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: P1223929

Luminaire Tested: **FFX-CLB-40-722-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:	P1223929
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4673.8 lumens
Efficiency:	N/A
Efficacy:	118.6 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):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

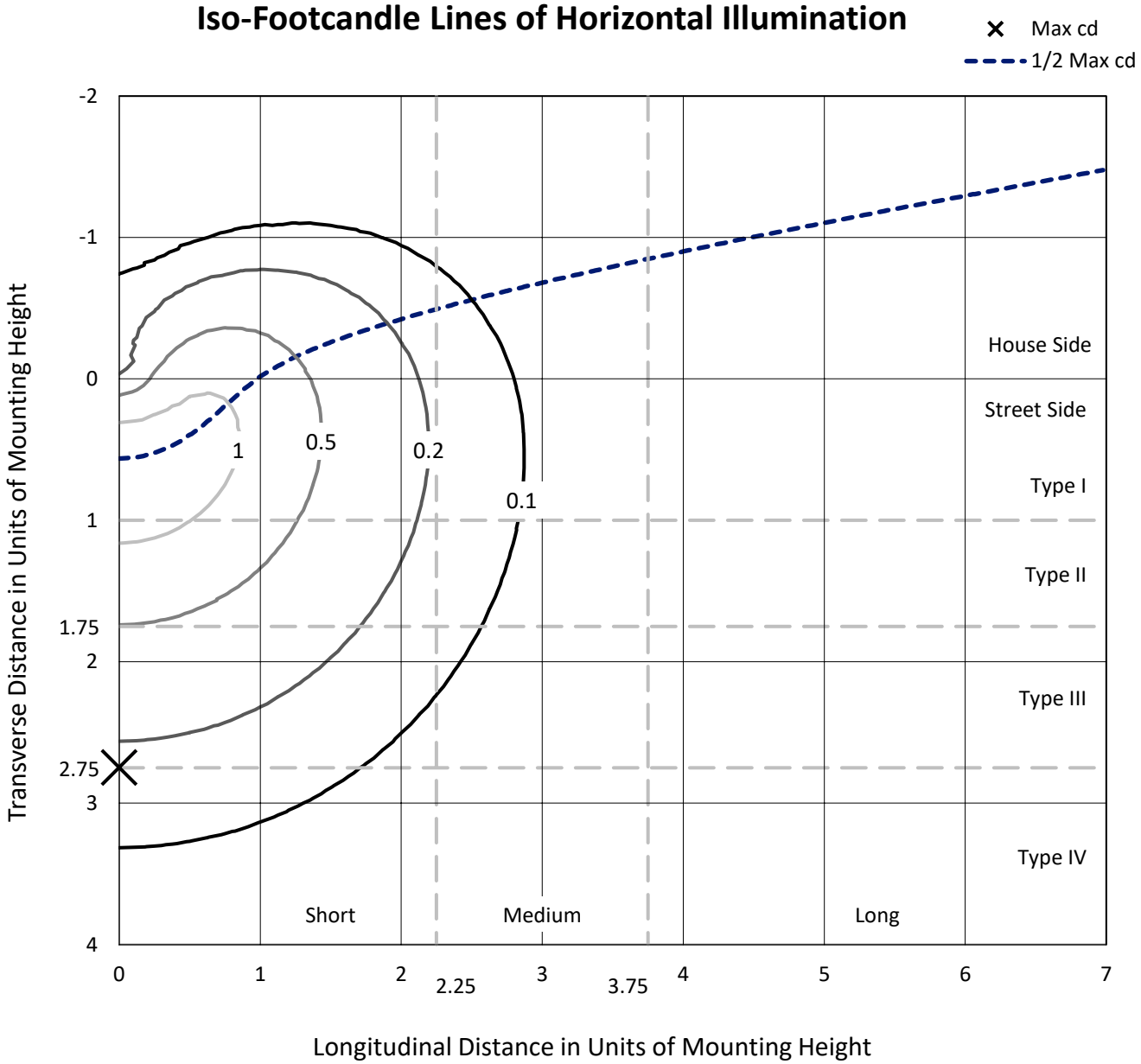


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1223929
CATALOG NUMBER: FFX-CLB-40-722-U-VM9-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



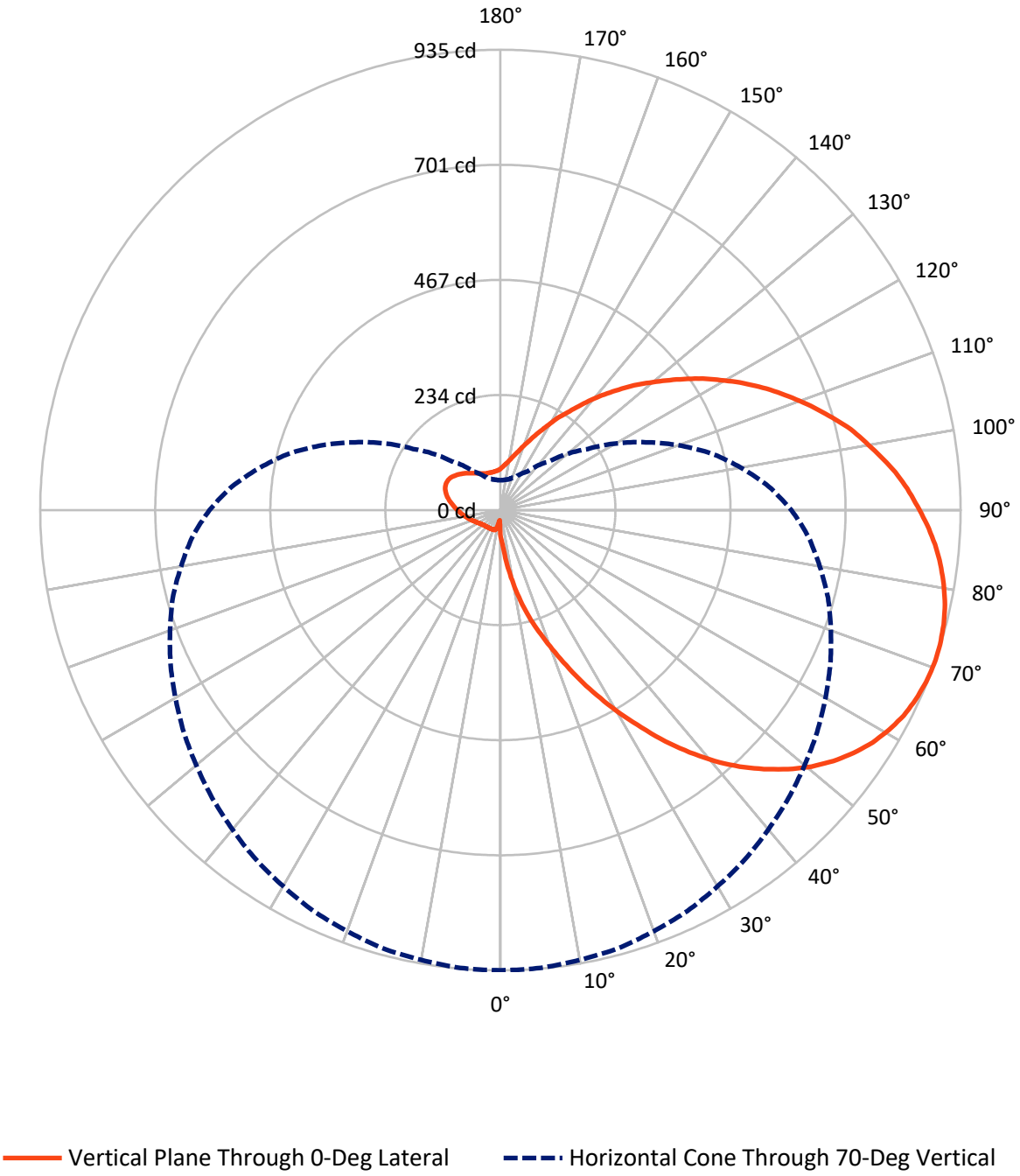
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1223929
CATALOG NUMBER: FFX-CLB-40-722-U-VM9-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

