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: P1223948

Luminaire Tested: **FFX-CLB-30-730-U-VM9-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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:	P1223948
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-U-VM9-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4309.8 lumens
Efficiency:	N/A
Efficacy:	140.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G3

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

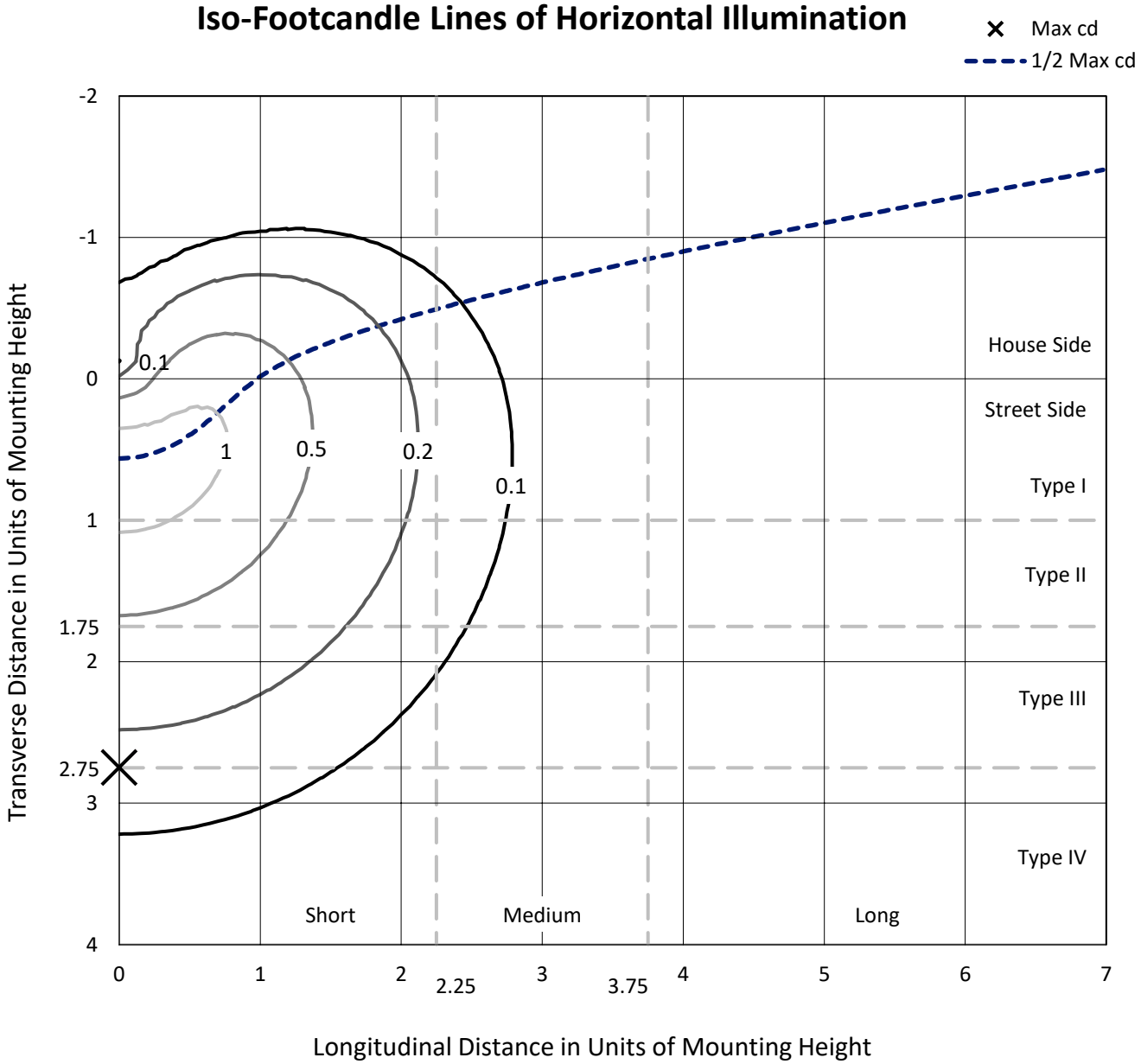


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223948
CATALOG NUMBER: FFX-CLB-30-730-U-VM9-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



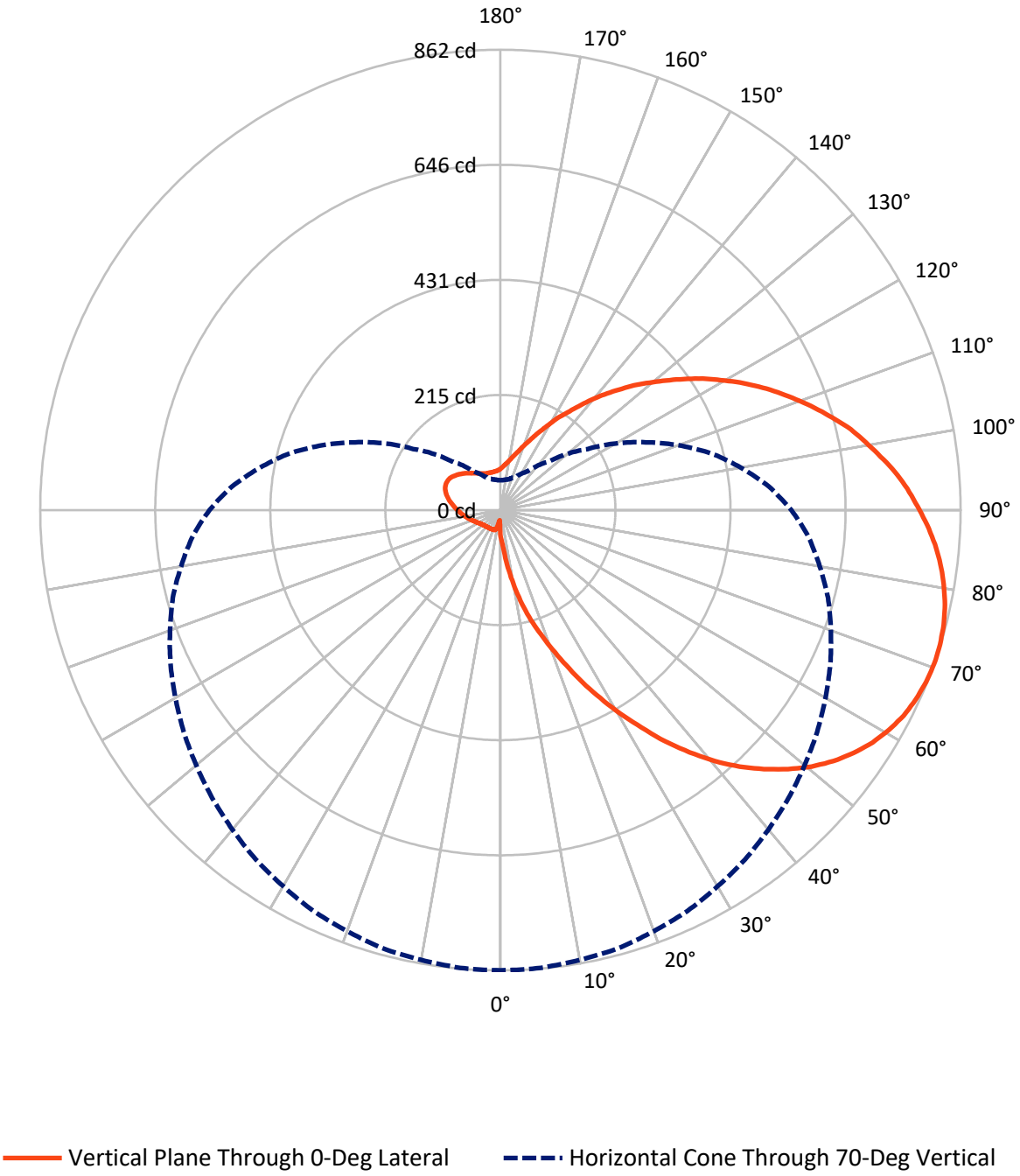
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223948
CATALOG NUMBER: FFX-CLB-30-730-U-VM9-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

