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: P1046589

Luminaire Tested: **FFX-CLB-80-722-U-FR-T3-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:	P1046589
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-722-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9389.7 lumens
Efficiency:	N/A
Efficacy:	114.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

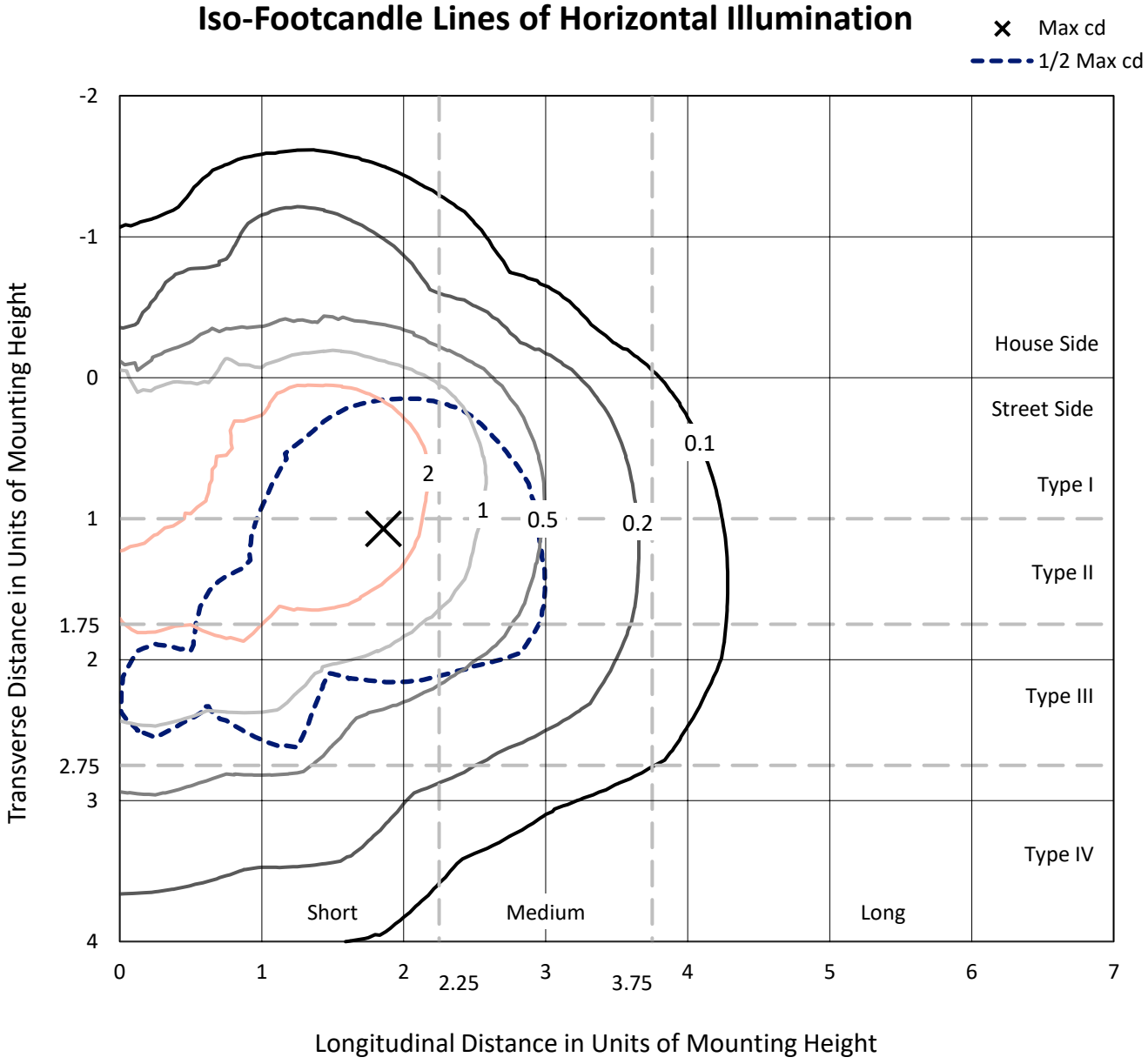


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046589
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



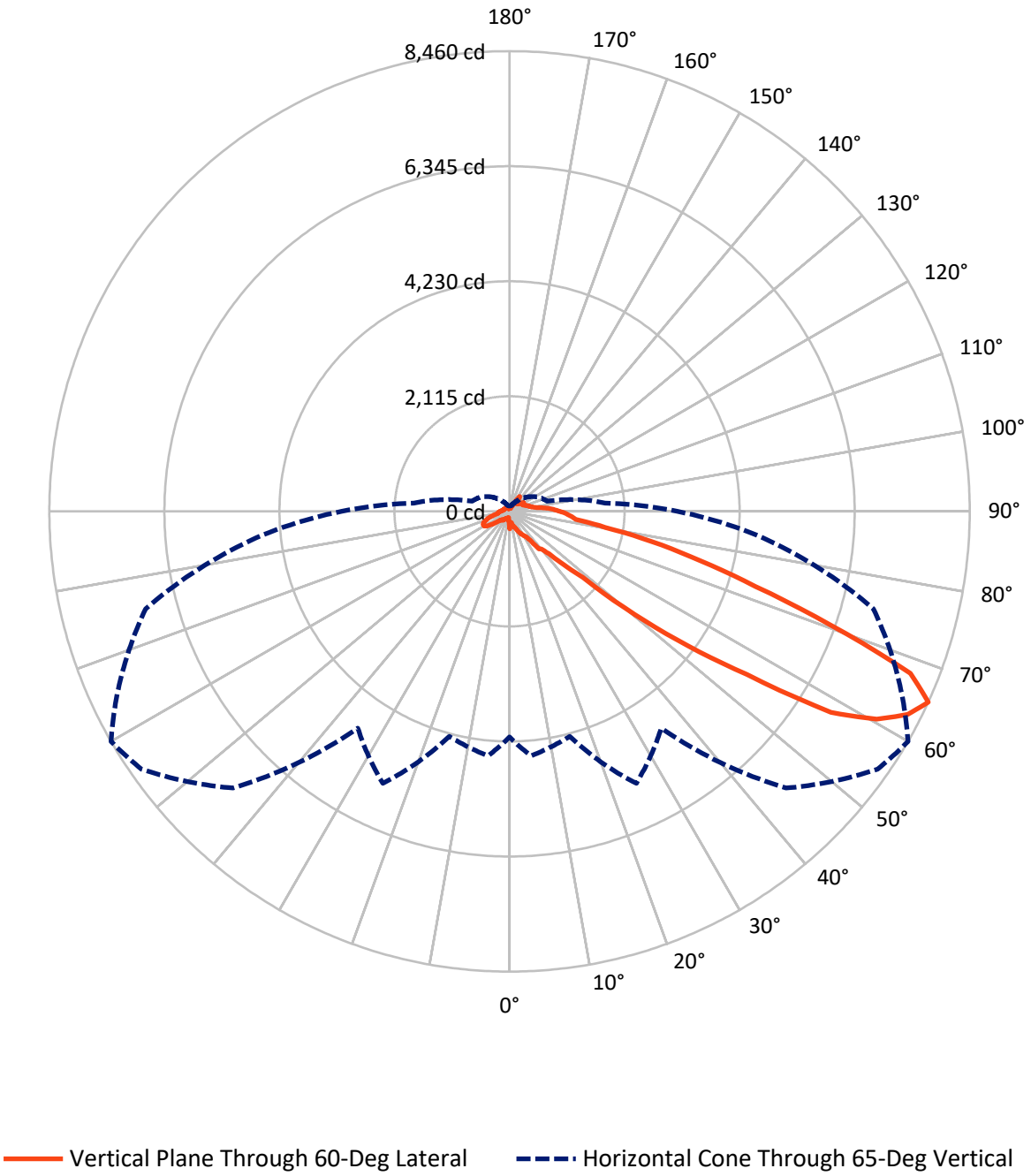
Based on 15 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046589
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