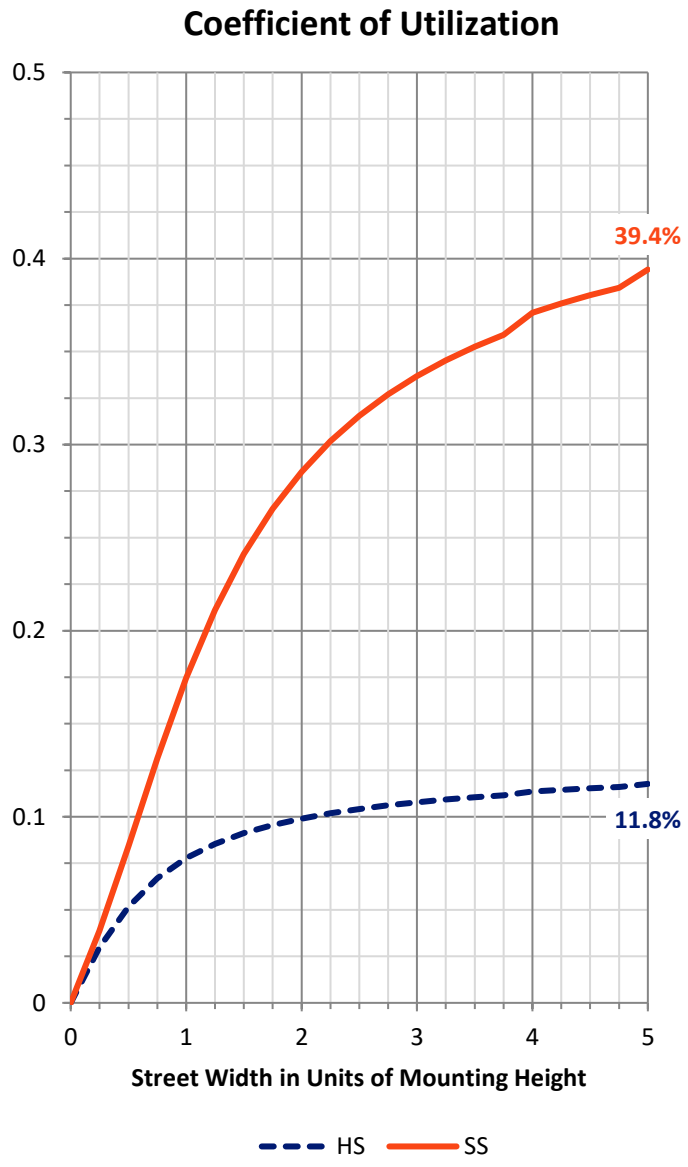
REPORT NUMBER: P1223929
CATALOG NUMBER: FFX-CLB-40-722-U-VM9-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.3	578.2	1177.5
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	2105.1	1391.2	3496.3
	% Fixture	45.0	29.8	74.8
Total	Lumens	2704.4	1969.4	4673.8
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.2
10°-20°	40.9	0.9
20°-30°	107.5	2.3
30°-40°	208.8	4.5
40°-50°	325.4	7.0
50°-60°	429.3	9.2
60°-70°	504.1	10.8
70°-80°	542.3	11.6
80°-90°	539.2	11.5
90°-100°	501.3	10.7
100°-110°	440.2	9.4
110°-120°	362.0	7.7
120°-130°	272.5	5.8
130°-140°	184.7	4.0
140°-150°	111.8	2.4
150°-160°	60.2	1.3
160°-170°	28.3	0.6
170°-180°	8.2	0.2
0°-90°	2704.4	57.9
0°-180°	4673.8	100.0