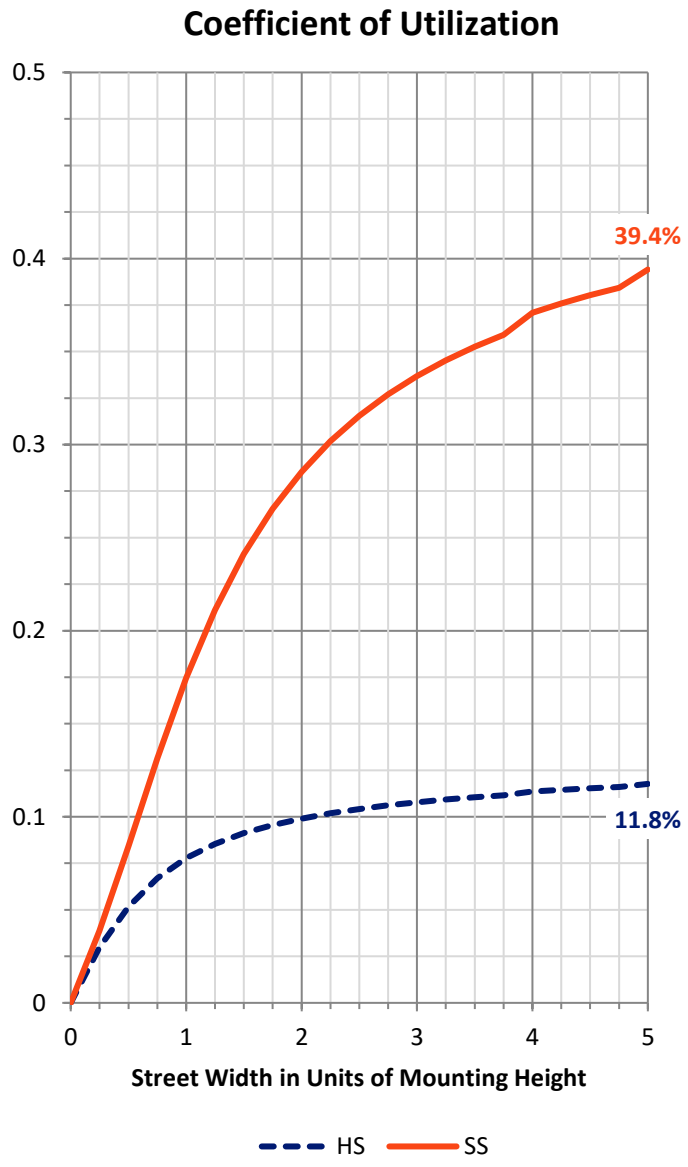
REPORT NUMBER: P1223948
CATALOG NUMBER: FFX-CLB-30-730-U-VM9-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.6	533.2	1085.8
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	1941.2	1282.8	3224.0
	% Fixture	45.0	29.8	74.8
Total	Lumens	2493.8	1816.0	4309.8
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.2
10°-20°	37.7	0.9
20°-30°	99.1	2.3
30°-40°	192.6	4.5
40°-50°	300.0	7.0
50°-60°	395.8	9.2
60°-70°	464.8	10.8
70°-80°	500.1	11.6
80°-90°	497.2	11.5
90°-100°	462.3	10.7
100°-110°	405.9	9.4
110°-120°	333.8	7.7
120°-130°	251.3	5.8
130°-140°	170.3	4.0
140°-150°	103.1	2.4
150°-160°	55.5	1.3
160°-170°	26.1	0.6
170°-180°	7.6	0.2
0°-90°	2493.8	57.9
0°-180°	4309.8	100.0



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

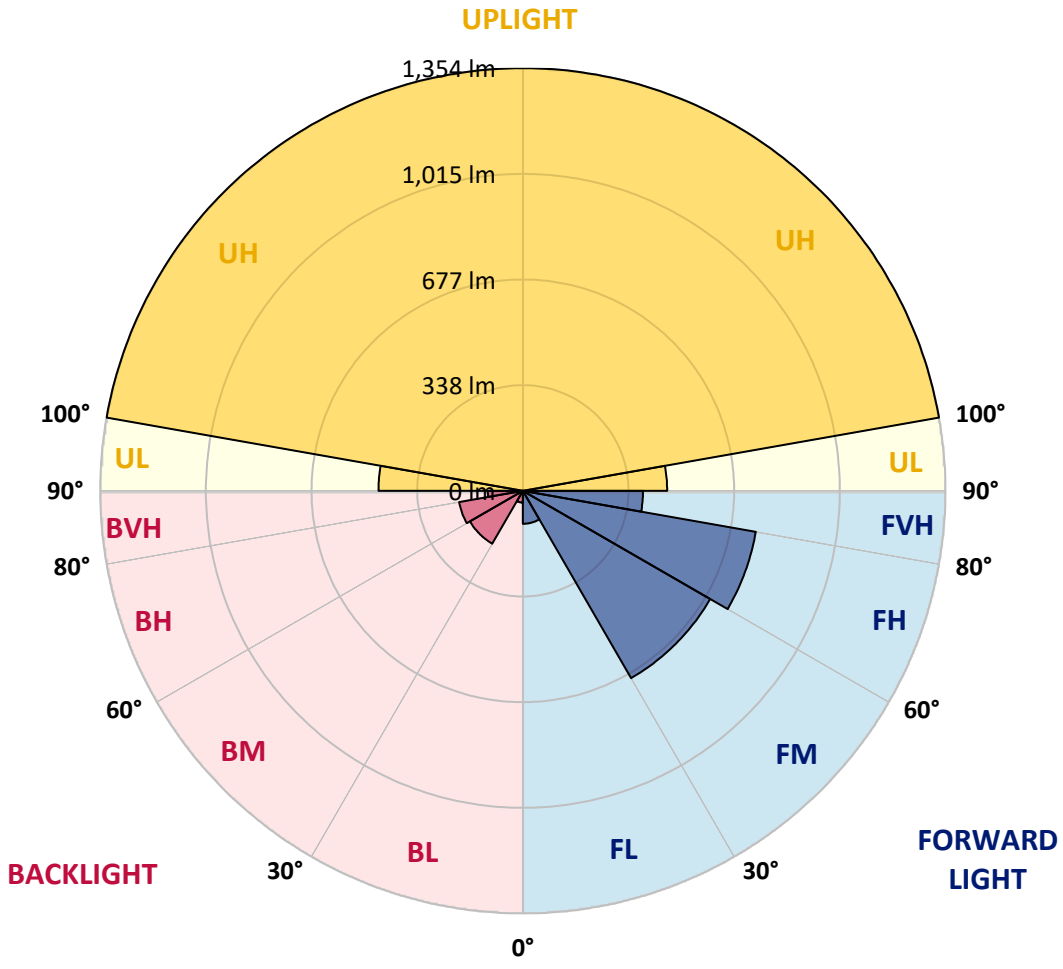
Scaled Data Report

REPORT NUMBER: P1223948
CATALOG NUMBER: FFX-CLB-30-730-U-VM9-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	105.6	2.4			
FM	(30°-60°)	692.9	16.1			
FH	(60°-80°)	757.8	17.6			G1/1800
FVH	(80°-90°)	384.9	8.9			G3/500
BL	(0°-30°)	37.7	0.9	B0/110		
BM	(30°-60°)	195.6	4.5	B0/220		
BH	(60°-80°)	207.1	4.8	B1/500		G1/500
BVH	(80°-90°)	112.3	2.6			G2/225
UL	(90°-100°)	462.3	10.7		U3/500	
UH	(100°-180°)	1353.7	31.4		U5	