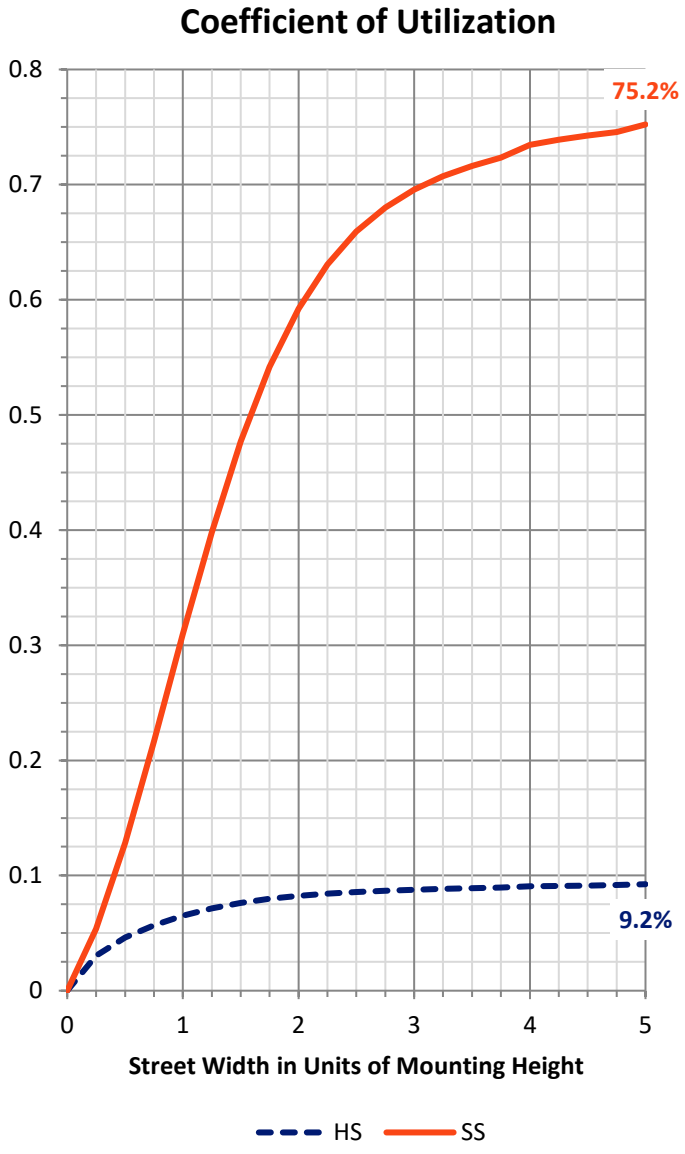
REPORT NUMBER: P1046589
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	910.4	293.9	1204.3
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	7316.9	868.5	8185.5
	% Fixture	77.9	9.2	87.2
Total	Lumens	8227.4	1162.4	9389.7
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	0.2
10°-20°	60.1	0.6
20°-30°	128.5	1.4
30°-40°	263.7	2.8
40°-50°	617.9	6.6
50°-60°	1932.8	20.6
60°-70°	3026.4	32.2
70°-80°	1601.0	17.1
80°-90°	579.7	6.2
90°-100°	349.6	3.7
100°-110°	219.0	2.3
110°-120°	177.0	1.9
120°-130°	147.6	1.6
130°-140°	107.5	1.1
140°-150°	98.8	1.1
150°-160°	41.1	0.4
160°-170°	16.4	0.2
170°-180°	5.3	0.1
0°-90°	8227.4	87.6
0°-180°	9389.7	100.0



