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: P1046440

Luminaire Tested: **FFX-CLB-40-740-U-FR-T4-UPLR**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046440
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-740-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6382.3 lumens
Efficiency:	N/A
Efficacy:	162.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - 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

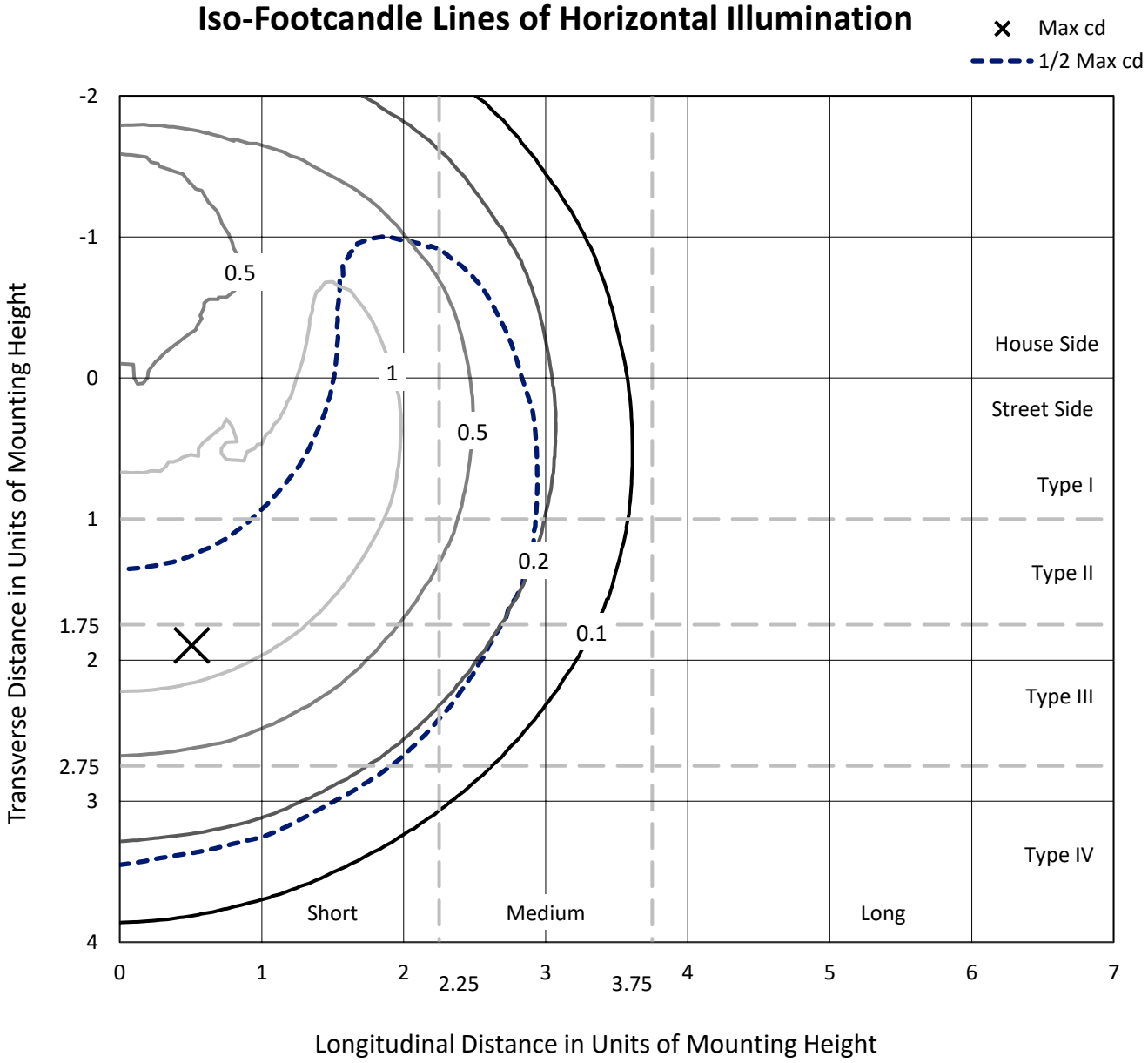


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Iso-Footcandle Lines of Horizontal Illumination