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

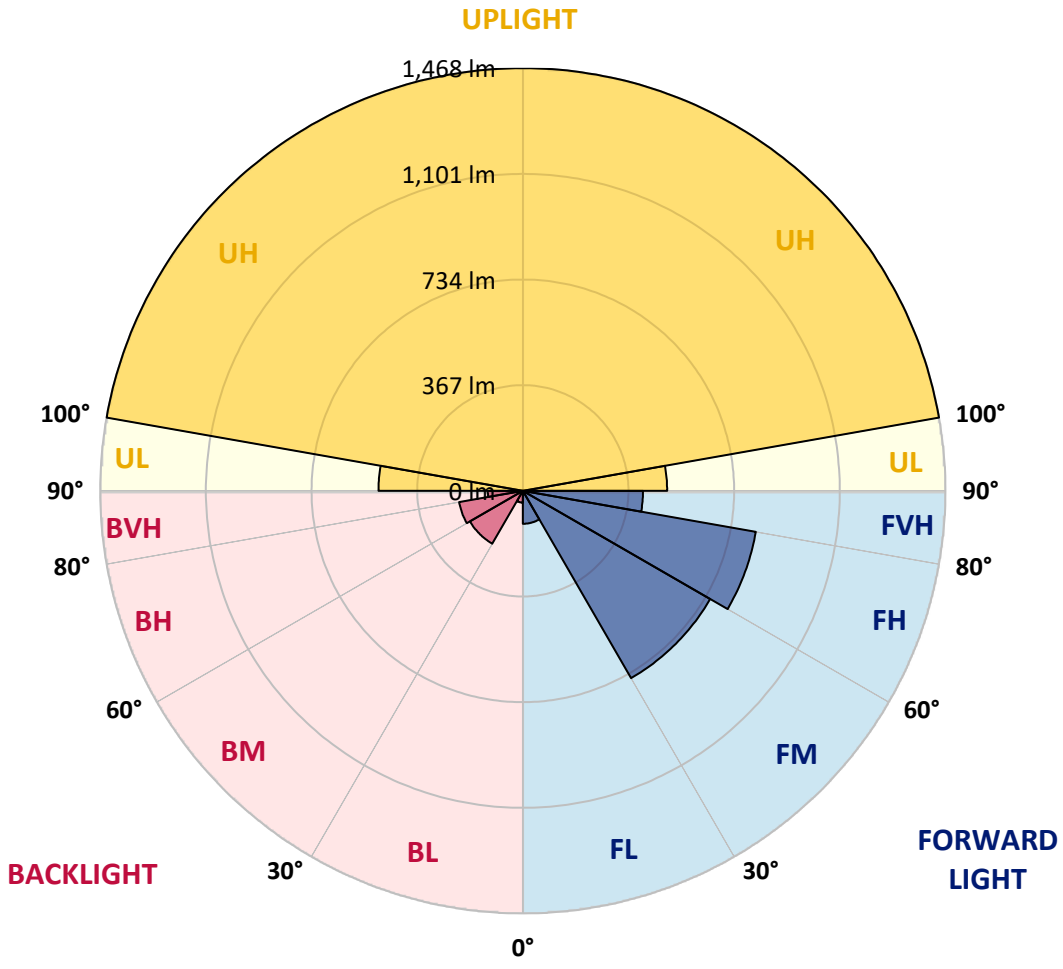
Scaled Data Report

REPORT NUMBER: P1223929
CATALOG NUMBER: FFX-CLB-40-722-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°)	114.5	2.4			
FM	(30°-60°)	751.4	16.1			
FH	(60°-80°)	821.8	17.6			G1/1800
FVH	(80°-90°)	417.5	8.9			G3/500
BL	(0°-30°)	40.9	0.9	B0/110		
BM	(30°-60°)	212.1	4.5	B0/220		
BH	(60°-80°)	224.6	4.8	B1/500		G1/500
BVH	(80°-90°)	121.7	2.6			G2/225
UL	(90°-100°)	501.3	10.7		U4/1000	
UH	(100°-180°)	1468.0	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: P1223929
CATALOG NUMBER: FFX-CLB-40-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	65.1	65.5	65.1	65.1	65.8	65.1	64.4	62.0	59.3	55.9	54.1
5°	91.2	91.2	92.9	92.9	91.2	87.4	82.9	76.8	71.3	65.5	61.3
7.5°	124.4	125.1	123.7	120.3	118.2	110.7	106.2	98.4	91.5	83.6	79.9
10°	159.0	159.4	157.6	154.6	148.1	140.5	134.0	124.7	115.8	105.6	100.1
12.5°	196.0	195.3	192.3	185.4	181.6	173.1	164.5	154.9	142.9	130.2	123.7
15°	231.3	230.0	228.6	221.4	216.3	207.7	197.7	184.7	170.7	156.6	147.0
17.5°	265.3	262.2	260.1	256.7	248.8	241.3	228.6	213.2	198.1	179.6	169.6
20°	301.6	302.3	298.8	294.0	285.5	274.5	262.2	245.7	226.9	204.9	192.9
22.5°	342.4	342.4	340.3	334.1	325.2	311.2	296.8	279.7	256.3	233.4	218.7
25°	387.6	385.2	382.5	374.6	367.0	352.0	334.8	316.3	292.0	264.2	247.8
27.5°	432.5	431.5	428.7	420.2	410.6	394.8	377.7	353.7	327.3	294.7	277.6
30°	480.1	479.1	476.4	468.1	454.1	438.7	418.1	392.4	363.6	326.9	308.1
32.5°	526.1	526.1	522.6	514.1	499.3	480.8	458.9	430.1	398.2	360.5	337.9
35°	577.1	576.8	570.6	560.3	542.5	526.4	501.7	471.6	435.6	392.4	368.4
37.5°	624.1	622.4	616.2	605.2	588.8	567.9	540.1	506.9	469.9	423.9	396.9
40°	670.3	668.3	662.8	650.5	630.6	606.9	578.5	542.9	501.0	453.4	425.3
42.5°	712.2	711.5	703.6	688.9	669.0	642.2	611.7	574.0	532.2	480.8	451.0
45°	750.2	750.2	742.3	726.2	703.6	676.5	642.9	604.2	559.6	505.8	474.3
47.5°	786.2	786.2	778.6	760.1	735.1	705.3	671.0	630.9	583.6	528.5	494.9
50°	818.7	817.4	808.8	788.2	762.9	731.7	695.7	653.6	605.9	548.7	514.8
52.5°	846.8	845.1	835.2	816.0	787.6	754.3	716.6	673.8	624.1	566.2	531.5
55°	870.5	869.5	859.9	837.9	808.1	774.9	734.8	690.2	641.2	580.9	545.9
57.5°	891.1	889.3	878.0	855.8	825.9	789.6	749.2	705.0	654.2	594.3	557.9
60°	906.5	904.8	893.1	870.8	840.7	802.3	761.8	717.0	665.5	604.9	567.9
62.5°	919.2	917.1	905.8	882.1	850.6	812.9	771.4	725.9	674.5	613.5	576.4
65°	927.0	925.3	914.4	890.7	858.2	820.1	778.6	732.7	681.7	620.0	583.0
67.5°	932.2	930.8	919.5	896.5	864.0	825.3	783.1	737.2	686.5	624.8	587.8
70°	934.6	933.2	921.6	898.2	866.0	827.3	785.2	739.2	688.9	628.2	590.8
71°	934.6	933.2	921.9	898.6	866.4	827.7	785.5	739.6	689.2	628.5	591.2
72.5°	933.5	932.5	921.2	897.6	865.3	827.0	784.5	739.2	689.2	628.9	591.9
75°	929.8	927.7	916.8	893.8	861.9	823.5	781.4	736.1	687.1	627.8	591.2
77.5°	922.9	921.2	909.9	887.6	855.8	817.0	775.2	731.0	683.0	624.4	588.4
80°	913.0	911.3	900.3	877.3	845.8	808.5	766.6	723.1	675.8	618.9	583.6
82.5°	900.3	898.9	888.3	865.3	834.2	797.1	755.3	712.8	667.9	611.4	576.8
85°	885.2	883.5	871.9	849.2	819.4	782.4	741.6	700.5	656.6	602.1	568.6
87.5°	867.1	866.0	854.4	832.8	803.0	766.3	727.2	687.1	644.0	591.9	559.3
90°	847.2	846.8	834.5	812.9	783.4	748.8	710.1	671.0	629.2	579.5	548.0
92.5°	827.3	827.3	815.0	792.7	763.6	729.3	692.6	654.9	615.2	567.2	537.0
95°	805.4	803.0	791.3	771.4	742.3	709.4	674.1	637.1	598.7	553.1	524.7
97.5°	779.7	779.0	767.7	746.4	719.7	688.2	653.9	619.6	582.6	538.7	511.7
100°	754.7	753.3	742.7	723.1	695.7	665.5	633.3	600.4	565.5	524.0	498.0
102.5°	730.0	726.6	715.6	695.7	671.7	642.2	612.1	581.9	547.7	508.2	483.9
105°	700.2	699.8	688.5	669.7	645.3	619.3	590.8	561.4	530.2	492.1	469.5
107.5°	671.0	671.0	660.4	641.9	618.9	593.9	568.6	540.8	512.0	475.3	454.8