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

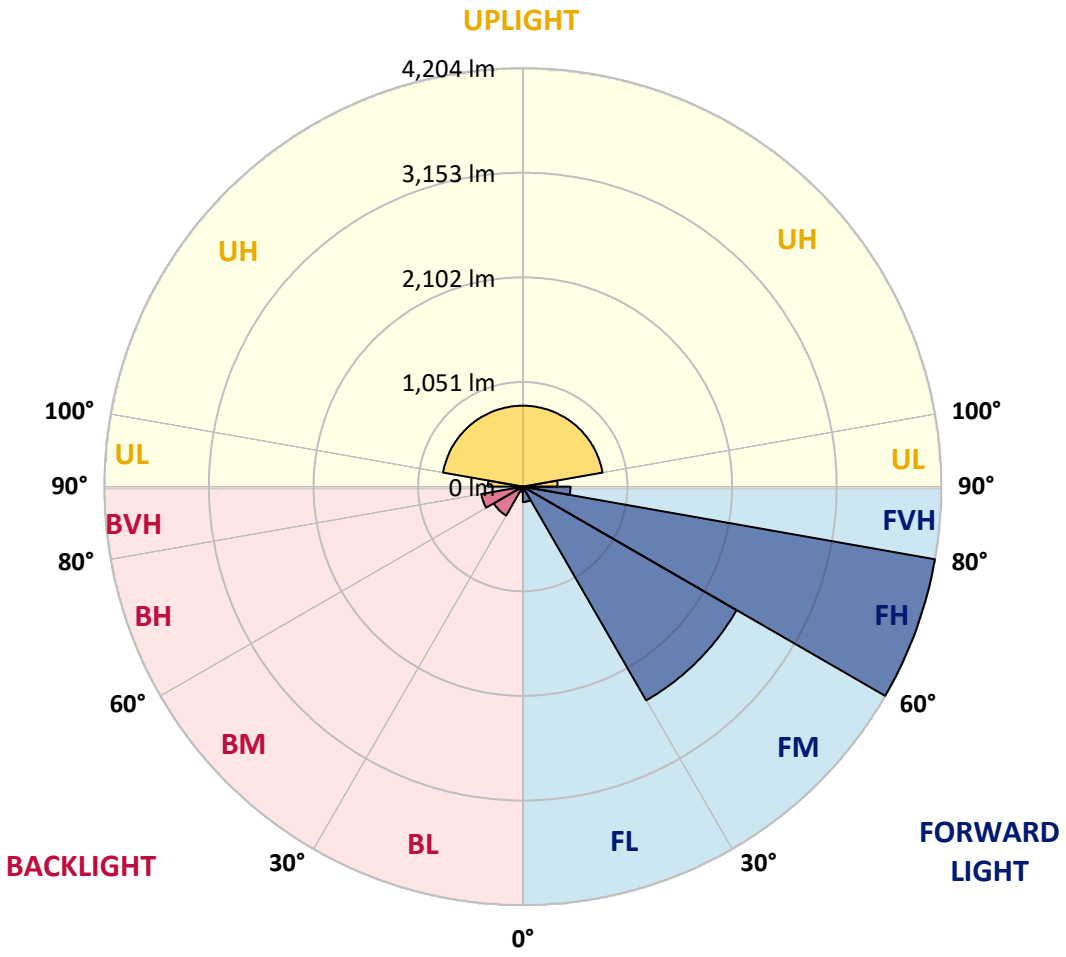
Scaled Data Report

REPORT NUMBER: P1046589
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	154.8	1.6			
FM	(30°-60°)	2479.6	26.4			
FH	(60°-80°)	4203.6	44.8			G2/5000
FVH	(80°-90°)	479.0	5.1			G3/500
BL	(0°-30°)	51.1	0.5	B0/110		
BM	(30°-60°)	334.8	3.6	B1/1000		
BH	(60°-80°)	423.8	4.5	B1/500		G1/500
BVH	(80°-90°)	100.7	1.1			G2/225
UL	(90°-100°)	349.6	3.7		U3/500	
UH	(100°-180°)	812.8	8.7		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1046589
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4
2.5°	175.8	182.7	222.5	263.7	275.4	250.0	216.3	220.4	239.0	327.6	366.7
5°	206.0	208.1	204.6	209.5	238.3	274.7	253.4	228.7	195.7	141.5	140.1
7.5°	236.9	236.9	235.6	218.4	198.5	192.3	210.8	214.3	210.8	175.8	151.8
10°	258.2	258.2	257.5	258.9	260.3	253.4	223.2	211.5	199.2	184.0	177.2
12.5°	313.2	314.5	323.5	318.6	300.8	282.3	285.7	282.3	263.7	231.4	204.6
15°	383.2	386.0	387.3	369.5	340.6	306.3	284.3	278.8	275.4	256.8	230.1
17.5°	419.6	418.2	401.7	383.2	364.7	339.9	319.3	311.1	298.7	275.4	246.5
20°	415.5	415.5	399.0	394.9	396.3	381.1	355.0	344.7	331.0	309.0	269.2
22.5°	427.2	427.8	417.5	421.0	436.1	421.0	395.6	388.7	375.6	344.1	303.5
25°	471.8	471.8	460.1	455.3	468.4	462.9	448.4	440.2	421.7	383.2	311.8
27.5°	512.3	509.6	498.6	500.0	487.6	484.8	481.4	478.0	461.5	400.4	315.9
30°	543.9	543.9	534.3	540.5	514.4	518.5	506.1	515.7	494.5	423.7	331.7
32.5°	572.7	576.9	573.4	581.7	550.8	568.6	547.3	557.6	544.6	465.6	376.3
35°	639.4	644.2	660.0	680.6	642.8	661.3	627.7	642.1	629.1	560.4	462.2
37.5°	903.8	896.2	861.9	828.2	791.8	868.0	859.8	873.5	852.9	742.4	583.7
40°	909.3	905.1	898.3	877.0	808.3	883.8	887.3	912.0	973.8	796.6	631.1
42.5°	932.6	937.4	1019.1	1029.4	977.9	1095.4	1063.1	1064.5	1276.0	943.6	814.5
45°	1078.9	1078.9	1105.0	1118.0	1102.9	1440.1	1435.3	1394.1	1660.5	1177.1	958.0
47.5°	1236.8	1241.6	1289.7	1418.8	1503.3	1822.6	1917.4	1818.5	2168.1	1544.5	1319.9
50°	1699.0	1708.6	1858.3	1971.6	2130.3	2668.0	3134.3	2983.9	3532.6	2356.2	1988.8
52.5°	2033.5	2152.9	2235.4	2661.8	2723.6	3549.8	4151.4	4099.9	4468.0	3261.4	2413.9
55°	2420.1	2606.2	2661.1	3322.5	3433.0	4580.6	5204.8	5296.2	5318.8	4215.9	2837.6
57.5°	3056.7	3345.1	3355.4	4054.5	4073.8	5774.2	6767.9	6969.1	6739.7	5327.1	3505.8
60°	3581.4	3919.3	3805.9	4757.8	4566.9	6739.7	7528.1	7756.1	7330.3	6276.8	3972.8
62.5°	3906.2	4232.4	4083.4	5252.2	4863.5	7153.8	7982.0	8216.2	7747.9	6781.6	4332.0
65°	4148.6	4510.5	4281.2	5515.9	4862.8	7190.9	8262.2	8460.0	7958.7	6926.5	4437.7
67.5°	4153.4	4478.3	4191.9	5421.9	4539.4	6603.7	7824.8	7949.8	7393.5	6412.1	4123.2
70°	3630.8	3864.3	3546.4	4575.8	3661.7	5011.9	6110.7	6259.0	5699.3	4929.5	3194.7
72.5°	3038.2	3129.5	2814.3	3659.7	2867.8	3792.9	4671.2	4726.9	4430.9	3692.6	2469.5
75°	2385.8	2350.7	2187.3	2728.4	2180.4	2687.2	3668.6	3615.0	3452.3	2717.4	1884.4
77.5°	1591.9	1526.6	1534.9	1872.1	1523.2	1778.0	2671.4	2673.5	2616.5	2014.9	1344.0
80°	971.1	973.1	946.3	1187.4	1005.4	1181.9	1841.2	1780.7	1782.1	1328.9	940.8
82.5°	759.5	771.9	738.3	855.7	791.8	940.2	1203.2	1236.8	1200.4	975.9	692.9
85°	745.8	756.8	721.8	794.6	752.7	898.3	1131.8	1129.0	1109.8	905.1	655.2
87.5°	683.3	696.4	670.3	721.1	688.8	831.6	1041.8	1028.1	1009.5	851.6	624.9
90°	576.9	600.9	583.0	646.2	601.6	715.6	905.8	900.3	890.7	752.7	556.3
92.5°	524.7	529.5	516.4	573.4	524.0	627.0	804.2	787.0	765.7	653.1	473.9
95°	469.7	467.7	455.3	501.3	457.4	524.7	683.3	657.2	646.2	551.5	395.6
97.5°	376.3	377.0	370.8	402.4	370.8	418.9	513.0	503.4	481.4	412.0	302.9
100°	329.6	331.7	327.6	352.3	325.5	356.4	427.2	425.1	407.2	351.6	264.4
102.5°	311.8	312.5	318.0	333.1	307.7	330.3	389.4	390.1	378.4	327.6	248.6
105°	299.4	298.7	302.9	315.2	293.2	309.7	364.0	364.0	347.5	309.0	235.6
107.5°	289.8	288.4	295.3	305.6	290.5	295.3	337.2	339.9	324.1	287.7	223.9
110°	278.8	278.1	289.8	297.4	282.9	283.6	320.0	318.0	303.5	280.2	220.4