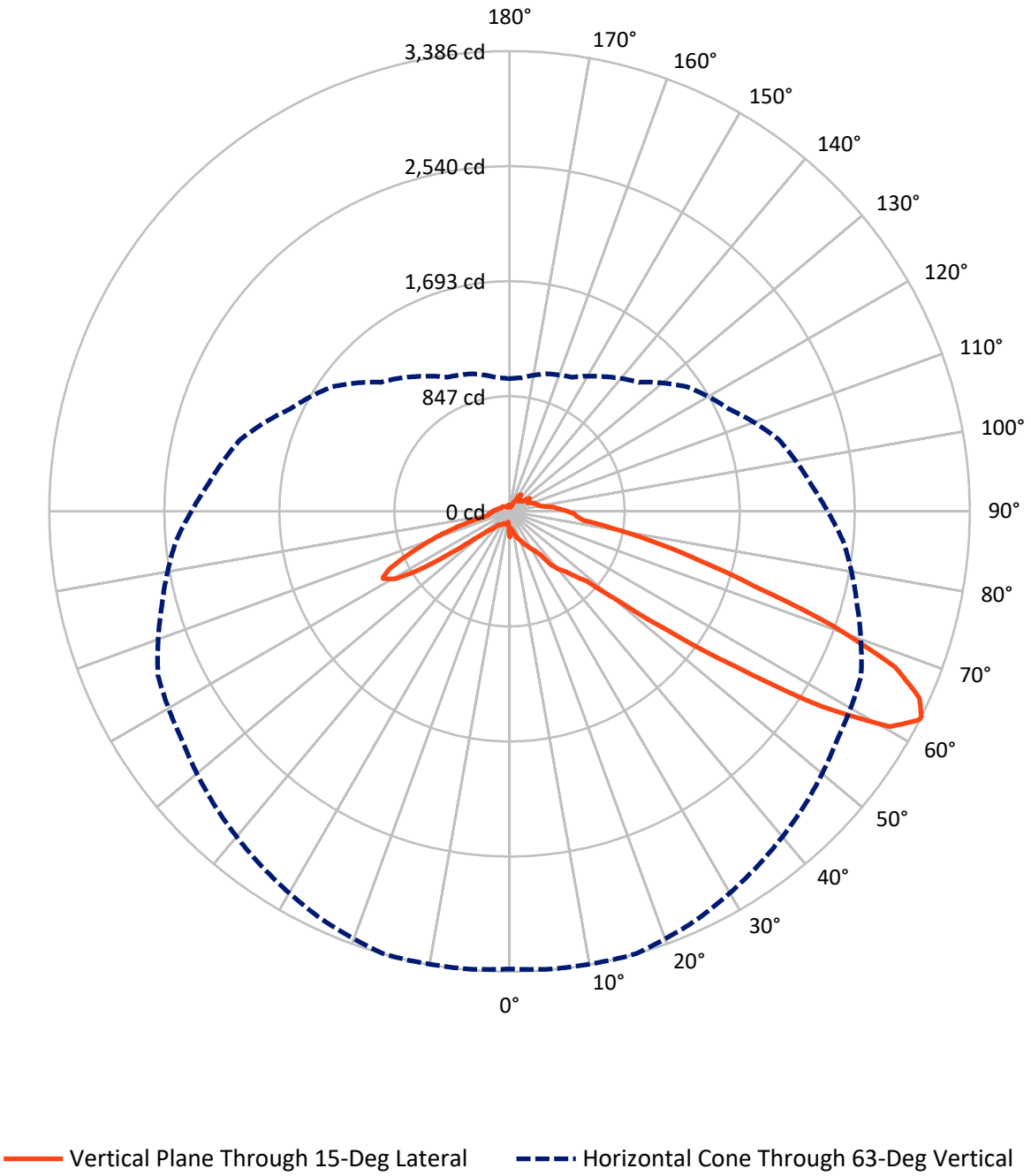
Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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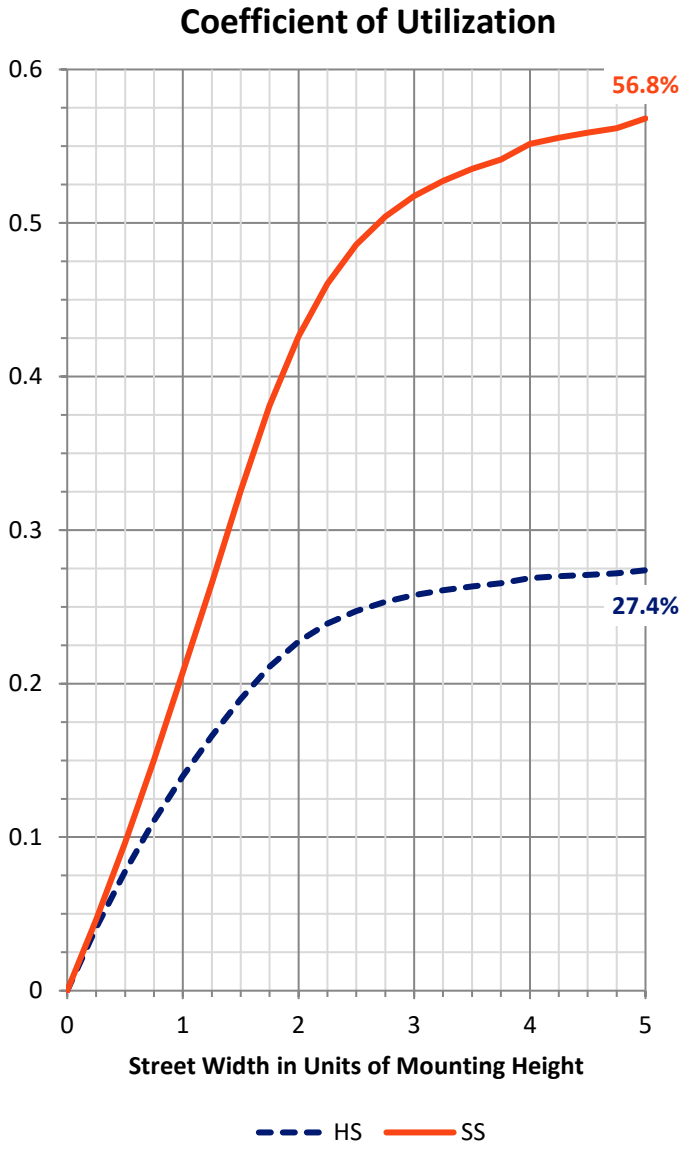
REPORT NUMBER: P1046440
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1805.0	294.1	2099.1
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	3779.4	503.8	4283.2
	% Fixture	59.2	7.9	67.1
Total	Lumens	5584.4	797.9	6382.3
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.2
10°-20°	41.8	0.7
20°-30°	90.5	1.4
30°-40°	186.1	2.9
40°-50°	383.8	6.0
50°-60°	1262.6	19.8
60°-70°	2090.5	32.8
70°-80°	1096.5	17.2
80°-90°	421.0	6.6
90°-100°	254.3	4.0
100°-110°	160.2	2.5
110°-120°	118.6	1.9
120°-130°	101.0	1.6
130°-140°	65.9	1.0
140°-150°	57.2	0.9
150°-160°	26.2	0.4
160°-170°	10.7	0.2
170°-180°	3.7	0.1
0°-90°	5584.4	87.5
0°-180°	6382.3	100.0