BUG Rating: B1-U5-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1223948
CATALOG NUMBER: FFX-CLB-30-730-U-VM9-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	60.0	60.4	60.0	60.0	60.7	60.0	59.4	57.2	54.7	51.5	49.9
5°	84.1	84.1	85.6	85.6	84.1	80.6	76.5	70.8	65.7	60.4	56.6
7.5°	114.7	115.3	114.1	110.9	109.0	102.1	98.0	90.7	84.4	77.1	73.6
10°	146.6	146.9	145.4	142.5	136.5	129.6	123.6	115.0	106.8	97.3	92.3
12.5°	180.8	180.1	177.3	171.0	167.5	159.6	151.7	142.8	131.8	120.1	114.1
15°	213.3	212.0	210.8	204.1	199.4	191.5	182.3	170.3	157.4	144.4	135.6
17.5°	244.6	241.8	239.9	236.7	229.4	222.5	210.8	196.6	182.7	165.6	156.4
20°	278.1	278.7	275.6	271.1	263.2	253.1	241.8	226.6	209.2	189.0	177.9
22.5°	315.7	315.7	313.8	308.1	299.9	286.9	273.7	257.9	236.4	215.2	201.6
25°	357.4	355.2	352.7	345.4	338.5	324.6	308.8	291.7	269.2	243.7	228.5
27.5°	398.8	397.9	395.3	387.4	378.6	364.1	348.3	326.1	301.8	271.8	256.0
30°	442.7	441.8	439.3	431.7	418.7	404.5	385.5	361.8	335.3	301.5	284.1
32.5°	485.1	485.1	481.9	474.0	460.4	443.4	423.1	396.6	367.2	332.5	311.6
35°	532.2	531.9	526.2	516.7	500.3	485.4	462.7	434.8	401.7	361.8	339.7
37.5°	575.5	573.9	568.2	558.1	542.9	523.6	498.0	467.4	433.3	390.9	365.9
40°	618.1	616.2	611.2	599.8	581.5	559.7	533.4	500.6	462.0	418.1	392.2
42.5°	656.7	656.1	648.8	635.2	616.9	592.2	564.1	529.3	490.8	443.4	415.9
45°	691.8	691.8	684.5	669.6	648.8	623.8	592.9	557.1	516.1	466.4	437.4
47.5°	724.9	724.9	718.0	700.9	677.9	650.4	618.8	581.8	538.2	487.3	456.3
50°	755.0	753.7	745.8	726.8	703.5	674.7	641.5	602.6	558.7	505.9	474.7
52.5°	780.9	779.3	770.1	752.4	726.2	695.6	660.8	621.3	575.5	522.1	490.1
55°	802.7	801.7	792.9	772.7	745.2	714.5	677.5	636.5	591.3	535.7	503.4
57.5°	821.6	820.1	809.6	789.1	761.6	728.1	690.8	650.1	603.3	548.0	514.5
60°	835.9	834.3	823.5	803.0	775.2	739.8	702.5	661.1	613.7	557.8	523.6
62.5°	847.6	845.7	835.2	813.4	784.4	749.6	711.4	669.3	621.9	565.7	531.5
65°	854.8	853.3	843.1	821.3	791.3	756.2	718.0	675.6	628.6	571.7	537.5
67.5°	859.6	858.3	847.9	826.7	796.7	761.0	722.1	679.8	633.0	576.1	542.0
70°	861.8	860.5	849.8	828.3	798.6	762.9	724.0	681.7	635.2	579.3	544.8
71°	861.8	860.5	850.1	828.6	798.9	763.2	724.3	682.0	635.5	579.6	545.1
72.5°	860.8	859.9	849.5	827.7	797.9	762.6	723.4	681.7	635.5	579.9	545.8
75°	857.4	855.5	845.3	824.2	794.8	759.4	720.5	678.8	633.6	578.9	545.1
77.5°	851.0	849.5	839.0	818.5	789.1	753.4	714.8	674.1	629.8	575.8	542.6
80°	841.9	840.3	830.2	809.0	779.9	745.5	706.9	666.8	623.2	570.7	538.2
82.5°	830.2	828.9	819.1	797.9	769.2	735.1	696.5	657.3	615.9	563.8	531.9
85°	816.3	814.7	804.0	783.1	755.6	721.5	683.9	645.9	605.5	555.2	524.3
87.5°	799.5	798.6	787.8	767.9	740.4	706.6	670.6	633.6	593.8	545.8	515.7
90°	781.2	780.9	769.5	749.6	722.4	690.5	654.8	618.8	580.2	534.4	505.3
92.5°	762.9	762.9	751.5	731.0	704.1	672.5	638.7	603.9	567.3	523.0	495.2
95°	742.6	740.4	729.7	711.4	684.5	654.2	621.6	587.5	552.1	510.1	483.8
97.5°	718.9	718.3	707.9	688.3	663.6	634.6	603.0	571.4	537.2	496.8	471.8
100°	695.9	694.6	684.8	666.8	641.5	613.7	584.0	553.7	521.4	483.2	459.2
102.5°	673.1	670.0	659.8	641.5	619.4	592.2	564.4	536.6	505.0	468.7	446.2
105°	645.6	645.3	634.9	617.5	595.1	571.0	544.8	517.6	488.9	453.8	432.9
107.5°	618.8	618.8	609.0	591.9	570.7	547.7	524.3	498.7	472.1	438.3	419.4