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

Scaled Data Report

REPORT NUMBER: P1046589
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	282.9	287.1	300.1	278.8	257.5	258.9	287.1	*290.5*	280.2	256.2	209.5
115°	279.5	283.6	300.8	270.6	239.0	247.2	270.6	*273.3*	258.2	238.3	197.1
117.5°	267.1	268.5	278.8	271.3	238.3	247.9	259.6	*264.4*	253.4	238.3	199.2
120°	315.9	305.6	305.6	293.9	256.8	274.0	296.0	*300.1*	289.8	261.6	198.5
122.5°	290.5	287.1	287.7	272.6	254.1	268.5	294.6	*301.5*	292.6	264.4	198.5
125°	228.7	229.4	225.9	230.7	223.2	228.0	241.7	*252.7*	244.5	229.4	188.9
127.5°	208.1	207.4	203.3	223.9	200.5	210.1	223.2	*229.4*	221.1	204.0	171.0
130°	202.6	202.6	214.3	235.6	221.8	217.7	212.9	*219.1*	217.7	206.7	171.0
132.5°	189.5	190.2	207.4	234.9	229.4	210.1	193.0	*196.4*	202.6	205.3	180.6
135°	189.5	187.5	182.0	188.2	184.7	189.5	184.7	*189.5*	190.9	189.5	158.0
137.5°	201.9	200.5	186.8	178.6	179.2	194.3	195.0	*197.1*	195.0	184.0	153.1
140°	197.8	193.0	183.4	179.9	180.6	196.4	202.6	*204.0*	201.9	180.6	144.2
142.5°	190.9	190.9	193.7	197.8	204.0	277.4	258.2	*276.1*	276.8	254.8	148.3
145°	274.0	276.8	268.5	259.6	281.6	333.8	313.8	*333.1*	346.1	322.1	204.6
147.5°	247.2	251.3	246.5	239.0	267.8	268.5	256.2	*258.2*	261.6	267.1	206.7
150°	175.1	170.3	177.9	172.4	201.2	199.8	182.7	*186.8*	194.3	195.0	164.8
152.5°	129.8	127.7	126.4	125.7	144.9	133.2	127.0	*125.0*	126.4	125.7	118.1
155°	114.7	114.7	114.0	117.4	127.7	119.5	113.3	*114.0*	110.6	108.5	104.4
157.5°	89.3	87.2	89.3	95.5	99.6	92.0	90.0	*88.6*	87.9	84.5	85.8
160°	73.5	73.5	74.9	79.7	82.4	76.9	72.8	*71.4*	71.4	70.0	74.9
162.5°	62.5	62.5	63.9	65.2	66.6	63.9	62.5	*62.5*	61.8	61.8	66.6
165°	52.2	52.2	52.9	55.6	56.3	54.9	54.3	*54.9*	54.9	57.7	61.8
167.5°	48.1	48.1	48.8	50.1	50.8	50.1	52.2	*54.3*	56.3	59.1	60.4
170°	46.0	46.0	46.7	47.4	48.8	50.1	54.3	*55.6*	56.3	55.6	55.6
172.5°	47.4	47.4	47.4	48.8	50.1	53.6	57.0	*57.0*	55.6	54.3	54.3
175°	48.1	47.4	48.1	49.4	51.5	53.6	54.9	*56.3*	56.3	55.6	55.6
177.5°	47.4	47.4	48.1	48.8	48.8	48.8	49.4	*50.1*	50.1	50.8	51.5
180°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	*46.7*	46.7	46.7	46.7

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

Scaled Data Report

REPORT NUMBER: P1046589
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4
2.5°	359.2	339.3	251.3	166.9	204.6	298.7	348.2	326.2	243.1	140.1	118.8
5°	147.0	164.8	192.3	184.0	165.5	136.0	102.3	101.6	140.8	171.0	173.7
7.5°	141.5	129.8	122.9	136.0	127.0	87.9	74.2	61.8	65.9	96.8	92.7
10°	174.4	170.3	158.6	129.8	95.5	79.0	74.2	75.5	81.0	72.8	72.1
12.5°	194.3	184.0	158.6	150.4	127.7	90.7	74.9	69.4	74.2	92.7	100.3
15°	212.9	197.8	166.2	139.4	114.7	94.1	80.3	70.0	62.5	54.3	53.6
17.5°	229.4	210.1	175.1	144.9	114.0	94.1	77.6	61.1	52.9	50.1	50.1
20°	249.3	231.4	186.8	151.1	114.7	92.0	74.9	60.4	52.9	50.1	50.1
22.5°	276.1	246.5	199.2	153.8	116.1	91.3	73.5	61.8	54.9	50.8	50.8
25°	283.6	261.0	207.4	162.8	121.6	94.8	76.9	63.9	56.3	52.9	52.2
27.5°	289.1	272.0	223.2	170.3	127.7	101.6	82.4	66.6	57.7	54.3	53.6
30°	310.4	295.3	240.4	181.3	136.0	108.5	87.2	70.7	60.4	54.9	53.6
32.5°	355.7	334.4	265.8	192.3	146.3	116.1	93.4	74.9	63.2	56.3	54.9
35°	442.3	425.1	333.1	215.0	157.3	125.7	101.0	80.3	66.6	58.4	57.7
37.5°	542.5	515.7	404.5	250.0	164.8	133.9	108.5	85.8	70.0	61.8	60.4
40°	559.7	483.5	358.5	228.0	166.2	138.0	115.4	92.0	74.2	64.6	62.5
42.5°	701.9	593.3	415.5	235.6	169.6	138.0	116.7	96.1	78.3	66.6	65.2
45°	742.4	591.3	413.4	263.0	186.1	142.2	117.4	98.2	81.7	70.0	68.0
47.5°	946.3	725.2	419.6	279.5	203.3	156.6	122.2	99.6	82.4	72.1	71.4
50°	1352.9	969.7	504.8	337.2	243.8	182.7	137.3	104.4	83.8	74.2	73.5
52.5°	1670.9	1151.7	541.8	403.8	310.4	232.1	164.1	116.7	86.5	74.9	73.5
55°	1986.1	1373.5	610.5	476.6	369.5	279.5	204.0	136.7	93.4	76.2	74.9
57.5°	2466.8	1648.9	695.7	548.0	438.1	324.1	228.0	154.5	101.6	77.6	75.5
60°	2758.7	1746.4	704.6	584.4	477.3	355.7	236.2	161.4	111.9	83.1	79.7
62.5°	3021.0	1834.3	710.8	600.9	484.2	359.2	236.9	155.9	114.0	91.3	87.2
65°	*3089.0*	*1762.9*	*717.0*	*606.4*	*471.8*	*339.3*	*228.0*	*150.4*	*108.5*	*98.9*	*98.2*
67.5°	2935.1	1580.9	674.4	585.8	438.8	304.9	205.3	142.8	105.8	96.1	98.2
70°	2286.9	1255.4	618.1	539.8	379.1	257.5	182.7	133.2	104.4	91.3	89.3
72.5°	1802.0	1067.9	624.3	514.4	320.0	228.0	161.4	121.6	98.9	89.3	87.9
75°	1403.7	894.8	600.9	443.0	259.6	194.3	141.5	108.5	92.0	85.8	85.2
77.5°	1029.4	710.1	495.8	341.3	214.3	162.1	123.6	99.6	87.2	81.7	81.0
80°	675.1	502.0	345.4	272.6	184.7	146.3	112.6	93.4	83.8	79.0	78.3
82.5°	574.1	445.7	307.0	250.7	171.0	140.8	110.6	91.3	83.1	77.6	76.9
85°	553.5	456.7	313.8	259.6	162.8	134.6	107.1	90.0	81.0	76.2	75.5
87.5°	519.9	413.4	303.5	232.8	150.4	122.9	100.3	86.5	77.6	73.5	72.1
90°	462.9	353.7	261.0	199.8	142.8	115.4	94.8	82.4	75.5	71.4	70.0
92.5°	373.6	268.5	205.3	176.5	139.4	114.7	94.1	82.4	75.5	71.4	70.0
95°	313.8	230.1	184.0	161.4	129.8	108.5	90.0	79.7	73.5	69.4	69.4
97.5°	248.6	192.3	164.1	144.9	116.7	98.9	85.2	76.2	70.7	66.6	66.6
100°	220.4	178.6	155.9	136.0	110.6	93.4	83.1	74.2	69.4	64.6	64.6
102.5°	209.5	173.1	153.8	129.1	105.8	90.0	79.7	71.4	67.3	62.5	62.5
105°	202.6	171.0	152.5	125.7	101.0	85.8	76.2	68.0	64.6	61.1	60.4
107.5°	195.7	168.3	154.5	123.6	96.8	83.1	76.2	67.3	63.2	60.4	60.4
110°	192.3	169.6	153.8	121.6	95.5	82.4	75.5	68.0	64.6	61.8	61.1