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

Scaled Data Report

REPORT NUMBER: P1223929
CATALOG NUMBER: FFX-CLB-40-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*641.2*	640.9	631.3	614.8	592.9	568.9	545.6	520.2	491.4	459.2	439.0
112.5°	*611.7*	611.1	601.8	585.0	564.8	545.3	522.0	498.6	472.3	442.4	423.2
115°	*581.9*	581.2	571.3	556.6	538.1	517.8	498.3	476.0	453.1	423.2	406.5
117.5°	*551.1*	550.4	542.2	527.8	510.3	494.2	474.7	455.5	432.2	405.1	388.3
120°	*519.6*	519.9	511.7	498.6	482.5	467.5	450.3	432.8	411.3	385.6	369.4
122.5°	*489.7*	487.3	481.9	470.2	455.8	441.8	427.4	409.5	389.3	365.0	350.9
125°	*457.9*	457.2	451.7	440.0	427.7	416.7	403.4	387.3	368.8	344.1	331.4
127.5°	*427.0*	428.0	421.9	413.3	401.3	392.1	378.4	364.3	346.5	324.2	312.2
130°	*398.2*	397.5	394.1	385.2	375.3	365.7	355.4	342.7	325.9	303.6	292.7
132.5°	*371.5*	368.4	365.3	357.8	349.6	341.7	332.8	320.1	303.0	283.4	273.8
135°	*342.4*	342.4	337.6	331.1	325.2	317.7	308.8	297.1	282.4	265.3	254.3
137.5°	*315.6*	314.3	311.2	306.0	300.6	295.1	287.5	275.9	262.9	246.4	236.8
140°	*290.3*	289.2	286.5	282.1	277.6	272.5	265.6	255.7	243.7	227.9	219.7
142.5°	*263.9*	264.6	262.2	259.1	253.9	250.5	244.4	235.4	224.8	211.1	203.2
145°	*240.2*	240.6	239.6	236.5	232.7	229.3	222.8	216.3	206.0	193.6	187.8
147.5°	*220.7*	219.3	217.3	215.6	212.1	209.4	204.3	198.1	188.5	177.9	172.4
150°	*198.8*	199.8	197.7	195.7	193.6	189.9	186.1	181.0	172.0	163.5	157.6
152.5°	*180.3*	181.0	179.2	178.2	176.2	173.1	169.3	164.5	157.6	150.1	144.6
155°	*163.8*	163.8	163.8	162.4	160.0	158.0	154.2	149.8	143.9	137.1	133.3
157.5°	*148.7*	149.1	149.1	147.4	145.7	143.9	140.9	137.1	131.9	126.1	123.4
160°	*136.7*	136.1	135.7	134.3	133.0	131.6	128.9	125.8	121.3	116.5	114.1
162.5°	*124.7*	124.7	124.1	123.0	122.0	119.9	118.2	115.2	112.1	108.6	105.9
165°	*115.5*	115.2	115.2	113.8	112.8	111.0	109.3	107.3	104.5	101.4	99.4
167.5°	*107.6*	106.9	106.6	105.9	104.5	103.5	101.8	100.1	98.0	96.0	94.2
170°	*100.1*	100.4	99.7	99.0	98.4	97.3	96.0	94.6	92.9	90.8	90.1
172.5°	*94.9*	94.6	94.2	93.6	92.9	91.8	91.2	89.8	88.8	87.4	86.7
175°	*90.1*	90.1	89.8	89.1	88.4	87.7	87.0	86.4	85.7	84.6	84.3
177.5°	*86.4*	86.4	86.4	85.7	85.3	85.0	84.3	84.0	83.6	82.9	82.9
180°	*82.6*	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6

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

Scaled Data Report

REPORT NUMBER: P1223929
CATALOG NUMBER: FFX-CLB-40-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	52.4	48.0	44.2	40.8	38.0	35.6	34.3	31.9	30.2	29.1
5°	58.9	52.4	47.0	41.5	37.4	32.9	28.4	24.0	21.2	20.9
7.5°	74.7	67.5	59.3	52.1	43.9	37.0	31.2	26.7	25.0	24.7
10°	94.6	84.0	73.0	62.4	51.7	43.2	37.0	32.9	30.8	30.5
12.5°	116.5	102.1	88.1	74.4	61.7	52.1	44.6	39.8	37.4	37.4
15°	139.1	121.3	103.5	86.7	72.0	60.0	50.7	44.6	41.8	41.5
17.5°	159.0	138.8	117.6	97.7	79.9	64.8	53.8	46.3	42.8	42.5
20°	181.6	155.9	131.6	106.9	86.0	68.5	55.5	47.0	42.5	42.2
22.5°	205.6	176.5	146.3	117.6	92.5	72.3	57.2	47.6	42.8	42.2
25°	232.7	197.7	161.4	128.2	99.0	75.7	58.9	48.3	43.2	42.5
27.5°	258.4	219.7	177.5	138.1	104.9	78.8	60.3	49.0	43.5	42.8
30°	285.8	241.3	193.3	148.7	111.0	81.9	61.7	49.4	43.5	42.8
32.5°	313.6	262.2	209.7	158.3	116.2	84.0	62.4	49.7	43.9	43.2
35°	343.1	284.8	225.2	168.3	121.0	86.0	63.1	50.0	43.9	43.2
37.5°	370.1	306.4	240.2	176.8	125.1	87.7	63.7	50.0	44.2	43.5
40°	394.5	325.9	253.6	184.4	128.5	88.8	64.1	50.4	44.6	43.9
42.5°	418.5	345.1	265.6	190.5	131.3	89.4	64.4	50.7	44.9	44.2
45°	439.7	361.2	276.6	196.4	133.3	90.1	64.8	51.1	45.2	44.6
47.5°	458.5	376.3	286.9	201.2	134.7	90.5	65.1	51.4	45.9	45.2
50°	476.7	390.7	294.7	204.9	136.1	90.8	65.1	52.1	47.0	46.3
52.5°	492.1	402.3	301.9	208.0	136.7	91.2	65.8	52.8	47.6	47.3
55°	505.5	412.6	308.4	210.4	137.4	91.2	66.5	53.8	49.0	48.3
57.5°	516.5	420.9	312.9	211.8	137.4	91.5	66.8	55.2	50.4	49.7
60°	526.1	428.0	317.0	213.5	137.8	91.8	67.9	56.5	52.1	51.7
62.5°	533.9	433.5	320.1	214.5	138.1	92.9	69.2	58.3	53.8	53.5
65°	540.1	438.3	322.5	215.2	138.5	93.6	70.6	60.0	56.2	55.9
67.5°	544.2	441.8	324.2	215.6	138.8	94.6	72.3	62.4	58.6	57.9
70°	*547.3*	*443.8*	*325.2*	*215.9*	*139.5*	*95.6*	*74.4*	*64.4*	*61.0*	*60.7*
71°	548.0	444.2	325.6	215.9	139.8	96.3	75.1	65.5	62.0	61.7
72.5°	548.3	444.5	325.6	215.9	140.2	97.3	76.4	67.2	63.7	63.4
75°	548.0	444.2	325.2	215.9	140.9	99.0	78.8	69.6	66.5	66.1
77.5°	545.6	442.8	324.2	215.9	141.9	101.1	81.6	73.0	69.6	69.2
80°	541.5	440.0	322.5	215.6	142.9	103.5	84.3	76.1	72.7	72.3
82.5°	536.0	435.9	320.1	215.6	144.3	105.6	87.0	78.8	76.1	75.7
85°	528.8	431.1	317.7	215.2	146.0	108.3	90.5	82.6	79.9	79.2
87.5°	520.2	425.3	315.0	215.2	147.7	111.4	93.9	86.0	83.3	82.6
90°	510.6	418.8	312.2	215.2	149.8	114.5	97.7	89.8	86.7	86.4
92.5°	501.0	412.6	309.5	215.6	152.5	117.9	101.4	93.9	90.8	90.8
95°	490.1	405.1	306.4	216.3	155.2	121.7	105.9	98.0	94.9	94.6
97.5°	479.1	398.2	304.0	217.3	158.3	126.1	110.0	102.5	99.4	98.7
100°	466.8	391.0	301.6	218.7	162.1	130.2	114.5	106.9	103.8	103.5
102.5°	454.8	383.2	298.8	220.4	165.9	135.0	119.3	111.4	108.3	108.0
105°	441.8	374.9	295.8	221.7	169.6	139.5	123.7	115.5	112.1	112.1
107.5°	429.1	366.4	292.7	223.4	173.4	143.9	127.8	119.6	115.8	115.5