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

Scaled Data Report

REPORT NUMBER: P1223948
CATALOG NUMBER: FFX-CLB-30-730-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*591.3*	591.0	582.1	566.9	546.7	524.6	503.1	479.7	453.2	423.5	404.8
112.5°	*564.1*	563.5	554.9	539.4	520.8	502.8	481.3	459.8	435.5	408.0	390.3
115°	*536.6*	536.0	526.8	513.2	496.1	477.5	459.5	438.9	417.8	390.3	374.8
117.5°	*508.2*	507.5	499.9	486.7	470.6	455.7	437.7	420.0	398.5	373.5	358.0
120°	*479.1*	479.4	471.8	459.8	445.0	431.0	415.2	399.1	379.2	355.5	340.7
122.5°	*451.6*	449.4	444.3	433.6	420.3	407.3	394.1	377.6	359.0	336.6	323.6
125°	*422.2*	421.6	416.5	405.8	394.4	384.3	372.0	357.1	340.0	317.3	305.6
127.5°	*393.8*	394.7	389.0	381.1	370.1	361.5	348.9	335.9	319.5	299.0	287.9
130°	*367.2*	366.6	363.4	355.2	346.0	337.2	327.7	316.0	300.5	280.0	269.9
132.5°	*342.6*	339.7	336.9	329.9	322.3	315.1	306.9	295.2	279.4	261.3	252.5
135°	*315.7*	315.7	311.3	305.3	299.9	292.9	284.7	274.0	260.4	244.6	234.5
137.5°	*291.1*	289.8	286.9	282.2	277.1	272.1	265.1	254.4	242.4	227.2	218.4
140°	*267.7*	266.7	264.2	260.1	256.0	251.2	244.9	235.7	224.7	210.2	202.6
142.5°	*243.3*	244.0	241.8	238.9	234.2	231.0	225.3	217.1	207.3	194.7	187.4
145°	*221.5*	221.8	220.9	218.1	214.6	211.4	205.4	199.4	189.9	178.6	173.2
147.5°	*203.5*	202.3	200.4	198.8	195.6	193.1	188.3	182.7	173.8	164.0	159.0
150°	*183.3*	184.2	182.3	180.4	178.6	175.1	171.6	166.9	158.6	150.7	145.4
152.5°	*166.2*	166.9	165.3	164.3	162.4	159.6	156.1	151.7	145.4	138.4	133.4
155°	*151.1*	151.1	151.1	149.8	147.6	145.7	142.2	138.1	132.7	126.4	122.9
157.5°	*137.2*	137.5	137.5	135.9	134.3	132.7	129.9	126.4	121.7	116.3	113.8
160°	*126.1*	125.5	125.1	123.9	122.6	121.4	118.8	116.0	111.9	107.4	105.2
162.5°	*115.0*	115.0	114.4	113.5	112.5	110.6	109.0	106.2	103.3	100.2	97.6
165°	*106.5*	106.2	106.2	104.9	104.0	102.4	100.8	98.9	96.4	93.5	91.6
167.5°	*99.2*	98.6	98.3	97.6	96.4	95.4	93.9	92.3	90.4	88.5	86.9
170°	*92.3*	92.6	92.0	91.3	90.7	89.7	88.5	87.2	85.6	83.7	83.1
172.5°	*87.5*	87.2	86.9	86.3	85.6	84.7	84.1	82.8	81.8	80.6	80.0
175°	*83.1*	83.1	82.8	82.2	81.5	80.9	80.3	79.6	79.0	78.1	77.7
177.5°	*79.6*	79.6	79.6	79.0	78.7	78.4	77.7	77.4	77.1	76.5	76.5
180°	*76.2*	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2

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

Scaled Data Report

REPORT NUMBER: P1223948
CATALOG NUMBER: FFX-CLB-30-730-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	48.4	44.2	40.8	37.6	35.1	32.9	31.6	29.4	27.8	26.9
5°	54.4	48.4	43.3	38.2	34.4	30.3	26.2	22.1	19.6	19.3
7.5°	68.9	62.3	54.7	48.0	40.5	34.1	28.8	24.6	23.1	22.8
10°	87.2	77.4	67.3	57.5	47.7	39.8	34.1	30.3	28.4	28.1
12.5°	107.4	94.2	81.2	68.6	56.9	48.0	41.1	36.7	34.4	34.4
15°	128.3	111.9	95.4	80.0	66.4	55.3	46.8	41.1	38.6	38.2
17.5°	146.6	128.0	108.4	90.1	73.6	59.7	49.6	42.7	39.5	39.2
20°	167.5	143.8	121.4	98.6	79.3	63.2	51.2	43.3	39.2	38.9
22.5°	189.6	162.7	134.9	108.4	85.3	66.7	52.8	43.9	39.5	38.9
25°	214.6	182.3	148.8	118.2	91.3	69.8	54.4	44.6	39.8	39.2
27.5°	238.3	202.6	163.7	127.4	96.7	72.7	55.6	45.2	40.1	39.5
30°	263.6	222.5	178.2	137.2	102.4	75.5	56.9	45.5	40.1	39.5
32.5°	289.2	241.8	193.4	146.0	107.1	77.4	57.5	45.8	40.5	39.8
35°	316.3	262.6	207.6	155.2	111.6	79.3	58.1	46.1	40.5	39.8
37.5°	341.3	282.5	221.5	163.1	115.3	80.9	58.8	46.1	40.8	40.1
40°	363.7	300.5	233.9	170.0	118.5	81.8	59.1	46.5	41.1	40.5
42.5°	385.9	318.2	244.9	175.7	121.0	82.5	59.4	46.8	41.4	40.8
45°	405.5	333.1	255.0	181.1	122.9	83.1	59.7	47.1	41.7	41.1
47.5°	422.8	347.0	264.5	185.5	124.2	83.4	60.0	47.4	42.3	41.7
50°	439.6	360.3	271.8	189.0	125.5	83.7	60.0	48.0	43.3	42.7
52.5°	453.8	371.0	278.4	191.8	126.1	84.1	60.7	48.7	43.9	43.6
55°	466.1	380.5	284.4	194.0	126.7	84.1	61.3	49.6	45.2	44.6
57.5°	476.2	388.1	288.5	195.3	126.7	84.4	61.6	50.9	46.5	45.8
60°	485.1	394.7	292.3	196.9	127.0	84.7	62.6	52.1	48.0	47.7
62.5°	492.4	399.8	295.2	197.8	127.4	85.6	63.8	53.7	49.6	49.3
65°	498.0	404.2	297.4	198.5	127.7	86.3	65.1	55.3	51.8	51.5
67.5°	501.8	407.3	299.0	198.8	128.0	87.2	66.7	57.5	54.0	53.4
70°	*504.7*	*409.2*	*299.9*	*199.1*	*128.6*	*88.2*	*68.6*	*59.4*	*56.3*	*55.9*
71°	505.3	409.6	300.2	199.1	128.9	88.8	69.2	60.4	57.2	56.9
72.5°	505.6	409.9	300.2	199.1	129.3	89.7	70.5	61.9	58.8	58.5
75°	505.3	409.6	299.9	199.1	129.9	91.3	72.7	64.2	61.3	61.0
77.5°	503.1	408.3	299.0	199.1	130.8	93.2	75.2	67.3	64.2	63.8
80°	499.3	405.8	297.4	198.8	131.8	95.4	77.7	70.2	67.0	66.7
82.5°	494.3	402.0	295.2	198.8	133.0	97.3	80.3	72.7	70.2	69.8
85°	487.6	397.6	292.9	198.5	134.6	99.9	83.4	76.2	73.6	73.0
87.5°	479.7	392.2	290.4	198.5	136.2	102.7	86.6	79.3	76.8	76.2
90°	470.9	386.2	287.9	198.5	138.1	105.6	90.1	82.8	80.0	79.6
92.5°	462.0	380.5	285.4	198.8	140.6	108.7	93.5	86.6	83.7	83.7
95°	451.9	373.5	282.5	199.4	143.2	112.2	97.6	90.4	87.5	87.2
97.5°	441.8	367.2	280.3	200.4	146.0	116.3	101.4	94.5	91.6	91.0
100°	430.4	360.6	278.1	201.6	149.5	120.1	105.6	98.6	95.8	95.4
102.5°	419.4	353.3	275.6	203.2	153.0	124.5	110.0	102.7	99.9	99.5
105°	407.3	345.7	272.7	204.5	156.4	128.6	114.1	106.5	103.3	103.3
107.5°	395.7	337.8	269.9	206.0	159.9	132.7	117.9	110.3	106.8	106.5