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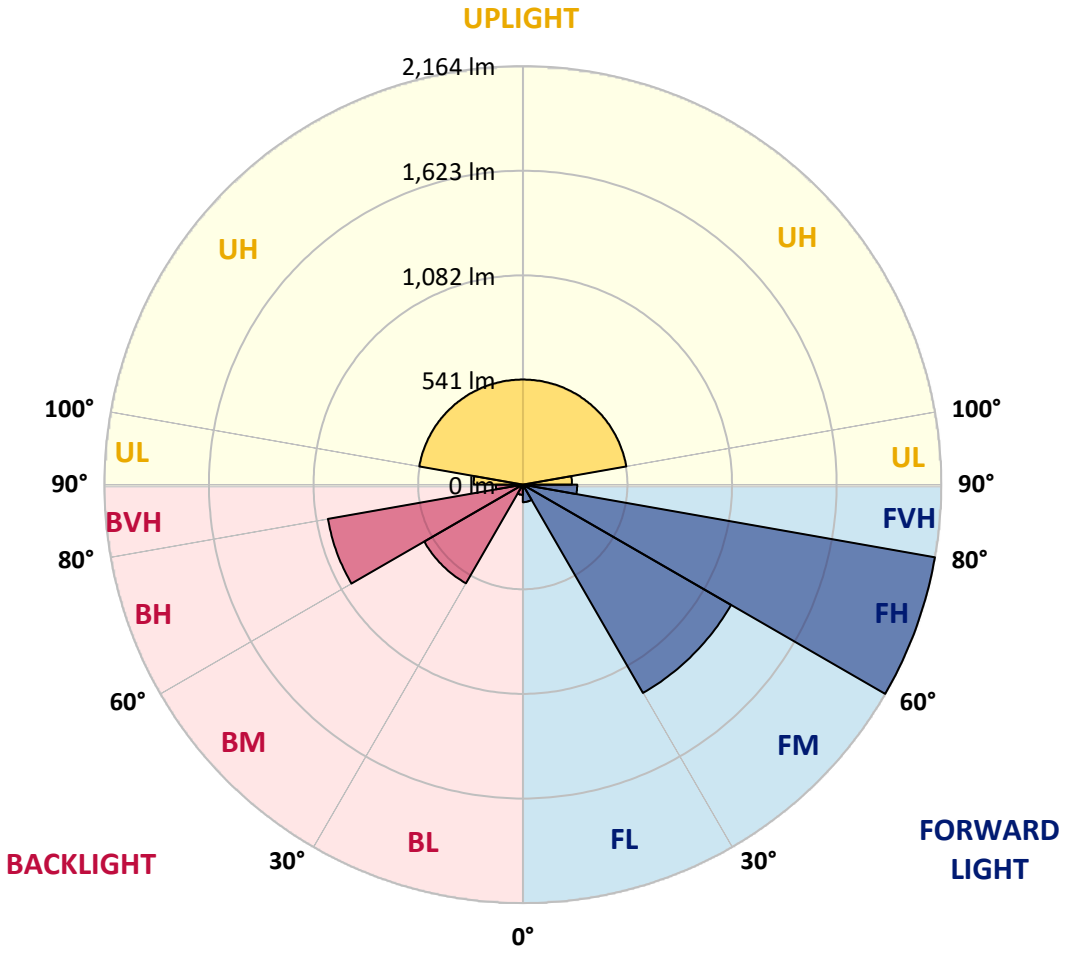
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	90.8	1.4			
FM	(30°-60°)	1243.6	19.5			
FH	(60°-80°)	2163.7	33.9			G2/5000
FVH	(80°-90°)	281.3	4.4			G3/500
BL	(0°-30°)	53.1	0.8	B0/110		
BM	(30°-60°)	588.9	9.2	B1/1000		
BH	(60°-80°)	1023.2	16.0	B3/2500		G3/2500
BVH	(80°-90°)	139.7	2.2			G2/225
UL	(90°-100°)	254.3	4.0		U3/500	
UH	(100°-180°)	543.5	8.5		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5
2.5°	116.0	116.0	132.8	135.7	151.6	156.7	147.9	141.2	157.5	191.0	196.5
5°	126.1	128.6	128.2	127.8	128.6	143.7	159.2	152.1	124.8	99.3	99.3
7.5°	142.8	143.7	143.3	142.8	137.4	128.6	124.8	136.1	143.3	121.9	102.2
10°	154.6	153.7	153.3	152.9	153.7	157.1	155.8	142.0	128.2	121.1	116.9
12.5°	176.8	177.2	175.9	175.1	174.3	173.0	171.7	174.7	167.1	146.6	132.8
15°	193.5	193.5	196.9	196.0	196.0	191.8	186.0	177.6	167.5	162.1	150.0
17.5°	211.1	211.5	211.1	211.1	209.4	204.0	197.7	190.2	179.7	170.5	160.0
20°	228.3	228.3	227.9	227.4	227.0	222.8	214.9	204.8	195.2	186.4	175.5
22.5°	246.3	247.6	248.4	247.6	246.3	242.1	233.3	223.7	214.5	201.9	190.2
25°	271.8	272.3	271.4	270.6	268.9	263.5	256.8	246.7	235.4	222.0	206.5
27.5°	296.1	297.0	296.6	296.6	293.2	288.6	281.9	268.5	255.9	240.4	224.5
30°	323.8	323.0	320.9	321.3	319.2	315.4	307.9	296.1	280.2	261.8	244.2
32.5°	351.0	351.0	348.1	346.8	346.8	341.8	333.4	321.3	306.2	286.5	269.3
35°	380.8	388.3	395.8	398.8	398.8	391.6	381.6	365.7	352.7	332.2	310.8
37.5°	523.6	519.0	500.6	502.6	496.4	493.4	486.7	473.3	455.3	423.9	391.2
40°	573.9	573.0	559.2	557.5	554.6	545.0	537.8	528.6	522.3	484.6	435.6
42.5°	582.7	587.3	605.7	610.3	634.2	619.5	591.0	539.1	526.1	497.6	477.1
45°	681.5	683.2	683.2	684.0	677.7	666.8	663.1	630.0	604.0	563.0	524.4
47.5°	779.9	783.7	769.1	780.8	797.1	774.9	764.9	737.6	702.0	670.2	606.9
50°	1008.6	1023.3	1026.2	1026.7	1033.8	1032.1	1017.0	979.3	943.7	870.8	800.5
52.5°	1432.1	1446.4	1452.7	1437.6	1415.4	1405.3	1409.1	1393.6	1311.1	1232.7	1089.9
55°	1985.0	2009.8	2009.8	2025.7	2019.0	1971.2	1968.3	1866.9	1733.7	1646.6	1522.2
57.5°	2724.8	2687.5	2708.4	2731.1	2685.0	2634.7	2559.7	2453.8	2259.0	2108.6	1928.5
60°	3273.1	3258.0	3216.5	3191.0	3075.8	2976.1	2917.0	2839.5	2691.7	2494.0	2253.1
62.5°	3373.6	3384.5	3381.6	3381.6	3289.4	3170.0	3050.7	2937.1	2845.4	2641.8	2451.3
63°	3367.3	3380.7	3386.2	3384.5	3301.6	3183.9	3065.3	2940.1	2855.0	2647.3	2463.0
65°	3313.7	3325.0	3315.4	3312.0	3259.7	3180.1	3046.9	2922.9	2845.4	2623.0	2464.7
67.5°	3098.4	3095.9	3059.9	3076.2	3043.1	2998.7	2874.3	2752.0	2698.4	2455.4	2309.7
70°	2502.4	2484.8	2524.1	2547.6	2511.6	2494.0	2346.1	2265.7	2196.6	2011.9	1894.1
72.5°	1913.0	1876.6	1883.3	1904.6	1859.4	1847.2	1784.0	1717.8	1684.7	1569.5	1438.8
75°	1500.0	1480.3	1443.9	1449.7	1412.4	1400.3	1393.6	1374.3	1361.3	1265.4	1136.0
77.5°	1121.7	1120.9	1090.3	1085.7	1058.9	1079.0	1071.1	1100.0	1093.7	1017.4	919.0
80°	785.0	780.4	788.3	785.4	779.1	790.8	778.3	794.2	794.2	744.3	702.9
82.5°	512.3	521.5	546.6	552.5	561.7	589.4	545.0	521.5	515.2	509.8	489.7
85°	508.5	511.0	500.1	501.4	497.2	486.7	494.7	498.5	492.2	462.0	417.6
87.5°	479.2	482.5	473.7	476.3	460.8	464.1	469.1	472.1	469.1	442.3	405.5
90°	403.8	407.6	415.5	415.5	416.8	417.6	409.7	414.3	411.3	385.8	359.0
92.5°	358.1	361.5	361.9	362.3	359.0	369.9	356.9	348.9	346.8	326.3	307.0
95°	327.6	323.8	323.0	323.8	322.1	321.7	313.3	307.5	304.9	288.6	269.8
97.5°	256.4	258.4	257.6	259.7	255.5	255.1	248.0	240.4	237.9	224.5	212.0
100°	224.9	224.5	225.4	225.8	223.3	220.3	215.3	209.9	206.9	196.9	184.7
102.5°	211.1	210.7	212.4	212.8	210.7	208.6	204.4	201.1	198.5	189.3	175.9
105°	202.3	201.1	203.2	203.2	198.5	197.3	194.4	193.9	192.3	181.4	168.4
107.5°	190.2	188.1	190.6	190.2	188.5	187.2	184.7	183.0	181.8	172.6	157.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	178.9	175.9	*177.2*	178.0	179.3	178.4	176.3	173.0	169.6	162.1	150.0
112.5°	157.9	159.6	*159.2*	159.2	160.4	160.8	157.1	155.0	152.9	147.0	139.1
115°	150.0	150.0	*150.0*	150.0	146.6	145.3	141.6	139.1	138.6	131.5	126.5
117.5°	143.7	144.5	*146.6*	147.9	152.1	149.5	141.2	135.7	133.6	130.7	125.2
120°	169.2	166.3	*163.4*	162.9	163.4	161.7	160.0	156.2	151.2	143.3	128.2
122.5°	181.4	173.8	*175.1*	174.7	171.7	173.0	173.4	173.8	170.5	157.9	134.5
125°	152.1	150.0	*151.2*	152.5	152.9	152.5	151.6	155.4	150.8	146.6	129.0
127.5°	121.5	120.6	*118.1*	117.7	116.9	117.3	117.3	118.5	114.4	110.2	109.3
130°	115.6	113.9	*114.4*	114.8	114.4	111.8	110.2	108.1	107.7	103.5	97.6