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

Scaled Data Report

REPORT NUMBER: P1046589
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	183.4	162.1	147.0	115.4	93.4	80.3	72.8	67.3	62.5	59.7	59.1
115°	174.4	149.0	134.6	109.9	88.6	77.6	70.7	65.2	60.4	58.4	58.4
117.5°	177.9	145.6	123.6	107.8	87.2	75.5	69.4	63.9	59.7	58.4	57.7
120°	175.8	153.1	138.7	115.4	86.5	73.5	68.0	62.5	59.1	58.4	58.4
122.5°	168.3	165.5	152.5	117.4	83.8	74.2	69.4	64.6	61.1	59.1	59.1
125°	162.1	160.7	142.2	105.8	85.8	76.9	72.8	68.0	65.9	63.9	63.2
127.5°	149.7	134.6	118.1	101.6	87.2	78.3	74.2	71.4	69.4	65.9	65.2
130°	150.4	138.0	121.6	102.3	83.8	76.9	74.9	72.1	68.7	63.2	62.5
132.5°	163.4	150.4	120.9	94.8	80.3	76.9	75.5	72.1	64.6	58.4	57.7
135°	136.0	127.0	107.1	90.7	81.7	79.7	79.0	71.4	60.4	56.3	55.6
137.5°	132.5	119.5	103.0	91.3	85.2	81.0	78.3	68.7	56.3	52.2	50.8
140°	125.0	112.6	101.0	92.7	82.4	68.7	62.5	57.7	52.2	48.8	48.1
142.5°	125.0	113.3	95.5	81.7	71.4	63.9	60.4	56.3	50.1	45.3	44.0
145°	147.7	133.9	115.4	103.7	92.7	81.0	69.4	57.0	46.7	40.5	39.8
147.5°	167.6	151.1	136.7	117.4	99.6	80.3	63.9	50.1	42.6	39.8	39.8
150°	137.3	122.2	114.7	98.2	82.4	65.9	54.3	46.7	42.6	41.2	41.2
152.5°	103.0	86.5	81.0	72.1	62.5	54.3	48.8	44.6	43.3	42.6	42.6
155°	96.1	82.4	75.5	67.3	57.7	50.8	47.4	45.3	44.0	43.3	43.3
157.5°	83.8	76.2	67.3	61.1	54.3	49.4	47.4	46.0	44.6	44.0	44.0
160°	74.9	69.4	61.1	56.3	51.5	49.4	49.4	48.8	46.7	46.0	46.0
162.5°	67.3	65.2	57.7	53.6	51.5	52.2	55.6	54.9	51.5	48.8	48.1
165°	62.5	60.4	54.9	52.9	51.5	54.3	61.1	59.7	54.3	50.8	50.8
167.5°	59.7	58.4	54.3	52.2	52.9	58.4	64.6	65.2	60.4	55.6	54.9
170°	54.9	54.9	54.3	54.9	54.9	57.7	61.1	63.2	63.2	64.6	63.9
172.5°	54.3	54.9	57.0	57.0	56.3	57.0	59.7	63.2	65.2	67.3	68.0
175°	55.6	56.3	57.7	58.4	58.4	59.7	63.9	66.6	68.0	67.3	67.3
177.5°	51.5	52.2	52.9	55.6	57.0	58.4	62.5	63.9	65.2	66.6	66.6
180°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7

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

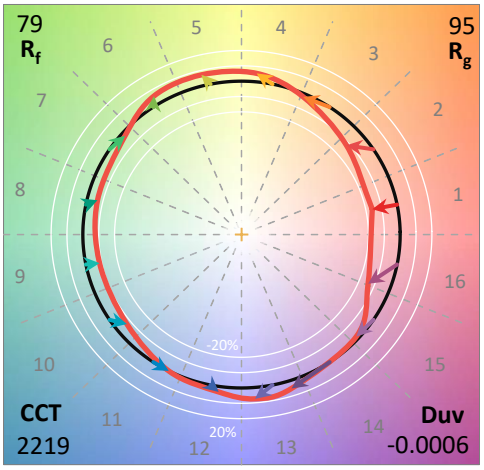
Test Information

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

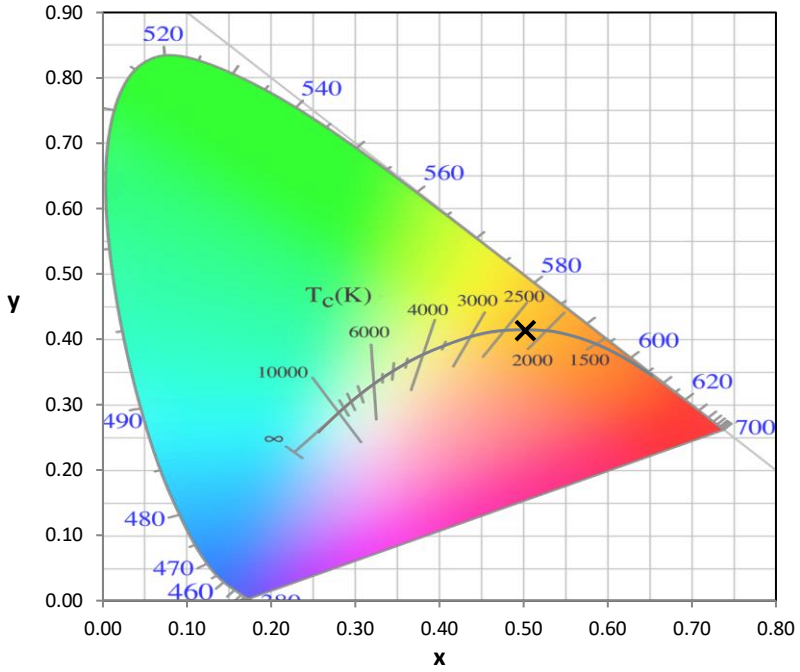
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

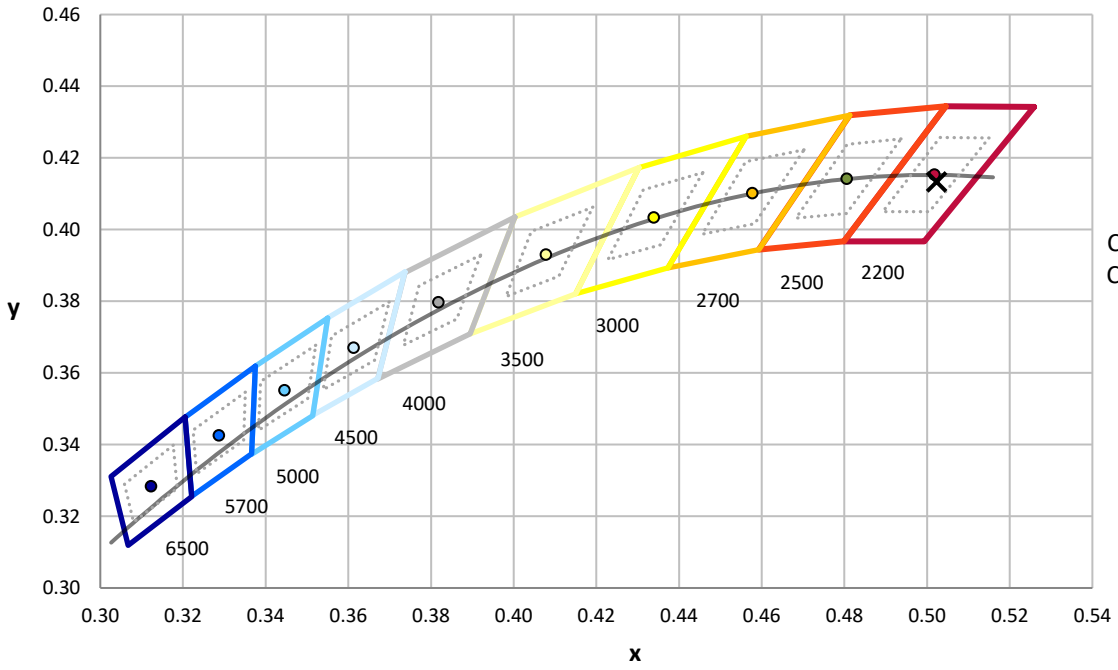
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