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

Scaled Data Report

REPORT NUMBER: P1223948
CATALOG NUMBER: FFX-CLB-30-730-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	382.4	329.3	266.4	207.0	163.1	136.2	121.4	113.1	109.7	109.3
112.5°	370.4	320.1	262.6	207.3	165.9	139.4	124.2	115.7	112.2	111.6
115°	355.2	310.6	257.6	206.7	167.5	141.9	126.1	117.2	113.5	112.8
117.5°	340.7	299.9	252.2	205.1	168.4	143.2	127.4	118.2	114.1	113.5
120°	325.8	287.9	244.6	202.3	167.5	143.2	127.4	117.6	113.5	113.1
122.5°	309.1	275.3	236.7	198.1	165.9	141.9	126.1	116.6	112.2	111.9
125°	291.7	261.7	227.2	192.5	162.7	140.0	124.2	114.7	110.3	110.0
127.5°	274.9	247.8	217.4	185.8	158.3	136.8	121.7	111.9	107.4	106.8
130°	258.5	233.2	206.4	177.9	153.0	132.7	118.2	109.0	104.6	104.0
132.5°	241.4	219.3	195.3	170.3	147.3	128.3	114.4	105.6	101.4	100.8
135°	225.3	204.8	183.3	161.2	140.6	123.2	110.3	102.1	98.0	97.6
137.5°	209.8	191.2	172.2	152.3	134.0	118.2	106.2	98.6	94.8	94.2
140°	194.0	177.9	160.9	143.8	126.7	112.8	102.1	94.8	91.3	90.7
142.5°	180.4	165.3	150.1	134.3	119.8	107.1	97.6	91.0	88.2	87.9
145°	166.2	153.0	139.4	125.8	113.1	102.1	93.5	87.9	85.0	84.7
147.5°	153.6	140.9	129.3	117.6	106.5	96.7	89.4	84.7	82.5	82.2
150°	140.6	130.5	120.4	109.7	100.2	92.0	86.0	81.8	79.6	79.3
152.5°	129.3	120.7	111.6	103.3	94.5	87.9	82.8	79.0	77.4	77.1
155°	119.5	112.2	104.6	97.0	90.1	84.7	80.3	77.1	75.8	75.8
157.5°	110.9	104.6	98.3	92.0	86.3	81.5	78.1	75.8	74.6	74.3
160°	102.7	97.6	92.0	87.2	82.8	79.3	76.5	74.6	73.6	73.3
162.5°	96.1	91.6	87.9	83.7	80.3	77.4	75.2	73.6	73.0	73.0
165°	90.4	87.2	83.7	80.9	78.1	75.8	74.3	73.3	72.7	72.7
167.5°	86.0	83.1	80.9	78.4	76.5	74.9	73.6	73.0	72.7	72.4
170°	82.2	80.3	78.4	76.8	75.2	74.3	73.3	73.0	72.7	72.7
172.5°	79.3	78.1	76.8	75.5	74.6	73.6	73.3	73.0	73.0	73.0
175°	77.1	76.5	75.5	74.9	74.3	73.9	73.6	73.6	73.6	73.6
177.5°	76.2	75.5	75.2	74.9	74.6	74.6	74.6	74.9	74.9	74.9
180°	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2

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: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

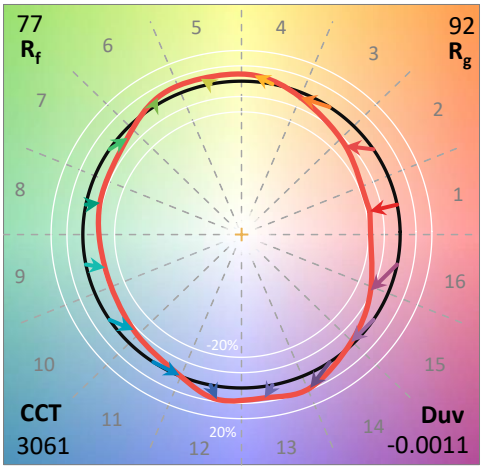
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
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-100-730-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

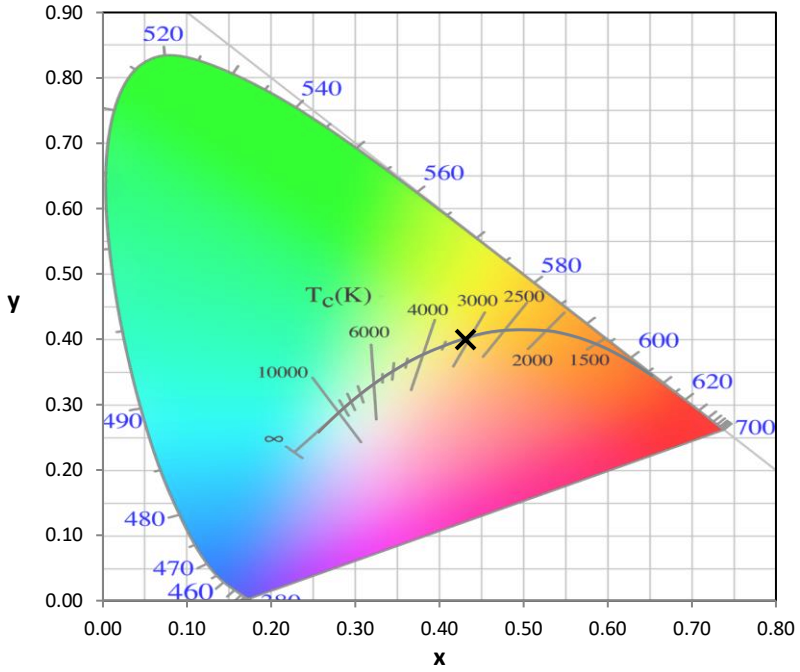
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

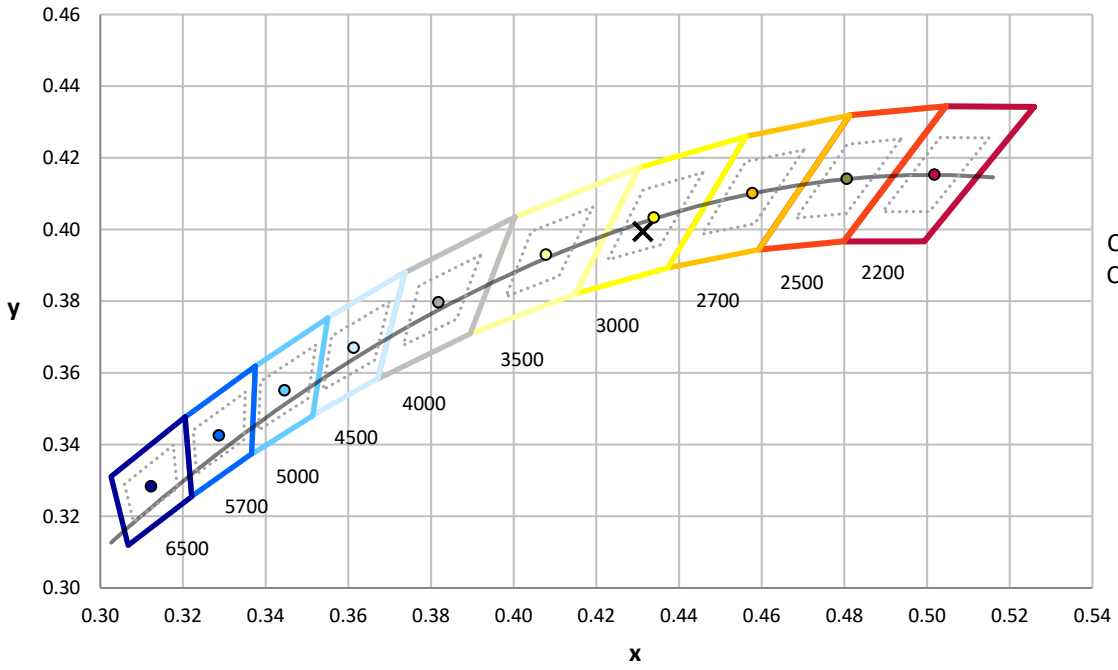
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