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

Scaled Data Report

REPORT NUMBER: P1223929
CATALOG NUMBER: FFX-CLB-40-722-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	414.7	357.1	288.9	224.5	176.8	147.7	131.6	122.7	118.9	118.6
112.5°	401.7	347.2	284.8	224.8	179.9	151.1	134.7	125.4	121.7	121.0
115°	385.2	336.9	279.3	224.1	181.6	153.9	136.7	127.1	123.0	122.3
117.5°	369.4	325.2	273.5	222.4	182.7	155.2	138.1	128.2	123.7	123.0
120°	353.3	312.2	265.3	219.3	181.6	155.2	138.1	127.5	123.0	122.7
122.5°	335.2	298.5	256.7	214.9	179.9	153.9	136.7	126.5	121.7	121.3
125°	316.3	283.8	246.4	208.7	176.5	151.8	134.7	124.4	119.6	119.3
127.5°	298.2	268.7	235.8	201.5	171.7	148.4	131.9	121.3	116.5	115.8
130°	280.3	252.9	223.8	192.9	165.9	143.9	128.2	118.2	113.4	112.8
132.5°	261.8	237.8	211.8	184.7	159.7	139.1	124.1	114.5	110.0	109.3
135°	244.4	222.1	198.8	174.8	152.5	133.7	119.6	110.7	106.2	105.9
137.5°	227.6	207.3	186.8	165.2	145.3	128.2	115.2	106.9	102.8	102.1
140°	210.4	192.9	174.4	155.9	137.4	122.3	110.7	102.8	99.0	98.4
142.5°	195.7	179.2	162.8	145.7	129.9	116.2	105.9	98.7	95.6	95.3
145°	180.3	165.9	151.1	136.4	122.7	110.7	101.4	95.3	92.2	91.8
147.5°	166.6	152.8	140.2	127.5	115.5	104.9	97.0	91.8	89.4	89.1
150°	152.5	141.5	130.6	118.9	108.6	99.7	93.2	88.8	86.4	86.0
152.5°	140.2	130.9	121.0	112.1	102.5	95.3	89.8	85.7	84.0	83.6
155°	129.5	121.7	113.4	105.2	97.7	91.8	87.0	83.6	82.3	82.3
157.5°	120.3	113.4	106.6	99.7	93.6	88.4	84.6	82.3	80.9	80.5
160°	111.4	105.9	99.7	94.6	89.8	86.0	82.9	80.9	79.9	79.5
162.5°	104.2	99.4	95.3	90.8	87.0	84.0	81.6	79.9	79.2	79.2
165°	98.0	94.6	90.8	87.7	84.6	82.3	80.5	79.5	78.8	78.8
167.5°	93.2	90.1	87.7	85.0	82.9	81.2	79.9	79.2	78.8	78.5
170°	89.1	87.0	85.0	83.3	81.6	80.5	79.5	79.2	78.8	78.8
172.5°	86.0	84.6	83.3	81.9	80.9	79.9	79.5	79.2	79.2	79.2
175°	83.6	82.9	81.9	81.2	80.5	80.2	79.9	79.9	79.9	79.9
177.5°	82.6	81.9	81.6	81.2	80.9	80.9	80.9	81.2	81.2	81.2
180°	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6

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

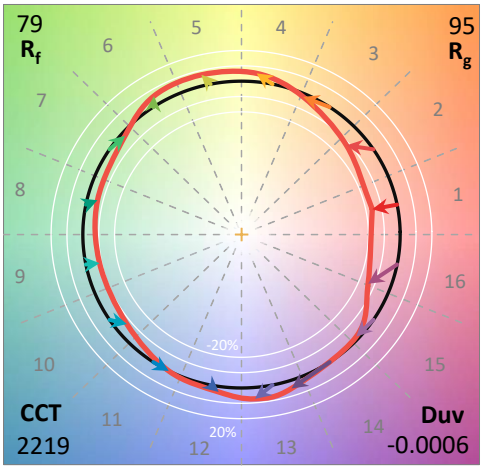
Test Information

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

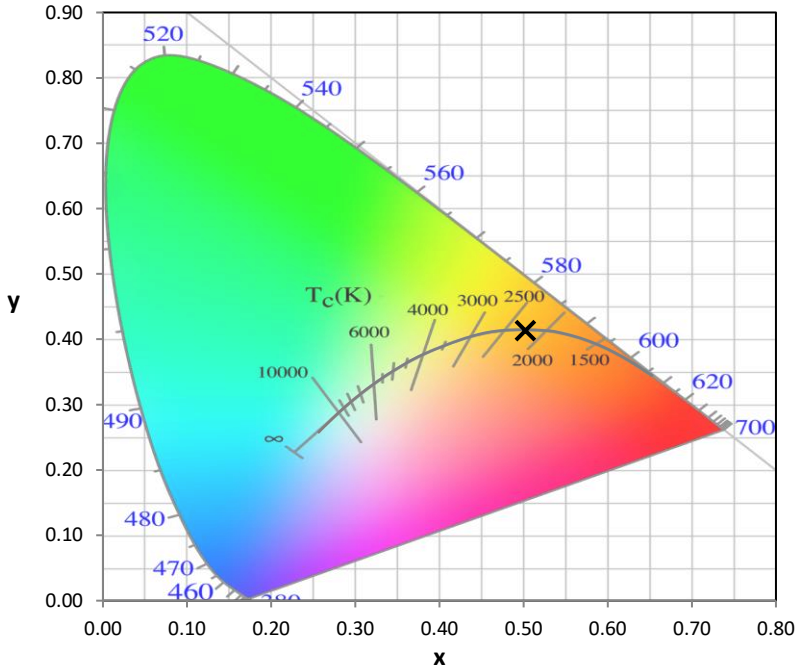
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

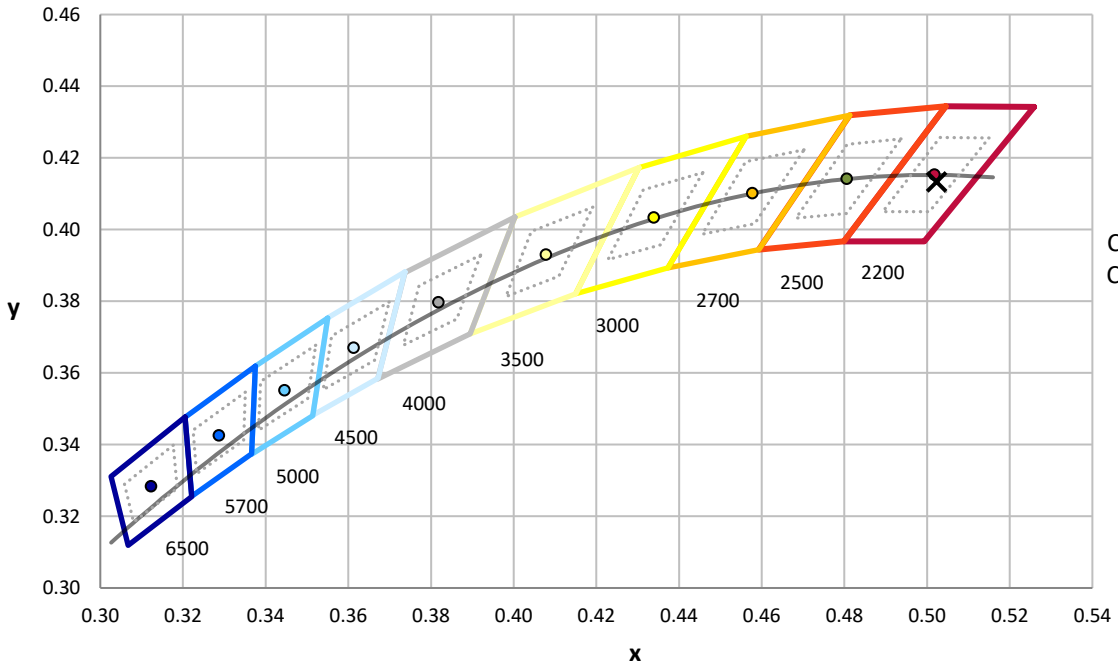
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