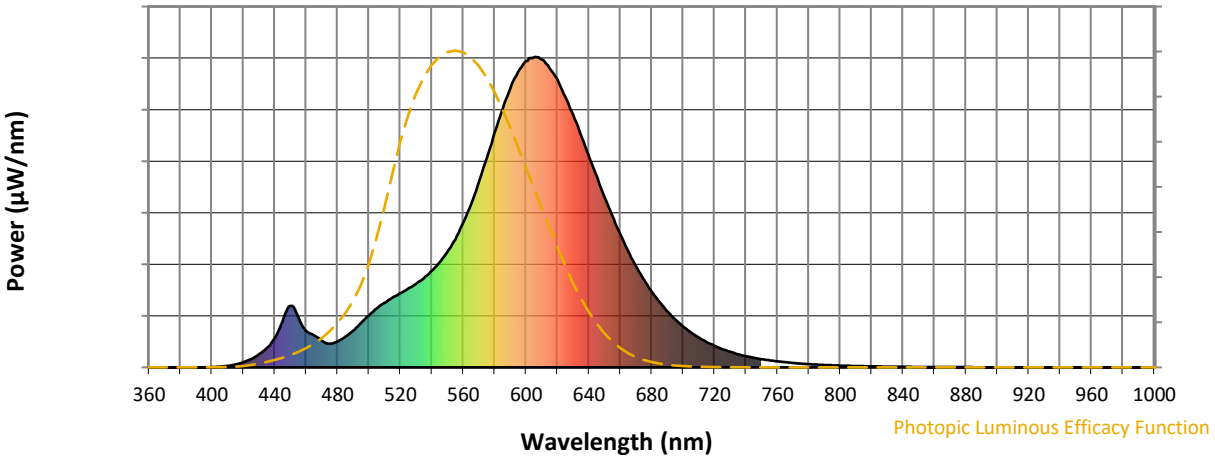


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

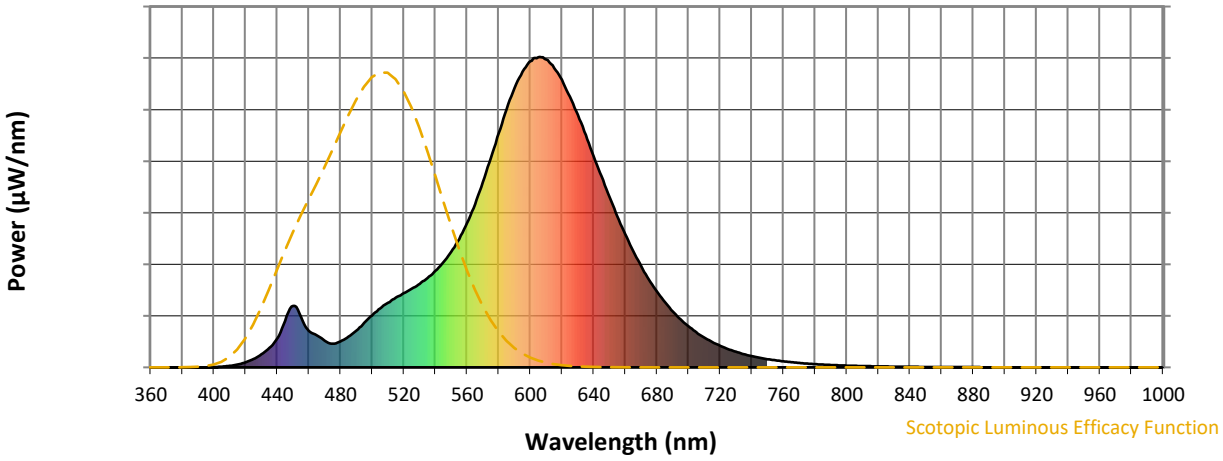


Photopic Lumens: NR

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

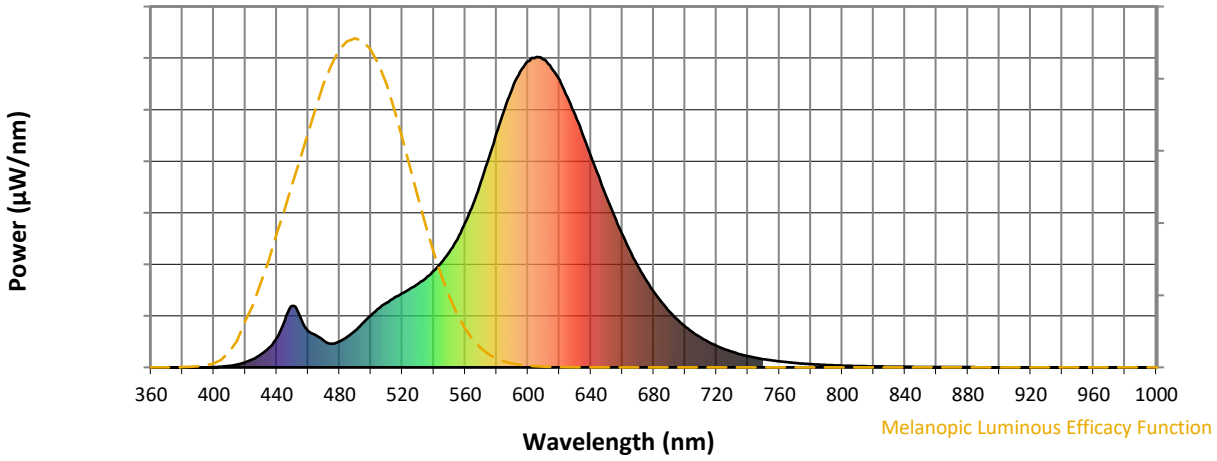


Scotopic Lumens: NR **S/P: 0.94**

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			

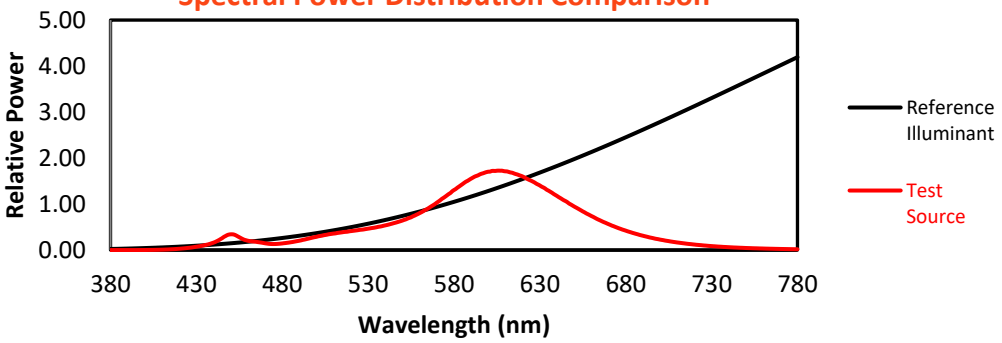
REPORT NUMBER: SP1-2501-332-2

TM-30-18

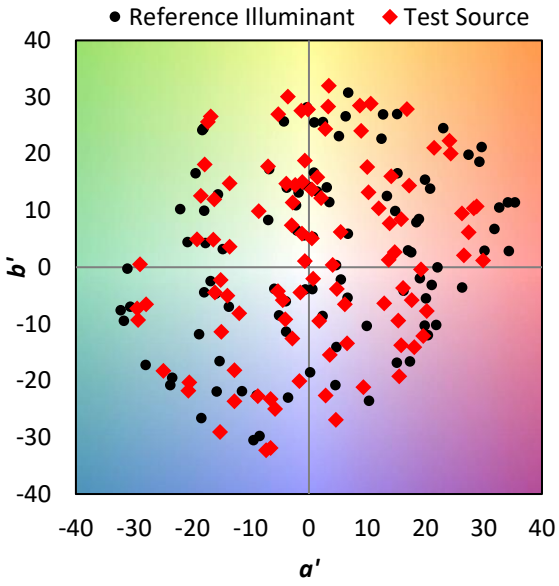
Summary