132.5°	104.7	105.6	*112.7*	113.5	118.5	115.6	106.8	100.9	101.8	103.9	101.8
135°	98.0	97.6	*103.0*	103.5	111.0	108.9	101.8	95.1	95.1	100.1	98.0
137.5°	100.1	100.9	*101.4*	101.8	101.4	100.9	100.5	97.6	95.5	95.1	90.1
140°	107.7	107.2	*103.0*	103.5	103.0	103.0	105.6	107.7	100.5	94.2	85.9
142.5°	112.7	113.9	*112.3*	114.4	118.1	114.8	110.6	105.1	100.9	96.8	91.7
145°	152.9	150.0	*148.7*	147.9	145.3	138.2	134.0	128.6	123.6	116.9	108.5
147.5°	138.6	139.5	*137.0*	137.8	134.5	131.9	131.1	131.5	129.9	126.1	117.3
150°	110.2	111.0	*108.5*	107.2	106.0	106.0	106.0	106.8	104.7	102.2	98.0
152.5°	77.1	76.2	*75.4*	75.0	74.1	73.3	73.3	73.7	71.6	70.8	67.4
155°	70.8	70.4	*67.0*	66.2	67.0	67.9	68.3	67.0	65.3	63.7	59.1
157.5°	55.3	54.0	*53.6*	54.5	54.5	54.0	53.2	54.0	52.4	51.9	51.1
160°	45.2	44.8	*45.2*	45.2	45.7	45.7	45.2	45.2	44.4	44.8	44.8
162.5°	38.5	38.5	*38.5*	38.1	39.0	39.4	39.0	39.0	39.4	40.6	41.5
165°	33.1	33.1	*33.5*	33.5	33.9	33.9	34.3	34.8	35.6	38.5	41.0
167.5°	31.0	31.0	*31.4*	31.4	31.8	32.3	33.1	34.8	37.3	40.6	41.9
170°	30.6	30.6	*30.6*	30.6	31.0	31.4	33.1	35.6	38.5	40.6	39.4
172.5°	31.8	31.8	*32.3*	32.3	32.3	33.9	35.2	37.3	39.0	39.4	38.1
175°	33.1	32.7	*33.1*	33.1	33.5	34.8	36.4	37.3	38.1	38.5	39.0
177.5°	32.3	32.3	*32.3*	32.7	32.7	33.1	33.9	34.3	35.2	36.0	37.3
180°	31.4	31.4	*31.4*	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5
2.5°	196.5	191.0	148.7	127.3	145.3	180.5	183.9	159.2	123.6	85.9	78.3
5°	104.7	110.6	123.6	123.1	114.8	107.2	98.0	92.2	101.8	97.6	100.1
7.5°	94.7	89.2	91.3	106.8	104.3	79.2	71.6	70.0	78.3	97.6	95.5
10°	115.2	113.5	107.2	94.7	90.5	93.8	96.8	94.7	87.1	75.8	74.1
12.5°	130.3	128.2	129.0	137.0	127.3	105.6	93.4	89.6	93.8	110.6	113.9
15°	144.9	141.2	135.7	124.4	115.2	109.3	102.2	94.7	97.2	92.6	90.9
17.5°	155.0	149.1	137.8	129.4	120.2	112.7	106.4	98.4	93.0	91.7	92.2
20°	168.4	162.1	150.0	140.3	129.0	119.0	108.1	99.7	94.2	92.2	92.2
22.5°	183.9	176.3	162.5	149.1	136.6	123.6	110.6	101.4	96.3	94.2	93.4
25°	200.2	192.7	175.5	161.3	145.3	131.1	117.7	106.0	100.5	98.0	95.9
27.5°	217.0	207.8	190.6	173.0	155.8	139.1	124.8	112.7	105.1	100.9	101.4
30°	235.4	227.9	208.6	188.5	167.1	147.4	133.6	119.8	110.6	106.0	106.4
32.5°	260.1	248.0	224.9	201.9	181.0	159.2	141.6	125.7	115.6	112.7	113.1
35°	301.2	285.7	257.6	226.2	198.1	172.6	150.4	131.5	119.8	115.2	114.8
37.5°	375.3	354.4	322.1	285.3	244.6	203.2	167.1	138.2	123.6	116.0	114.8
40°	411.3	382.9	342.2	310.4	282.7	247.1	206.1	162.5	129.9	120.2	119.0
42.5°	459.5	435.6	382.9	320.9	284.0	254.3	225.4	197.3	156.7	131.5	126.9
45°	506.0	484.6	443.2	382.4	327.6	281.1	237.9	207.3	182.2	156.7	154.6
47.5°	584.3	561.7	492.6	438.6	380.8	328.0	282.7	232.5	199.8	181.8	181.8
50°	780.8	739.3	671.0	588.1	495.1	409.7	345.6	284.0	244.6	217.4	216.1
52.5°	1055.1	996.5	896.0	804.2	694.5	595.6	495.9	388.7	331.3	292.0	291.5
55°	1451.4	1391.5	1257.0	1080.7	946.2	828.1	724.7	606.9	516.5	452.8	447.8
57.5°	1874.0	1823.8	1686.8	1467.7	1255.8	1046.8	921.5	827.7	784.1	739.7	730.5
60°	2148.0	2061.7	1936.9	1727.9	1522.6	1256.2	1100.8	993.2	978.5	968.9	956.7
62.5°	2320.6	2218.8	2033.2	1782.7	1594.2	1342.1	1203.0	1088.2	1053.9	1002.4	987.7
63°	*2340.3*	*2229.7*	*2048.7*	*1781.5*	*1596.3*	*1343.3*	*1210.5*	*1088.2*	*1048.0*	*986.0*	*976.4*
65°	2331.0	2228.4	2047.9	1755.5	1547.7	1318.6	1188.8	1038.4	974.3	892.2	875.9
67.5°	2190.3	2081.0	1910.9	1623.6	1435.9	1202.2	1059.3	899.7	802.6	722.1	703.3
70°	1783.1	1715.3	1565.8	1317.4	1174.9	992.7	867.5	742.2	637.1	552.5	531.1
72.5°	1358.8	1287.6	1175.4	1014.1	909.0	783.7	665.2	568.8	482.1	426.0	427.7
75°	1078.2	1010.3	917.8	811.8	725.9	614.5	497.2	401.7	340.1	306.6	303.7
77.5°	868.3	821.4	740.6	643.0	568.8	452.4	348.1	264.7	219.1	199.8	194.4
80°	669.4	636.7	576.4	490.5	413.4	317.9	237.1	187.2	162.9	146.6	143.7
82.5°	476.3	456.6	406.3	346.4	294.0	244.2	207.8	175.1	150.0	136.1	131.9
85°	397.5	379.1	347.2	310.0	276.5	240.0	201.5	166.7	143.3	132.4	126.9
87.5°	385.8	368.6	338.0	298.2	261.8	222.4	183.5	150.8	134.0	123.6	120.2
90°	345.6	332.6	305.8	269.3	232.9	192.7	158.8	135.7	122.7	114.4	110.6
92.5°	297.8	286.5	264.3	233.7	203.2	174.3	148.3	129.0	116.0	107.7	104.7
95°	258.9	251.7	233.3	207.3	185.1	161.3	139.1	120.6	107.2	99.7	96.8
97.5°	206.5	198.1	184.7	166.7	150.0	133.2	116.9	104.3	94.7	89.6	87.1
100°	179.7	174.3	162.1	147.9	133.6	119.0	106.4	96.8	90.5	86.3	84.2
102.5°	169.2	165.5	154.1	139.9	126.5	112.3	99.7	90.9	86.3	82.5	80.8
105°	159.6	156.7	147.9	134.9	121.9	106.4	92.2	84.6	80.4	77.9	76.7
107.5°	149.5	146.2	137.8	125.2	113.9	100.5	88.0	78.7	73.3	70.4	70.0