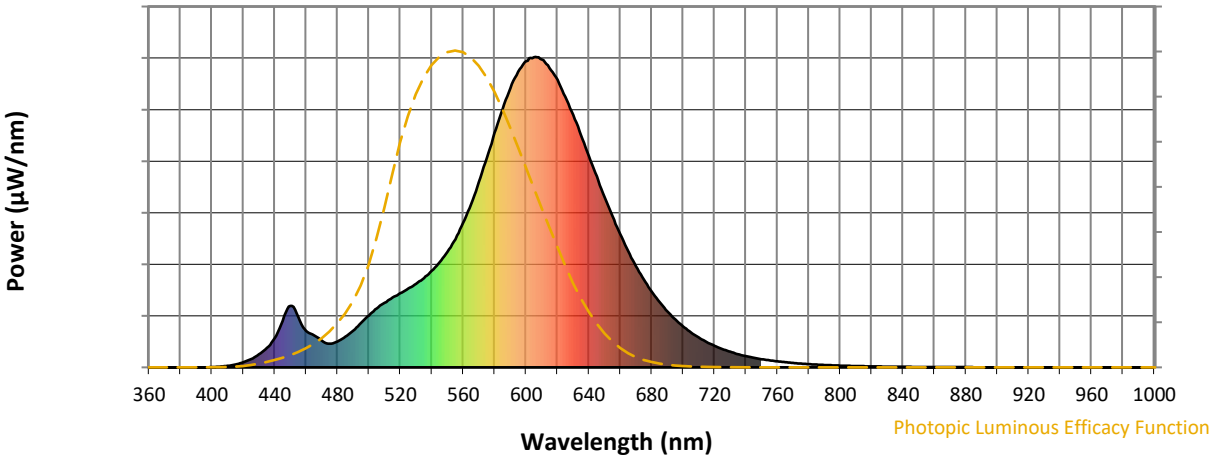


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

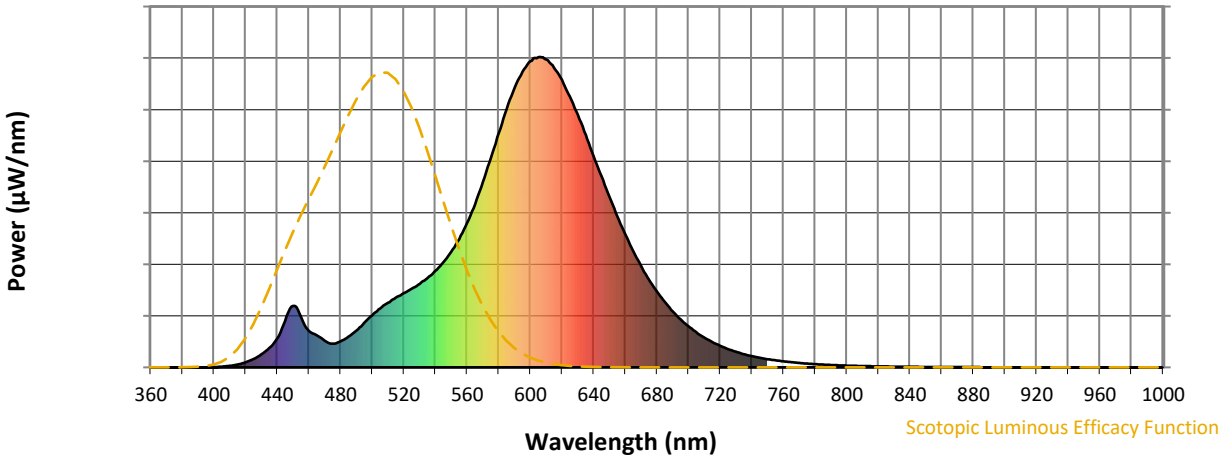


Photopic Lumens: NR

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

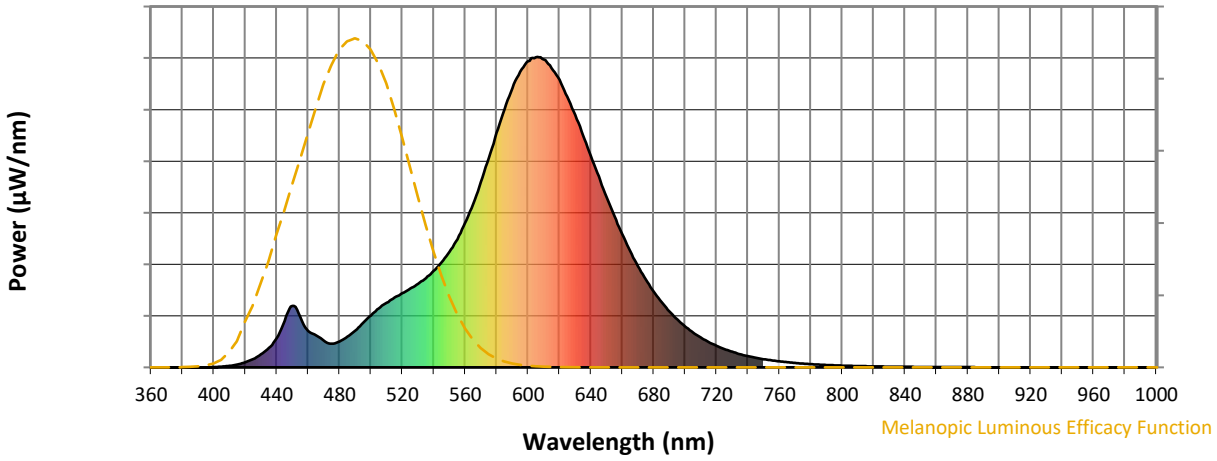


Scotopic Lumens: NR **S/P: 0.94**

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			

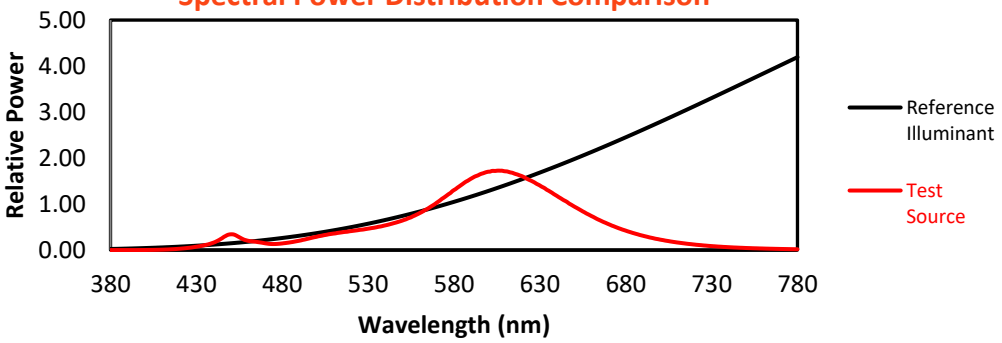
REPORT NUMBER: SP1-2501-332-2

TM-30-18

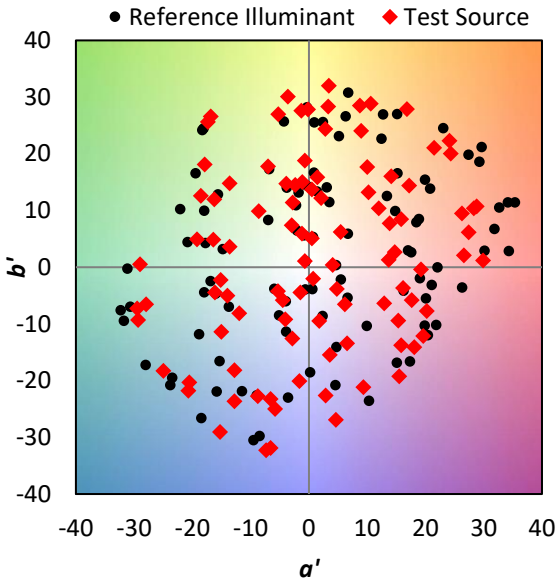
Summary

