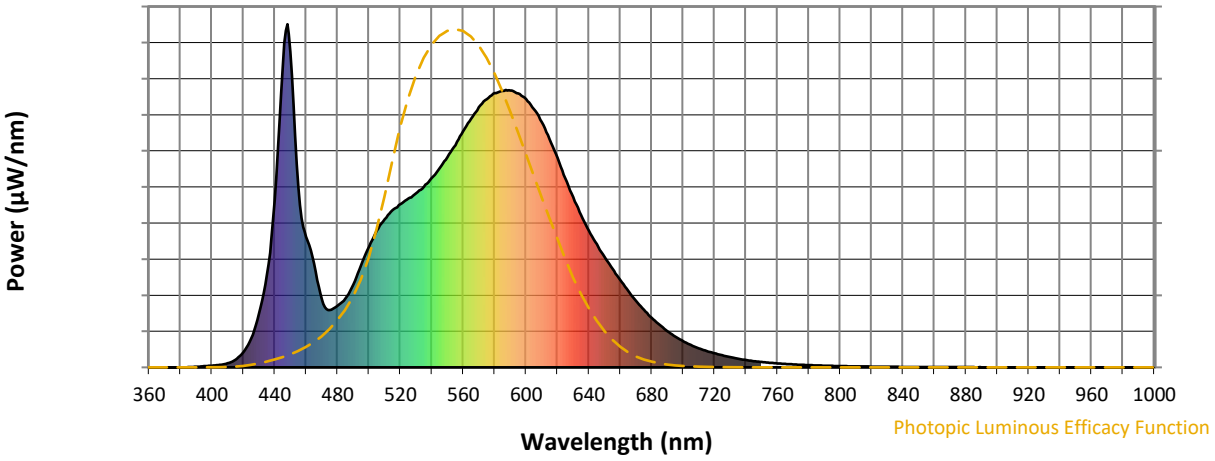


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

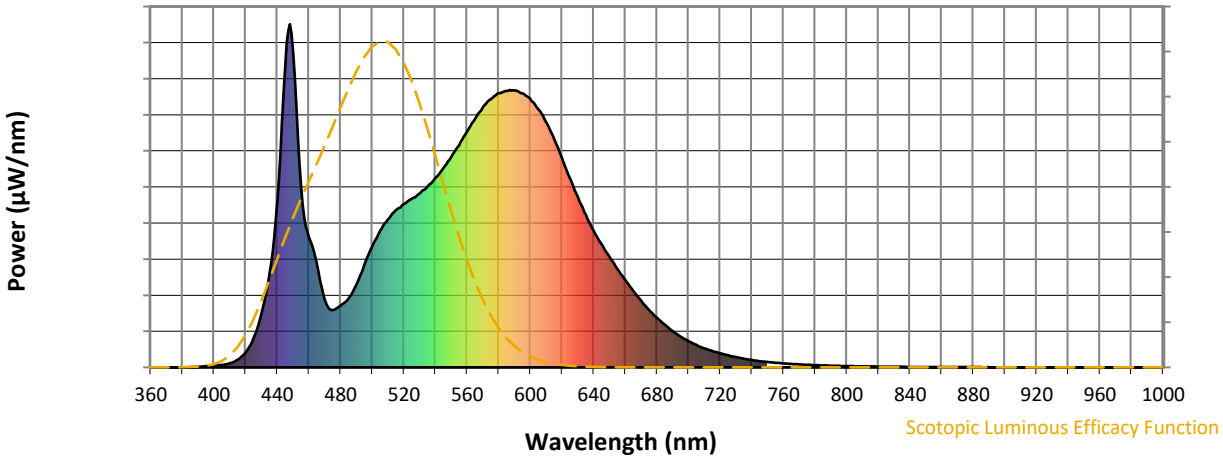


Photopic Lumens: NR

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

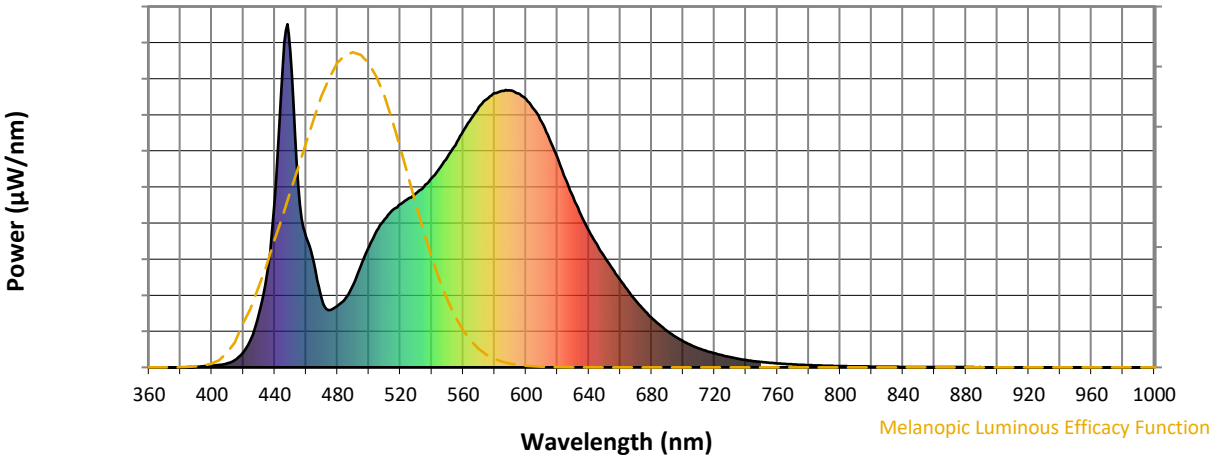