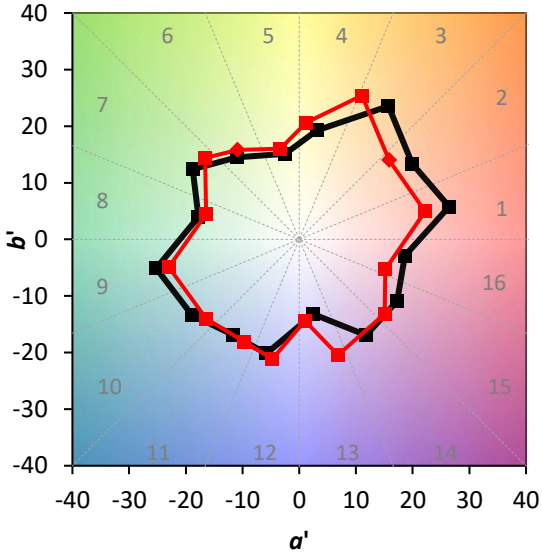
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

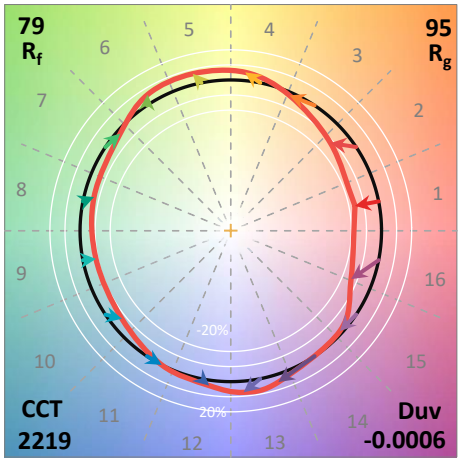
Spectral Power Distribution Comparison

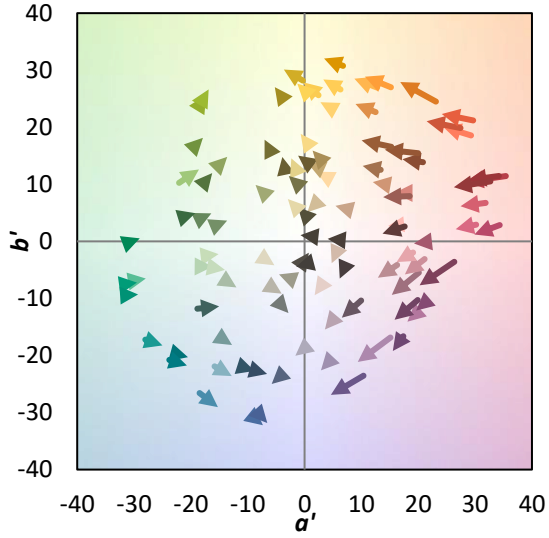


Color Vector Graphics







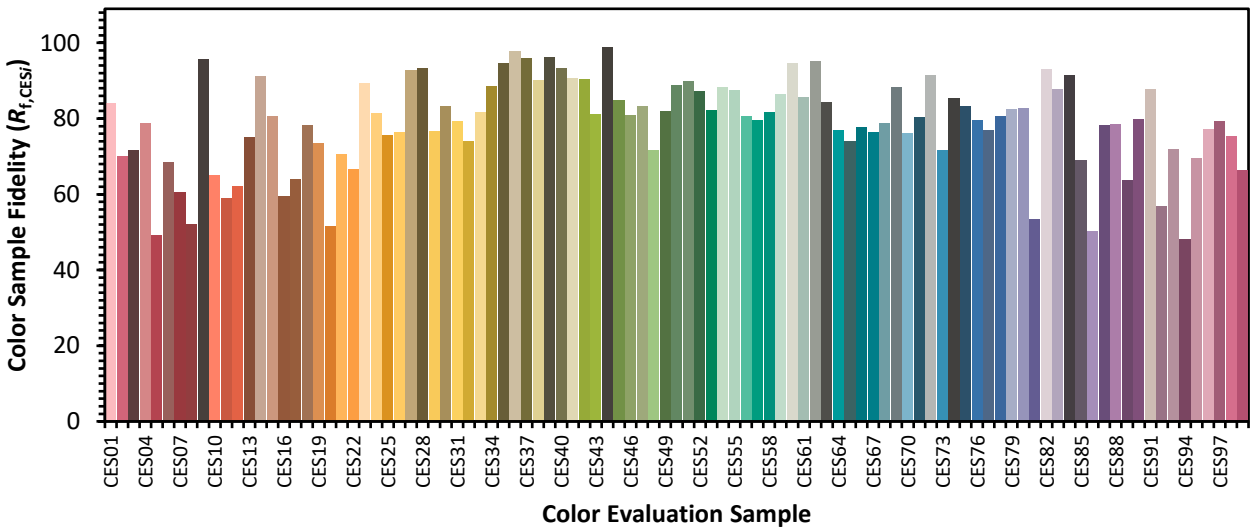


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

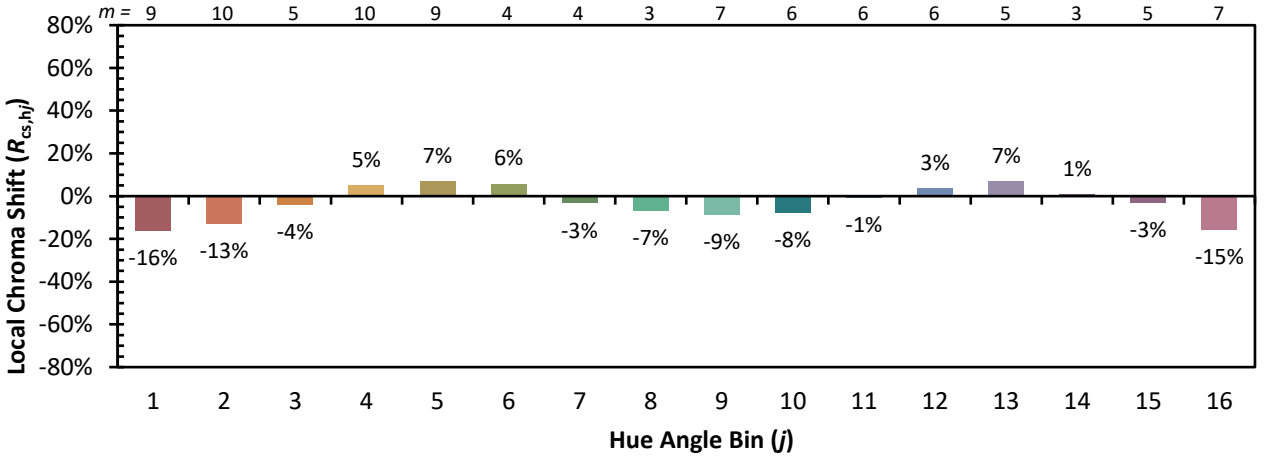
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 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	