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

Scaled Data Report

REPORT NUMBER: P1046440
CATALOG NUMBER: FFX-CLB-40-740-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	141.2	138.6	129.4	119.4	108.5	95.9	85.0	75.4	69.1	65.8	65.3
112.5°	132.4	129.4	120.2	110.6	101.4	90.5	80.8	72.5	66.6	63.3	62.8
115°	120.6	118.1	111.4	102.2	94.7	84.2	76.2	68.7	64.1	60.7	60.3
117.5°	121.9	114.8	105.6	97.2	90.5	82.9	75.8	70.0	62.8	59.1	59.1
120°	123.6	116.9	107.7	100.5	96.8	90.9	80.0	71.6	62.0	58.2	57.8
122.5°	121.9	122.7	117.7	110.6	103.0	93.0	79.6	70.4	60.7	57.8	58.2
125°	118.1	121.9	114.8	105.1	95.1	85.5	74.1	65.8	59.9	57.8	57.4
127.5°	106.8	106.0	96.8	89.6	82.5	74.6	67.4	62.4	58.2	55.7	54.5
130°	94.2	93.8	90.1	84.2	77.1	70.0	63.7	60.3	56.1	52.8	51.9
132.5°	99.3	98.0	90.1	80.4	72.5	66.6	62.4	58.6	52.8	49.0	48.6
135°	93.8	93.0	85.0	75.4	68.3	65.3	62.4	57.0	49.8	46.9	46.5
137.5°	85.9	82.5	75.8	70.0	66.6	65.8	62.0	55.7	49.0	45.7	45.2
140°	81.7	79.2	74.1	70.4	66.6	62.0	56.5	50.7	46.1	43.6	43.1
142.5°	86.7	85.9	78.3	71.6	65.8	60.3	54.5	50.7	45.7	42.3	41.9
145°	102.6	98.4	89.2	80.0	75.0	67.9	60.3	52.4	43.1	38.1	36.9
147.5°	112.3	108.5	99.3	89.2	78.3	67.0	55.3	45.2	38.1	34.3	33.5
150°	93.0	91.3	85.5	76.2	67.0	56.5	46.9	39.8	35.2	32.7	32.7
152.5°	65.3	64.9	62.4	57.0	51.1	45.2	40.2	36.0	33.5	31.8	31.8
155°	57.8	57.0	55.3	50.3	46.1	41.0	37.3	34.8	33.1	31.8	31.8
157.5°	49.8	49.0	48.6	44.8	41.5	38.1	35.2	33.1	31.8	31.0	30.6
160°	44.4	43.1	41.9	39.8	37.7	36.0	34.8	33.1	31.8	31.0	31.0
162.5°	41.5	40.6	38.5	36.9	36.0	36.0	36.4	35.6	33.1	31.8	31.4
165°	41.5	40.2	37.3	35.6	35.6	37.7	39.8	38.1	36.0	33.5	33.1
167.5°	41.9	41.0	38.1	36.9	38.1	40.6	42.7	42.3	39.4	37.3	37.3
170°	39.0	38.5	39.0	40.2	41.5	41.9	42.7	42.3	43.1	46.1	46.1
172.5°	37.7	38.1	40.2	42.3	44.8	44.8	42.7	42.3	46.1	50.3	51.1
175°	39.4	40.2	42.3	44.8	46.9	46.9	44.8	45.2	49.0	52.8	53.6
177.5°	37.7	38.1	39.0	38.5	39.4	37.3	38.1	37.3	38.5	38.5	38.5
180°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4

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

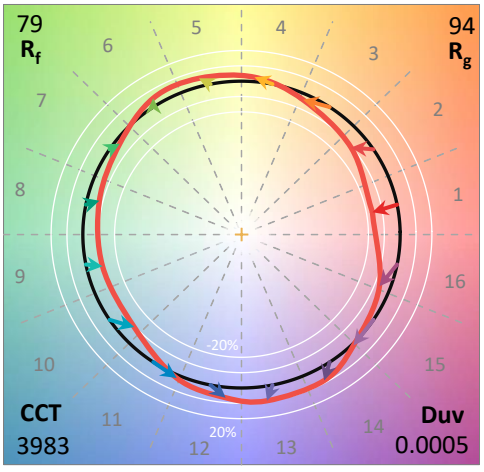
Test Information

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

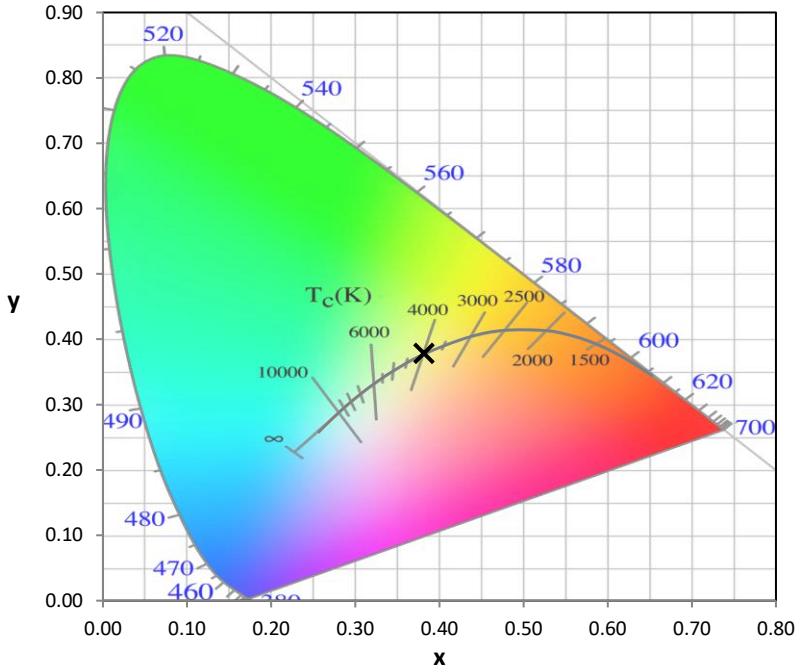
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