Scotopic Lumens: NR **S/P: 1.61**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

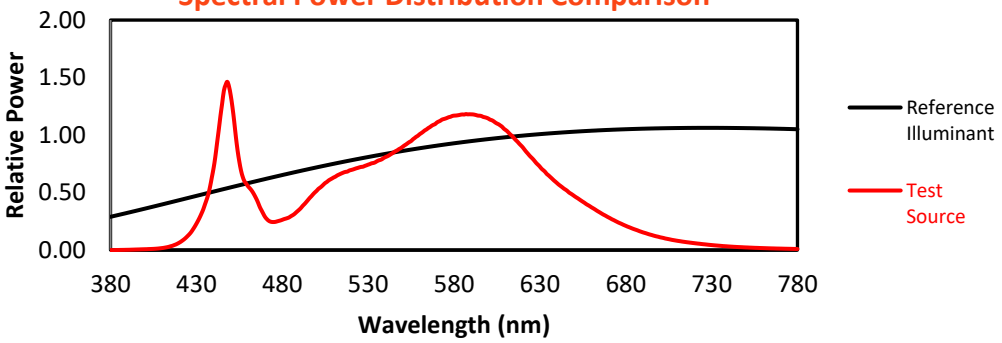
REPORT NUMBER: SP1-2501-332-11

TM-30-18

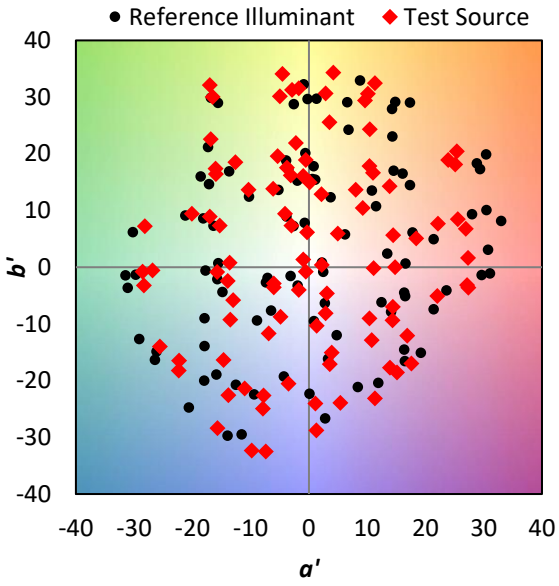
Summary

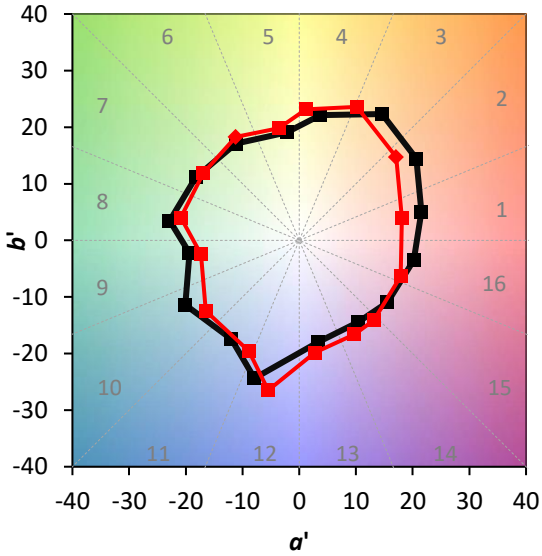
R_f = 79
R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