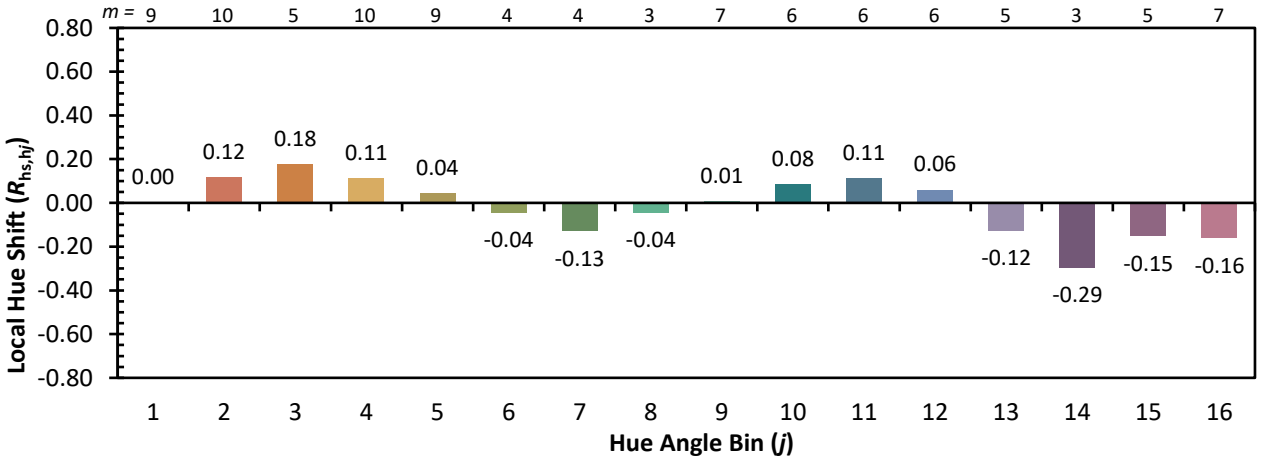


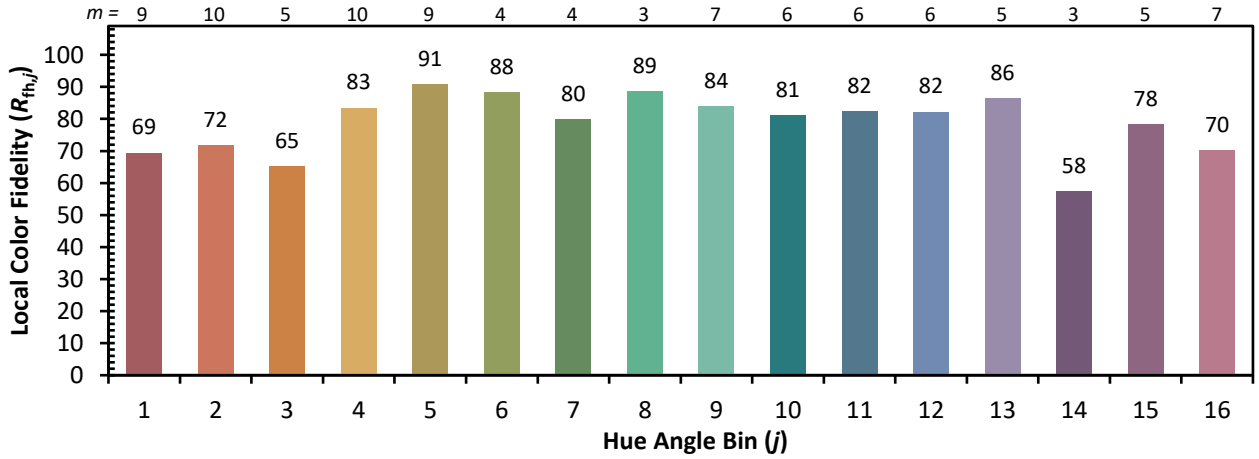
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



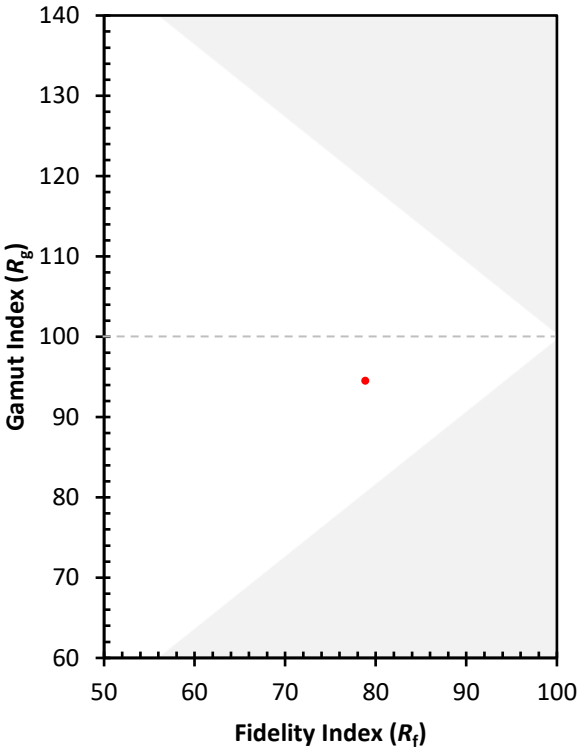


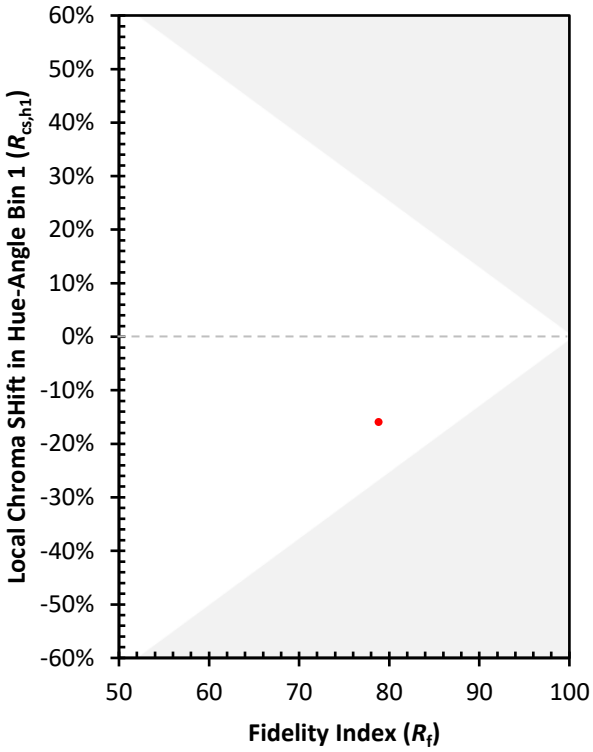


REPORT NUMBER: SP1-2501-332-2

TM-30-18

Measure Comparisons





(END OF REPORT)