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

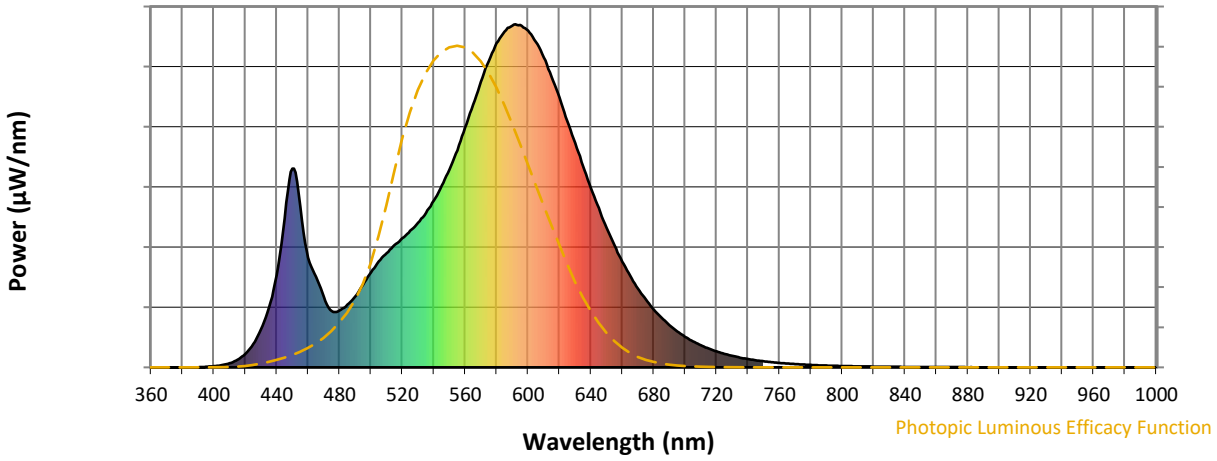


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

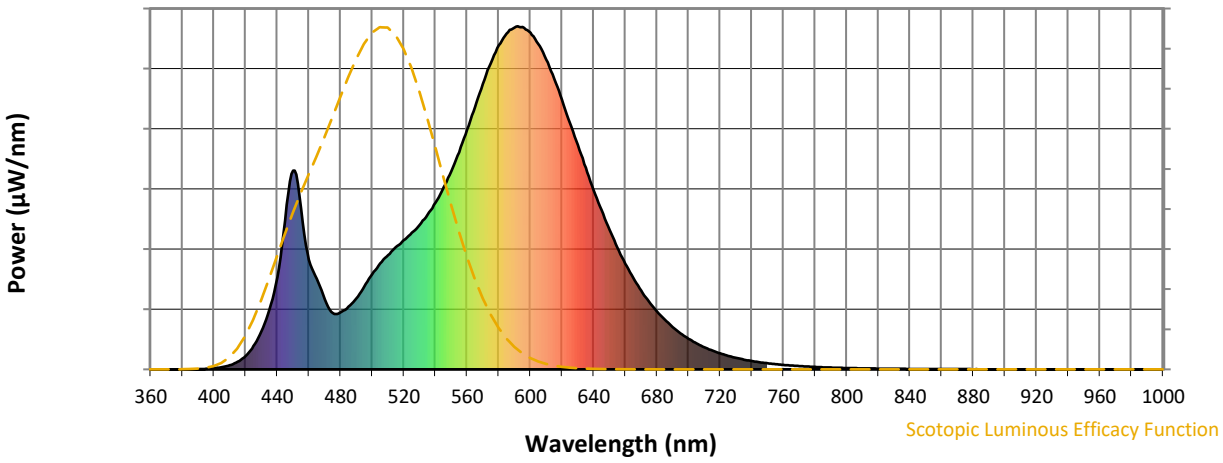


Photopic Lumens: NR

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

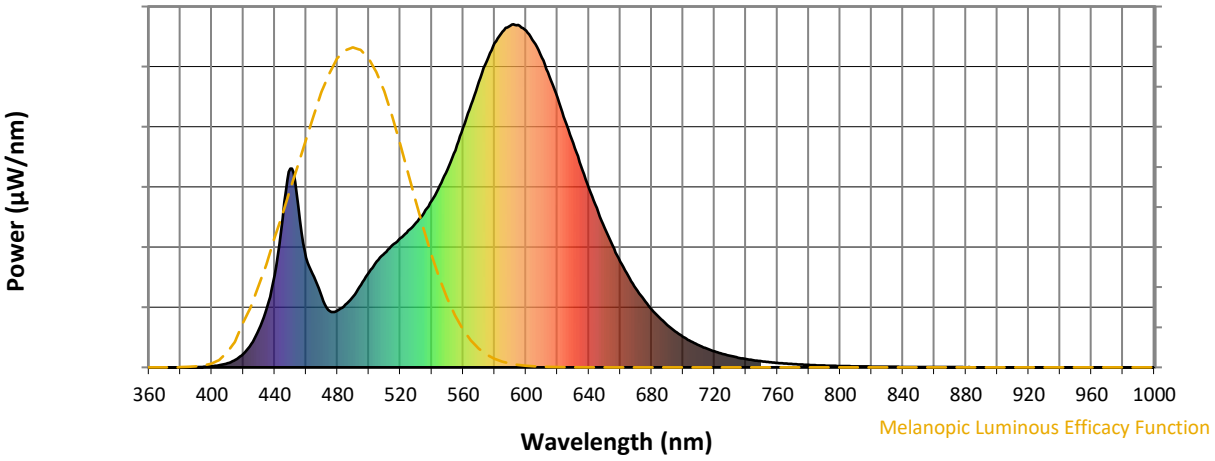


Scotopic Lumens: NR **S/P: 1.29**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