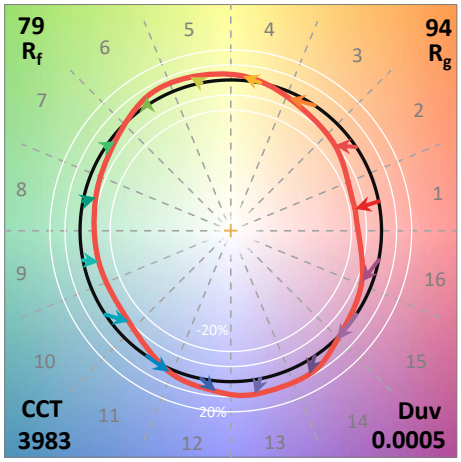
Spectral Power Distribution Comparison

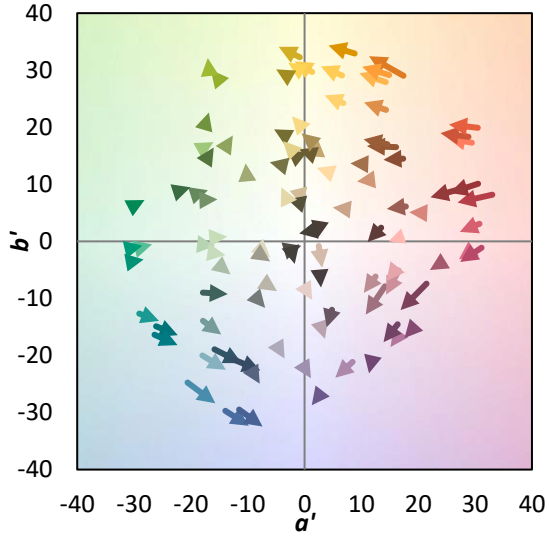


Color Vector Graphics







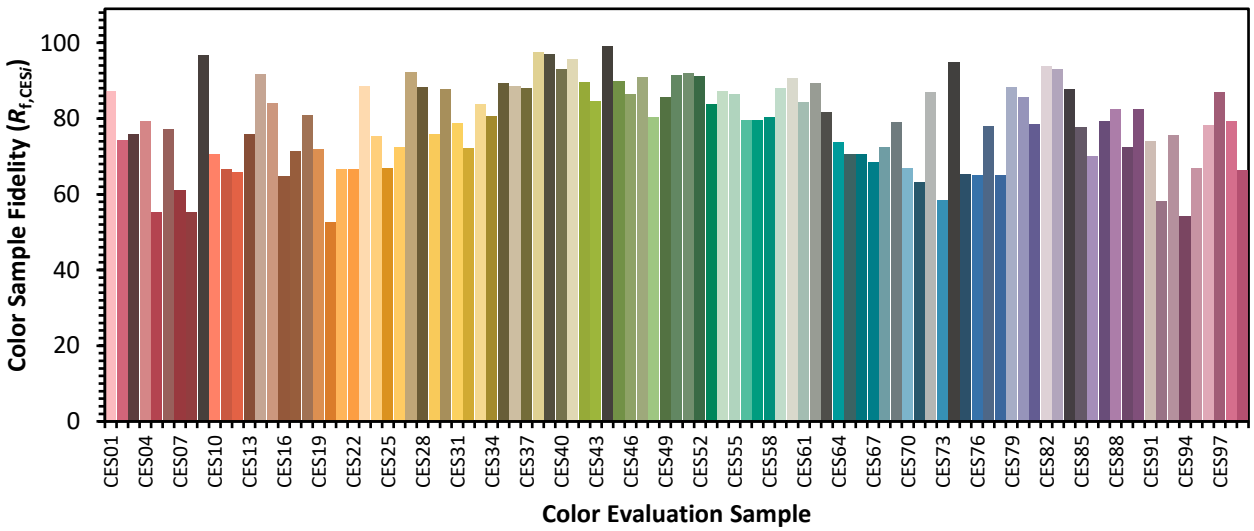


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

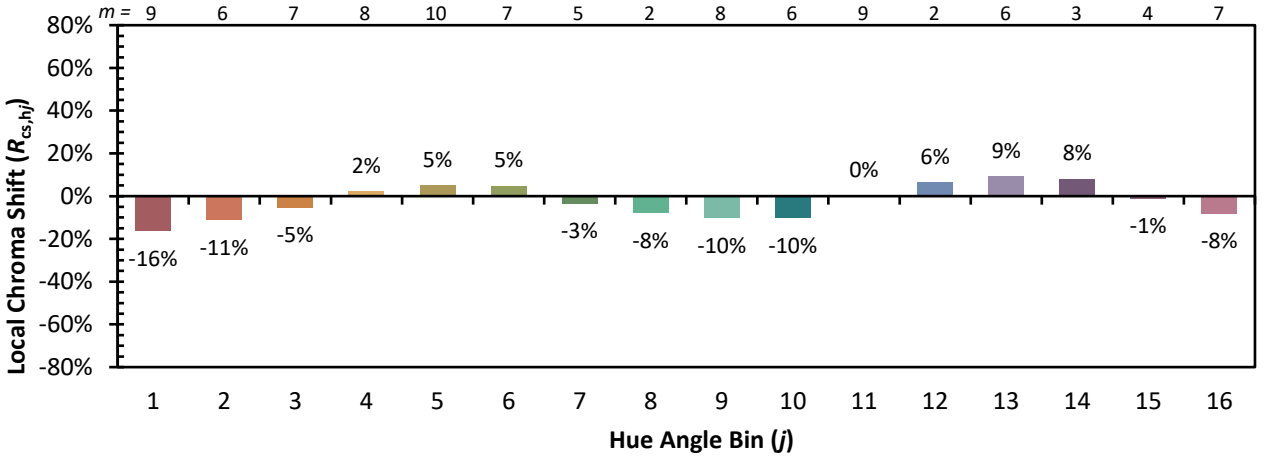
CES01 = 85	CES26 = 72	CES51 = 92	CES76 = 65
CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