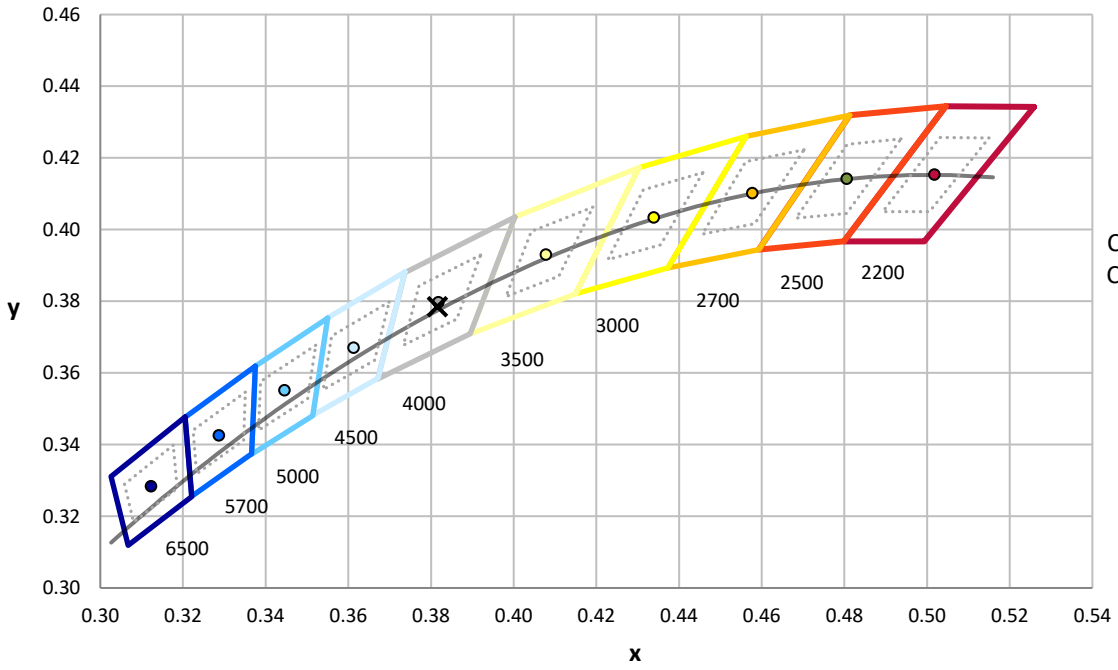
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