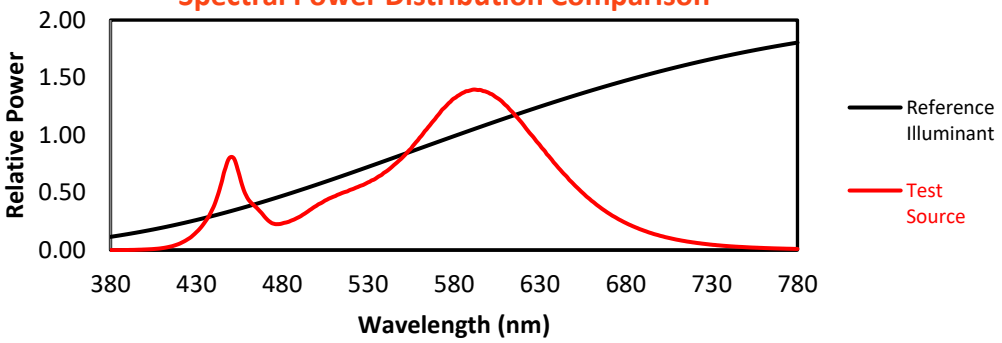
REPORT NUMBER: SP1-2501-332-4

TM-30-18

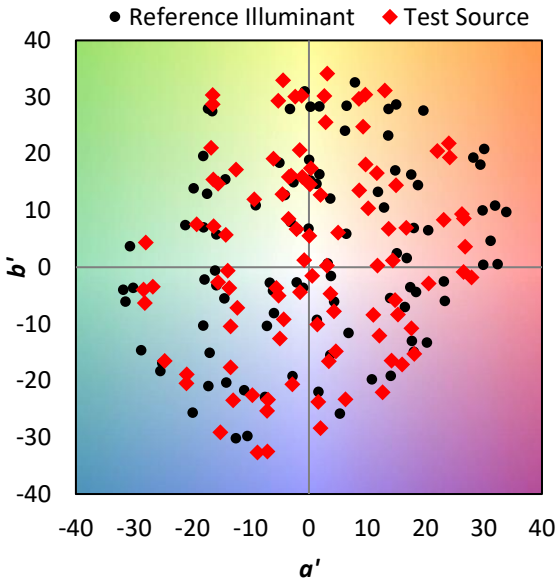
Summary

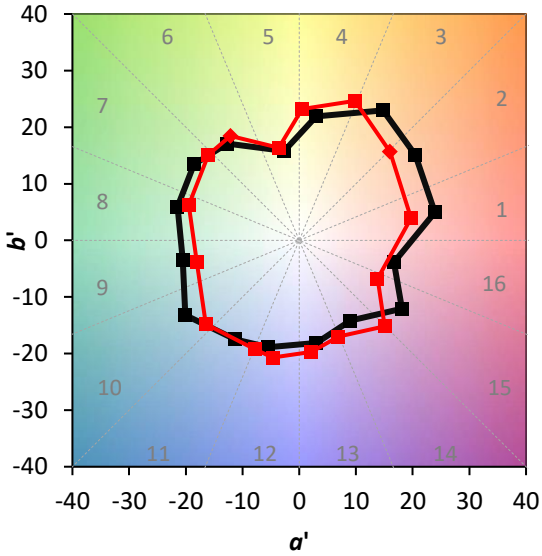
R_f = 76.8
R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

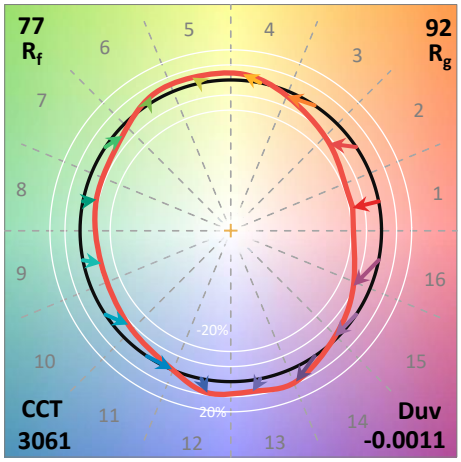
Spectral Power Distribution Comparison

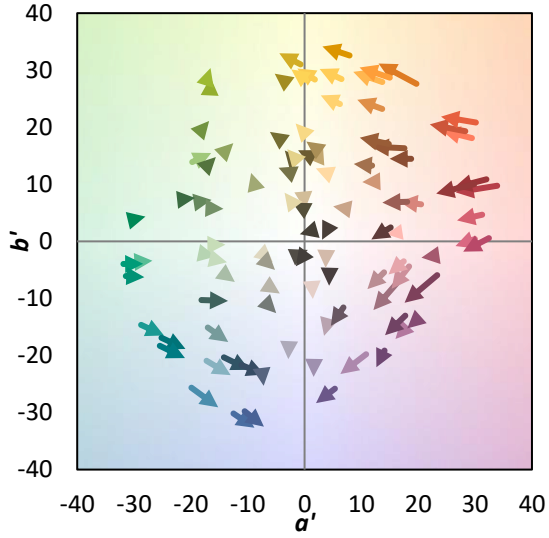


Color Vector Graphics







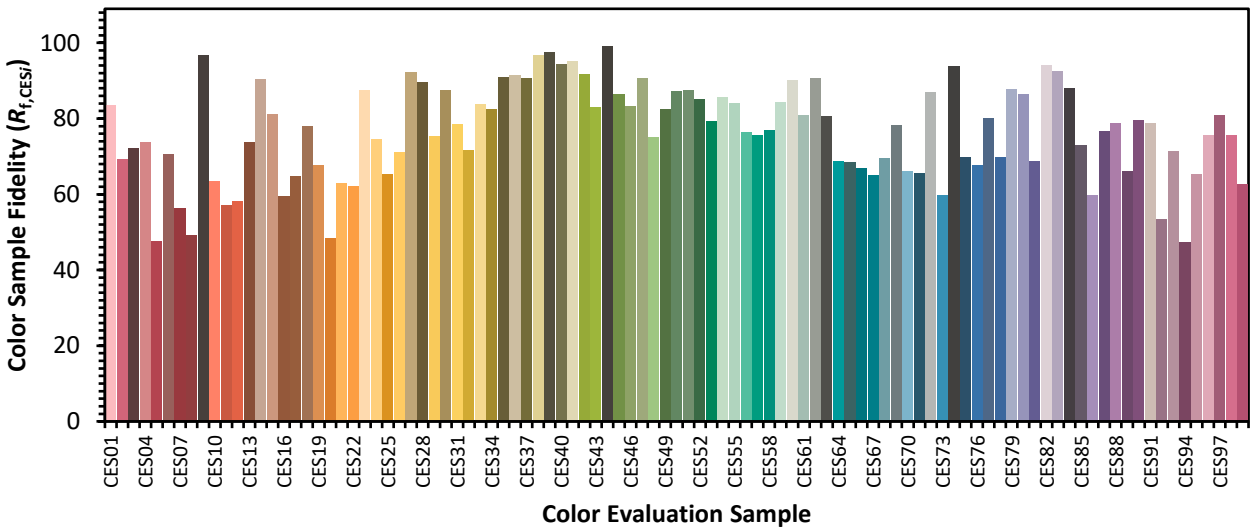


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

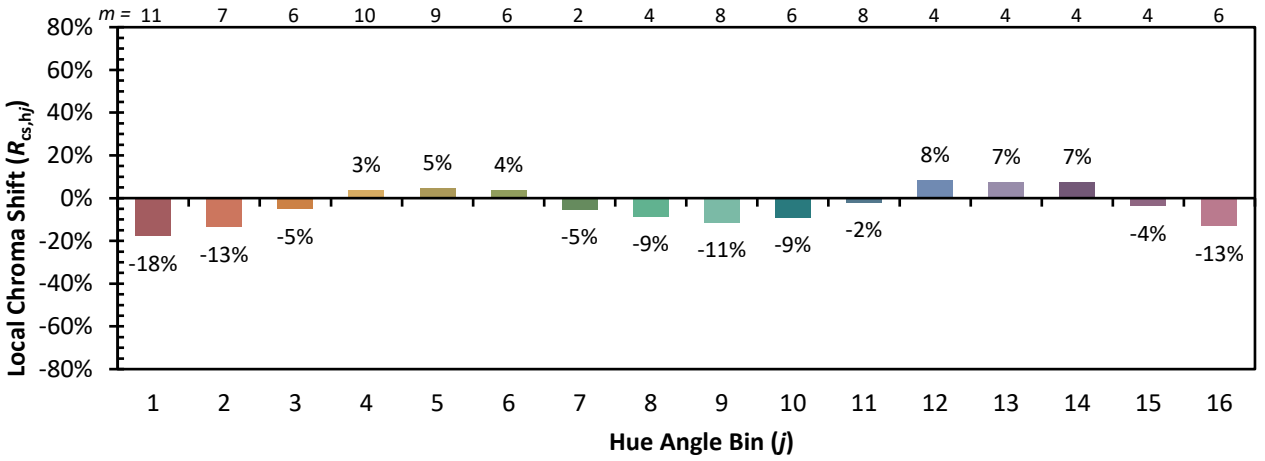
CES01 = 86	CES26 = 71	CES51 = 88	CES76 = 68
CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
CES25 = 73	CES50 = 87	CES75 = 70	