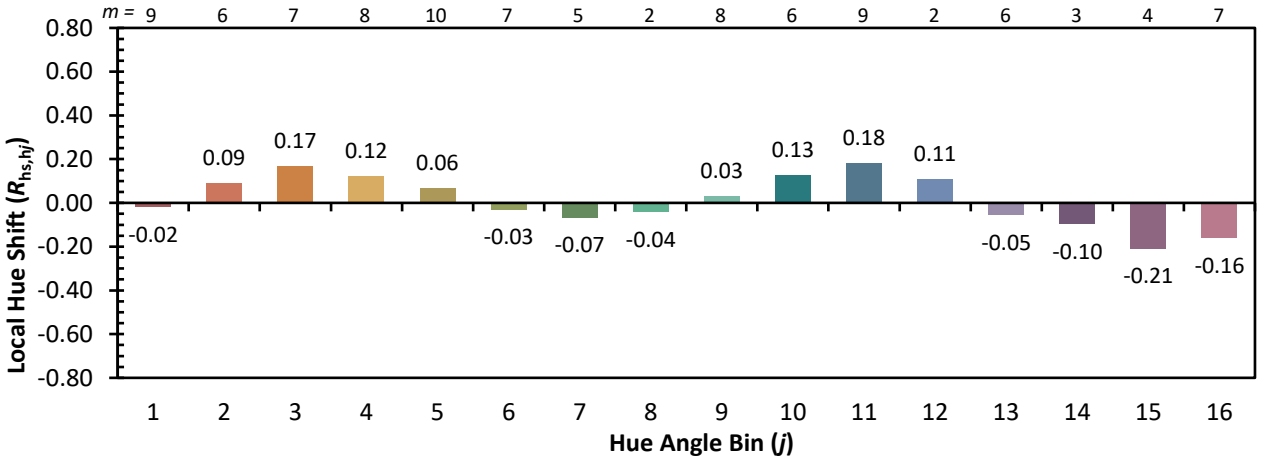


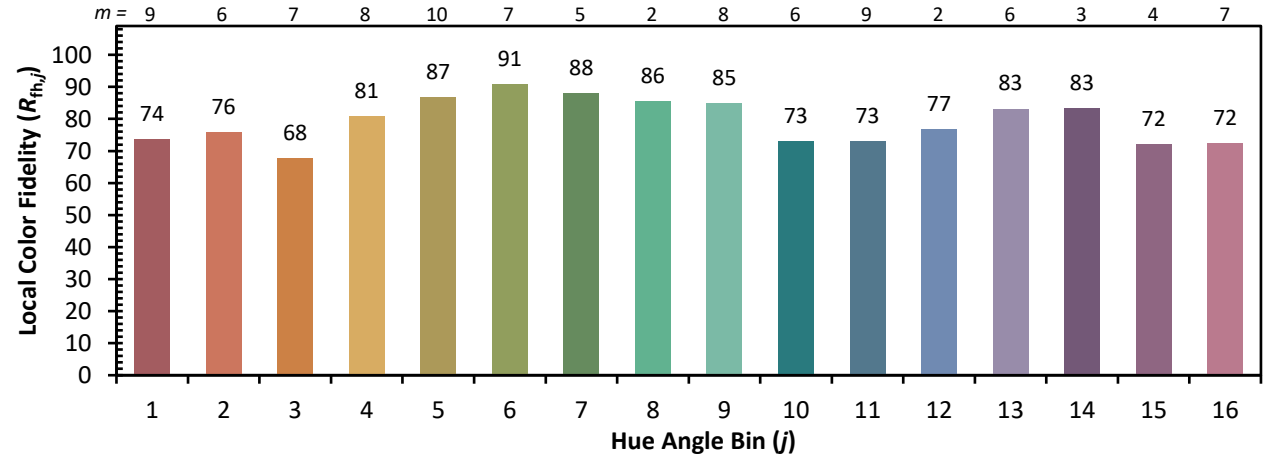
REPORT NUMBER: SP1-2501-332-11

TM-30-18

Color Rendition by Hue-Angle Bin