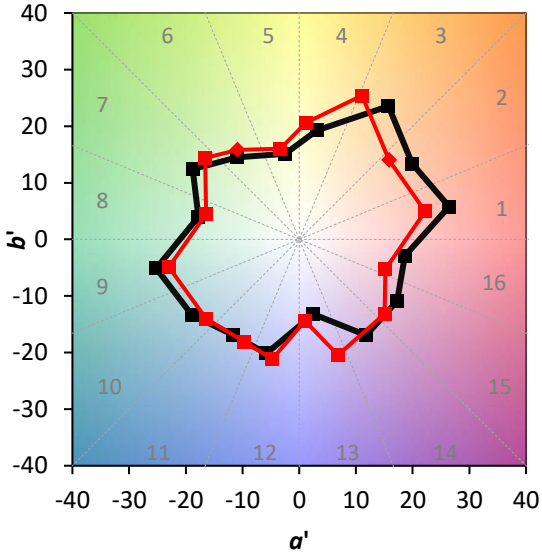
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

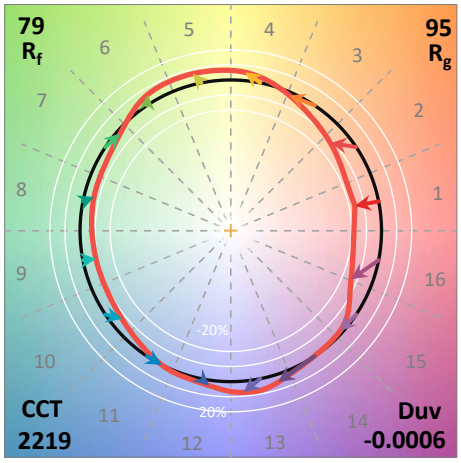
Spectral Power Distribution Comparison

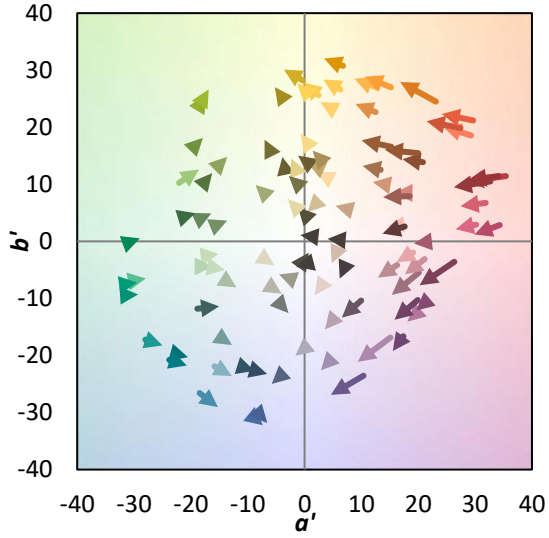


Color Vector Graphics







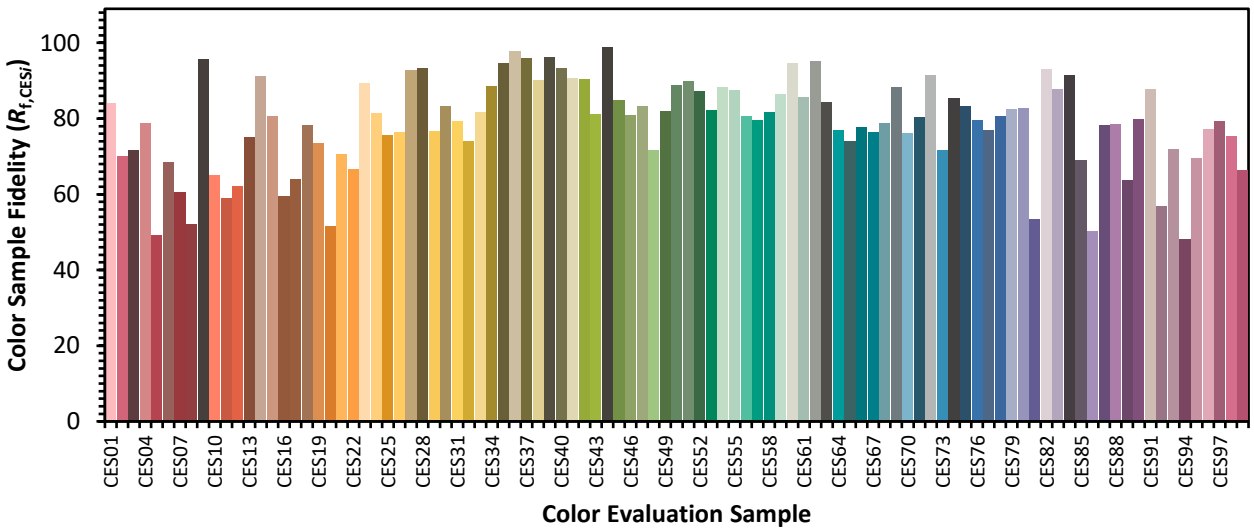


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

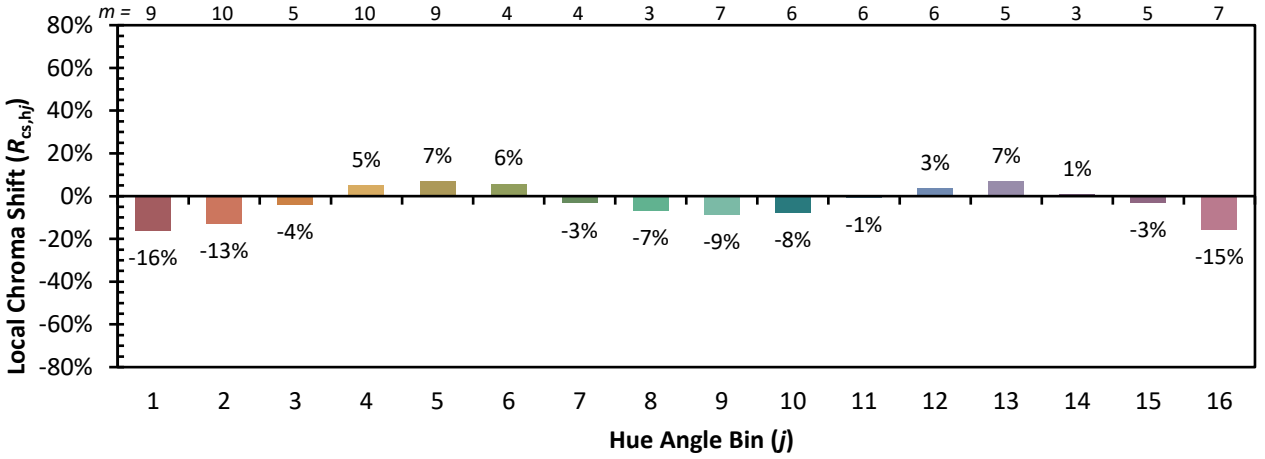
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82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