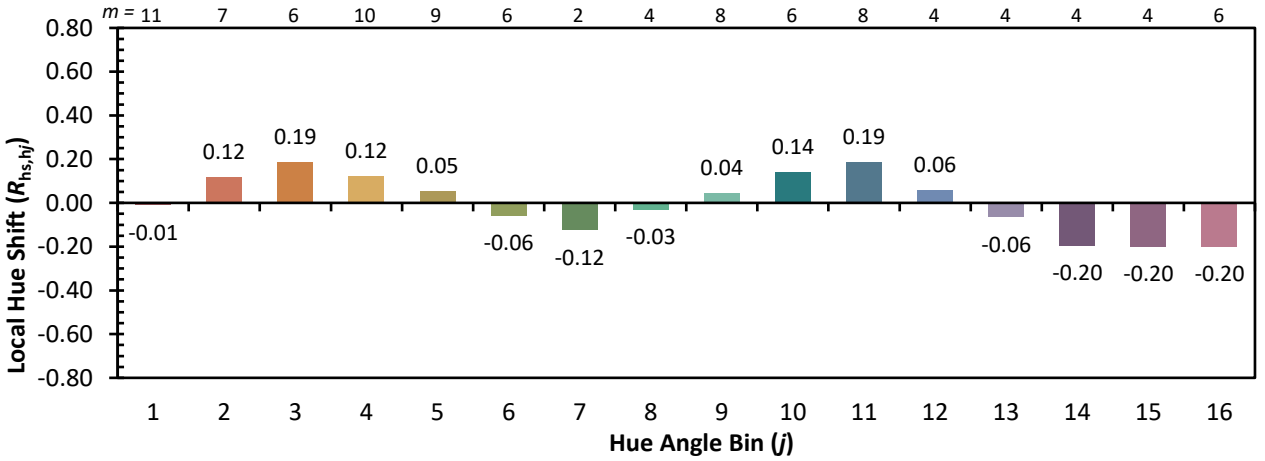


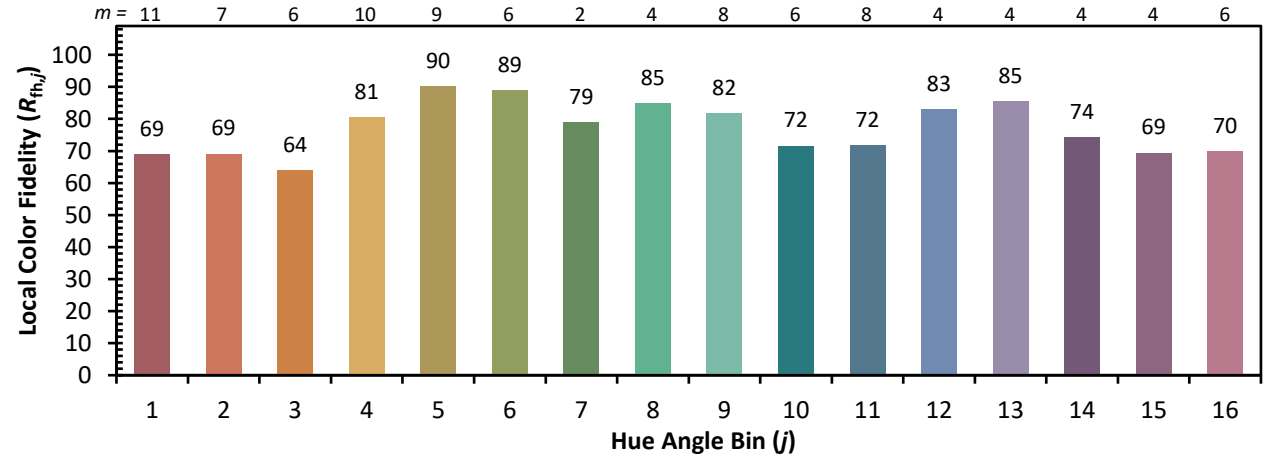
REPORT NUMBER: SP1-2501-332-4

TM-30-18

Color Rendition by Hue-Angle Bin



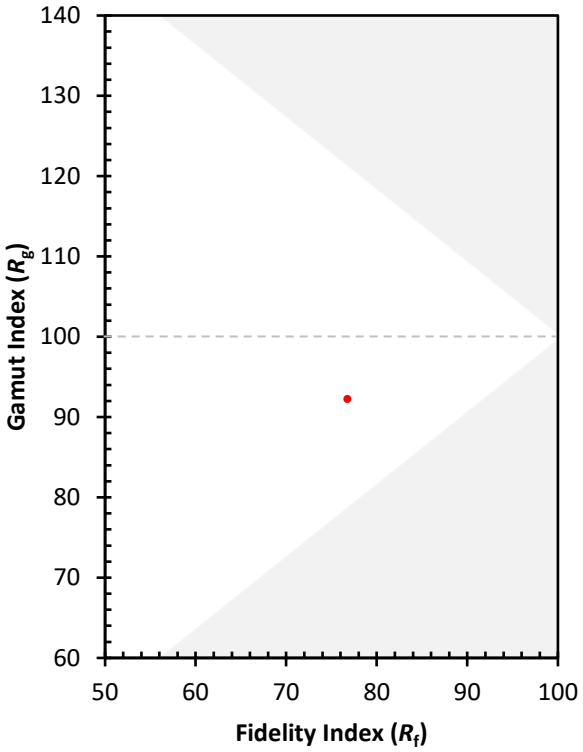


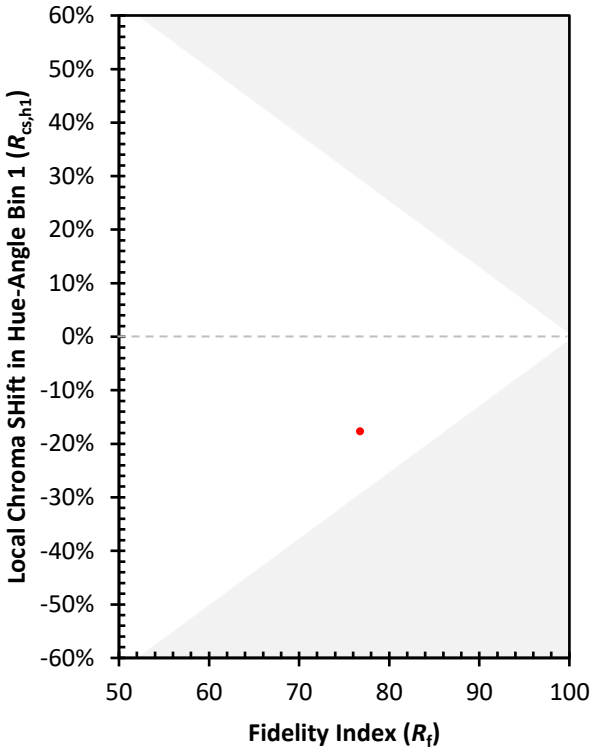


REPORT NUMBER: SP1-2501-332-4

TM-30-18

Measure Comparisons





(END OF REPORT)