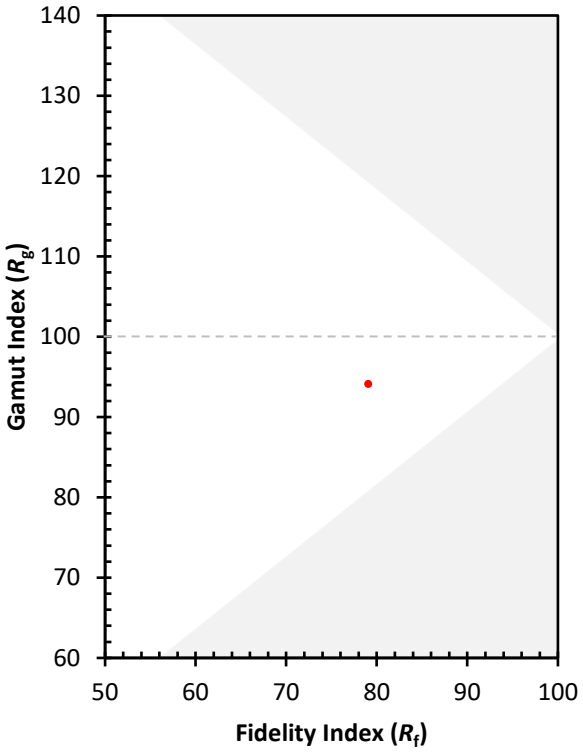


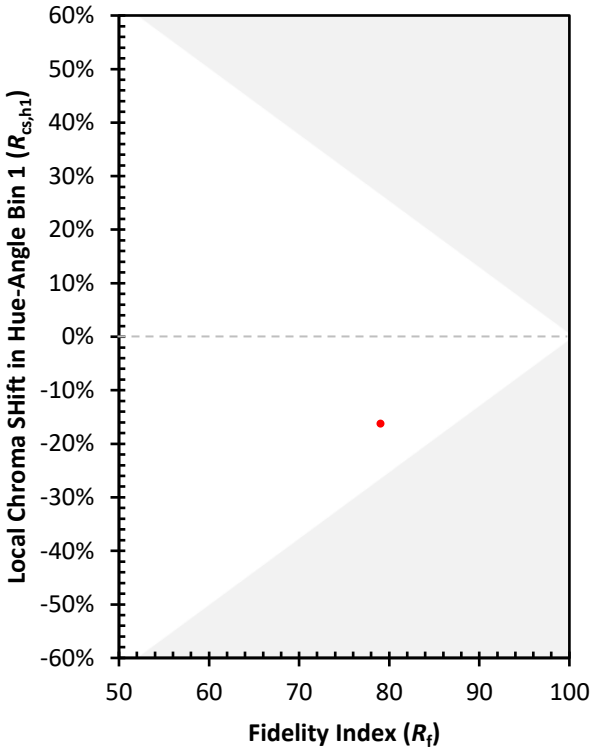


REPORT NUMBER: SP1-2501-332-11

TM-30-18

Measure Comparisons





(END OF REPORT)