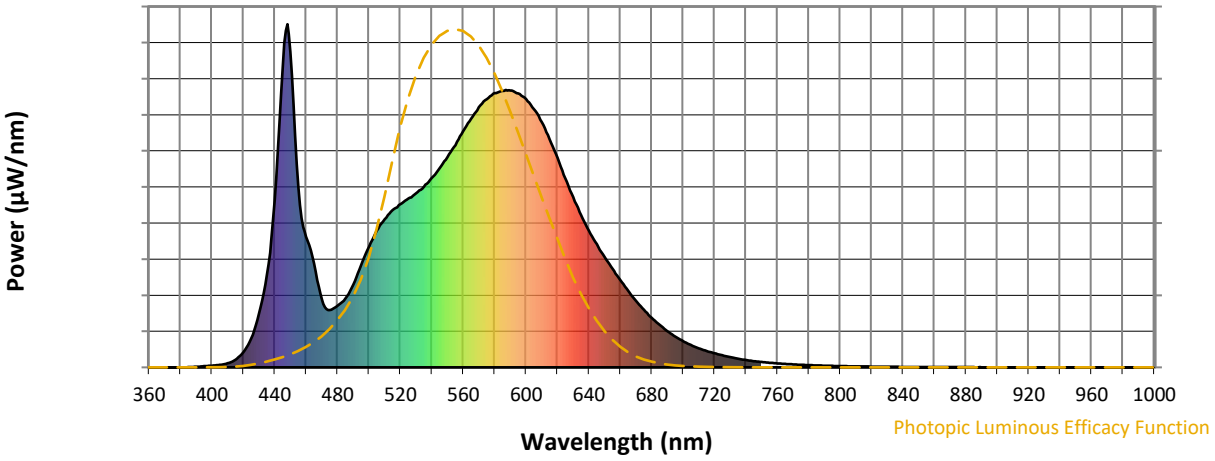


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

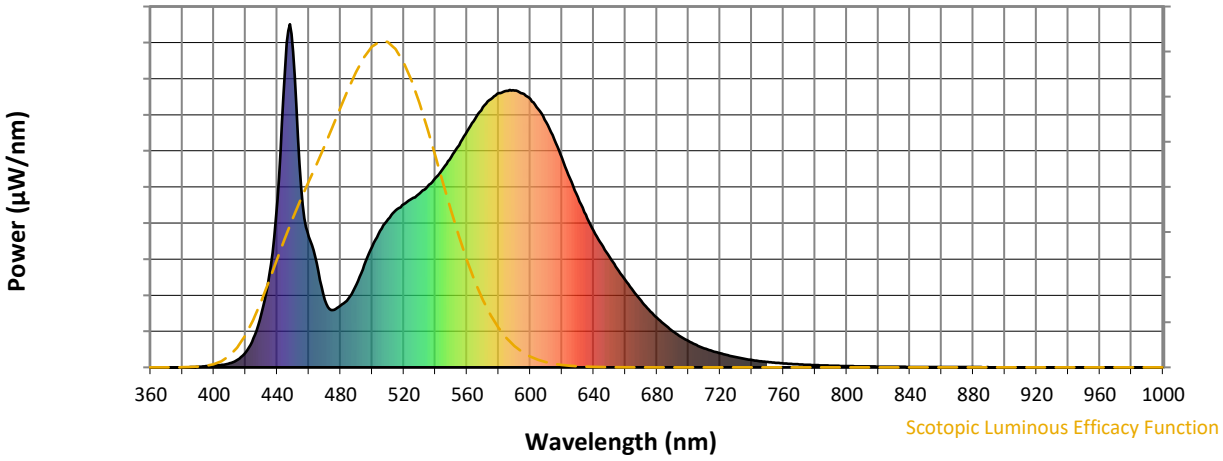


Photopic Lumens: NR

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

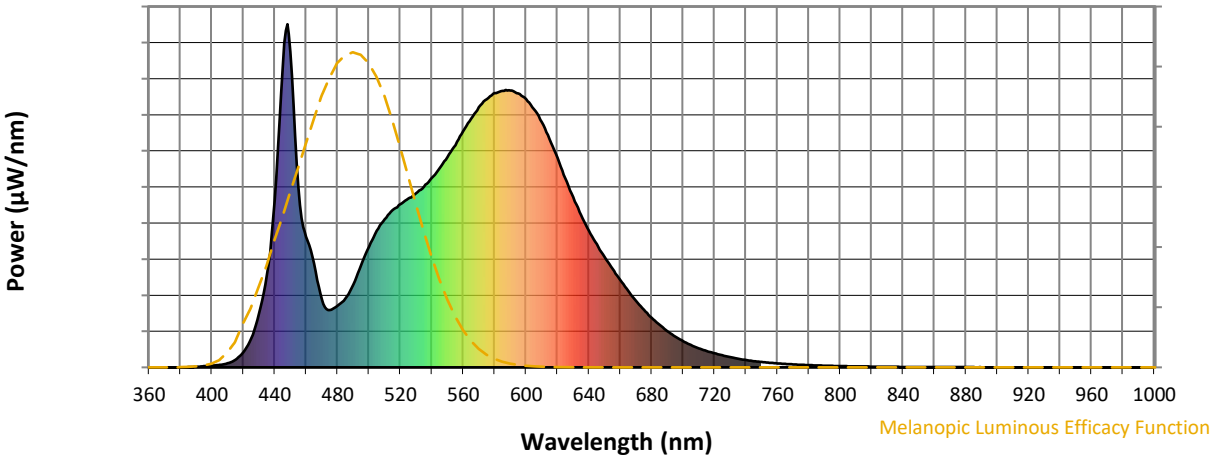


Scotopic Lumens: NR **S/P: 1.61**

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			

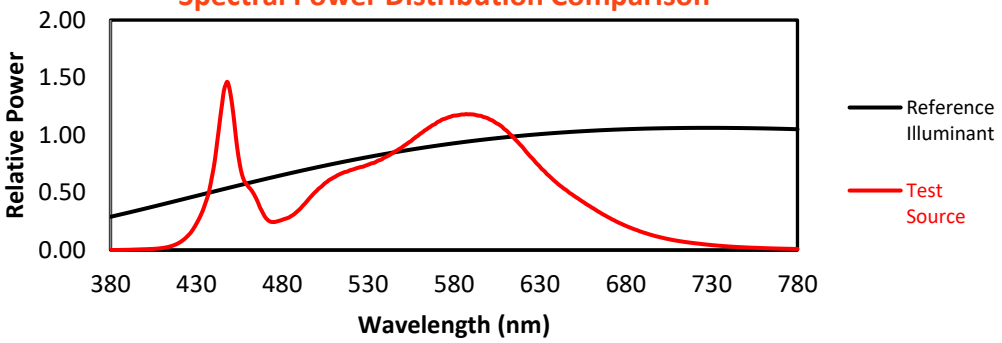
REPORT NUMBER: SP1-2501-332-11

TM-30-18

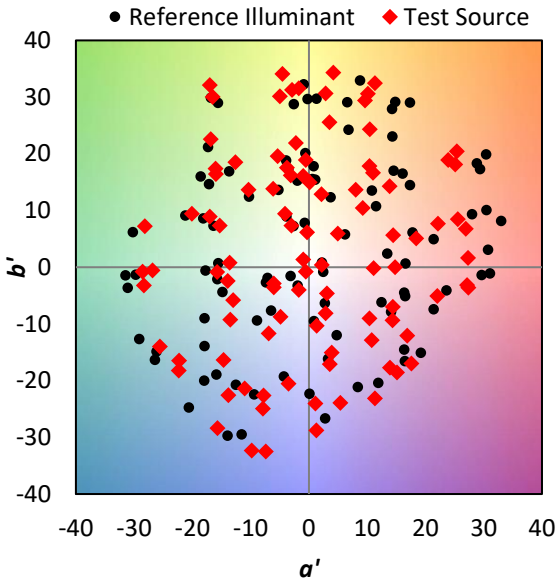
Summary

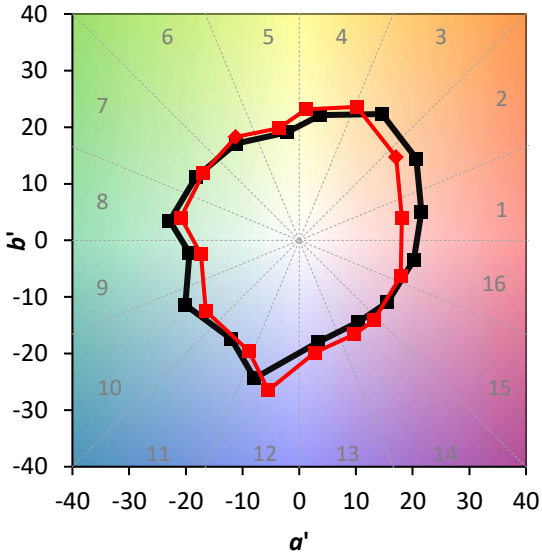
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