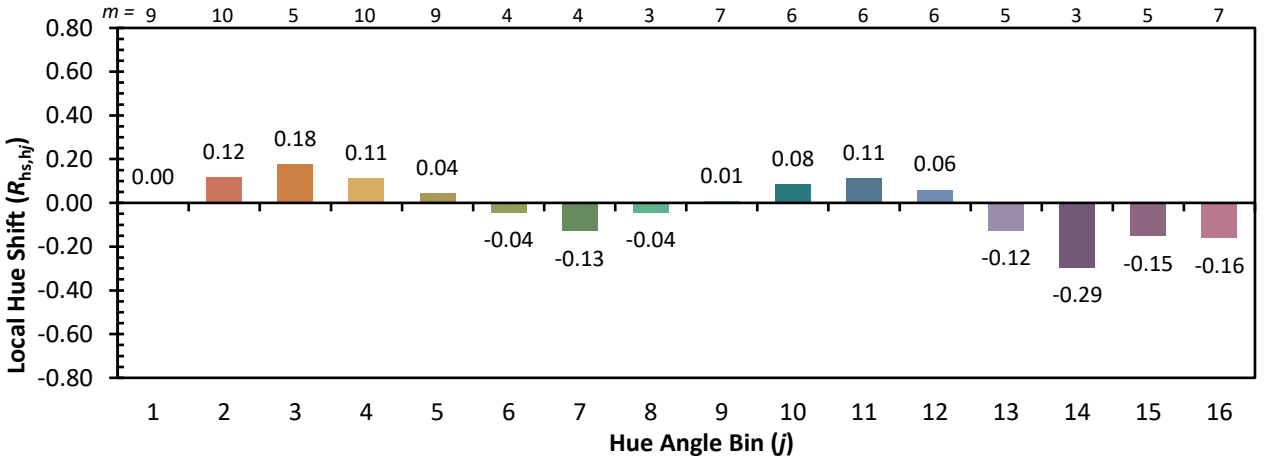


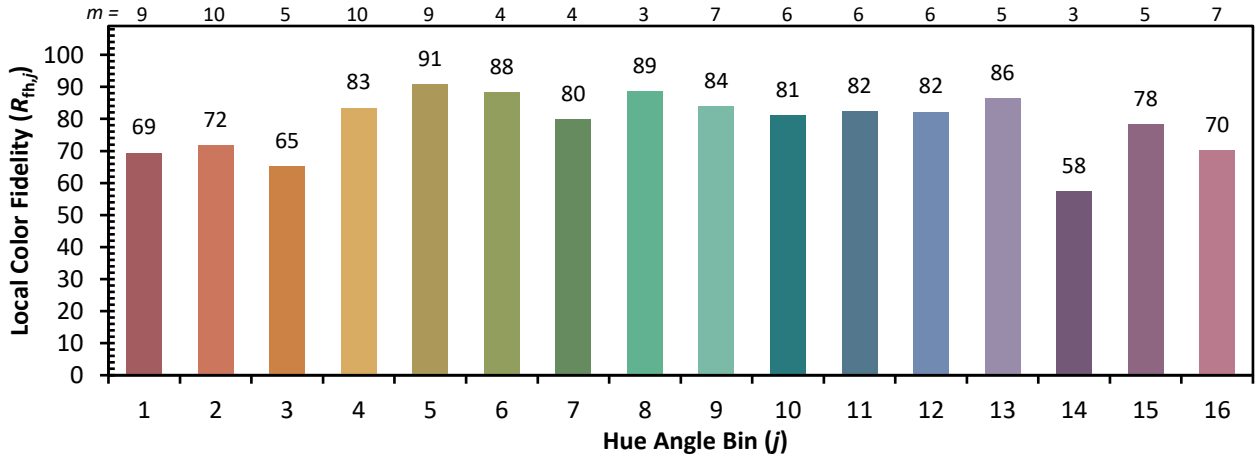
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



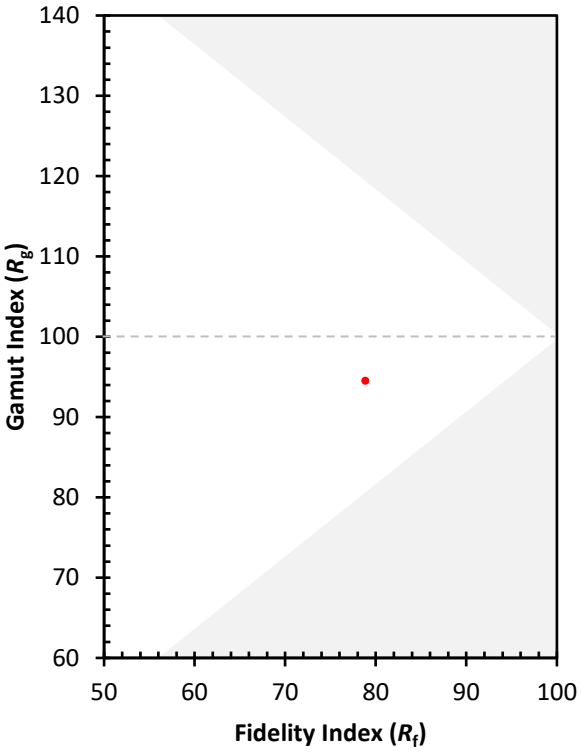


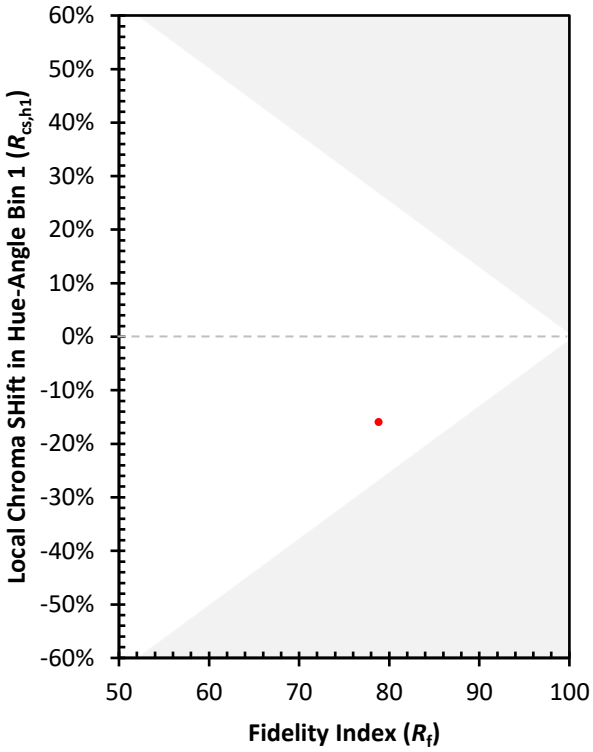


REPORT NUMBER: SP1-2501-332-2

TM-30-18

Measure Comparisons





(END OF REPORT)