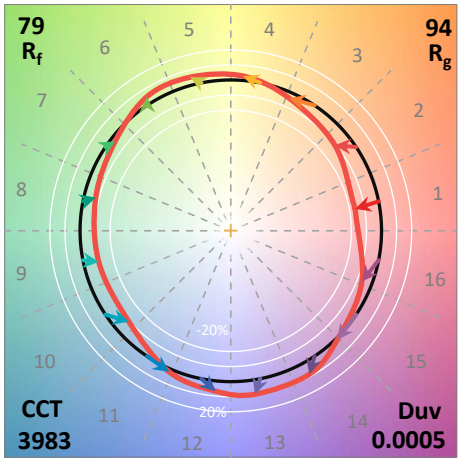
Spectral Power Distribution Comparison

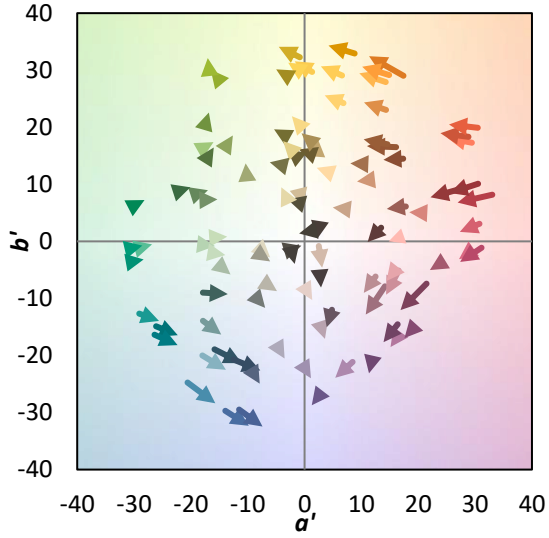


Color Vector Graphics







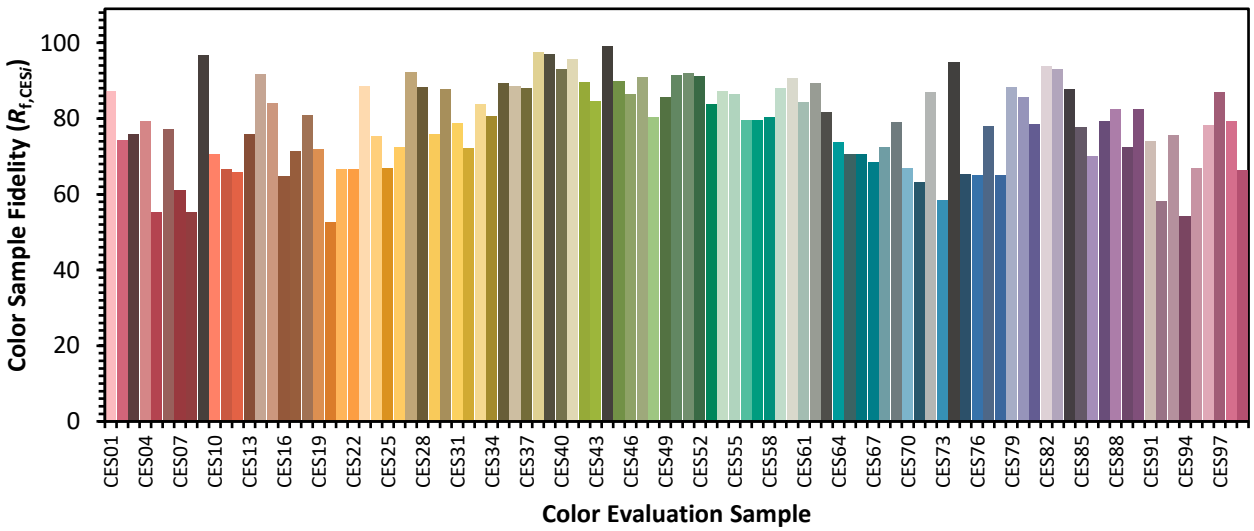


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

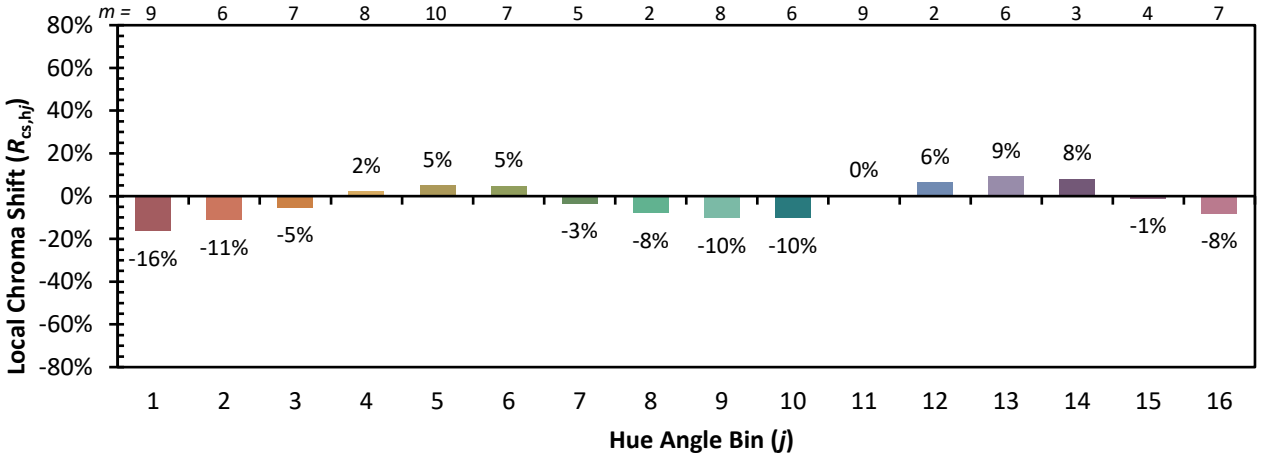
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 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	

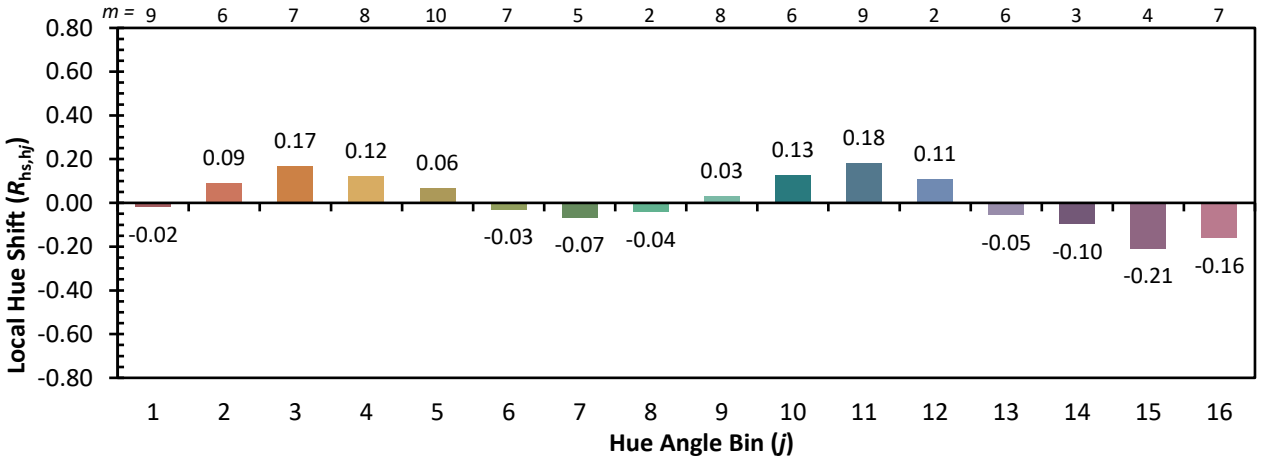


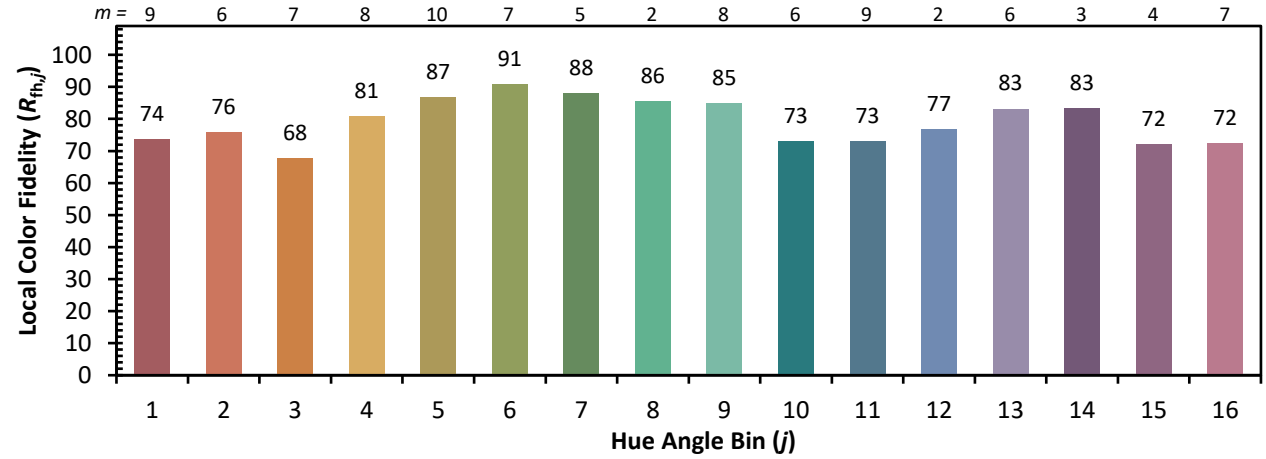
REPORT NUMBER: SP1-2501-332-11

TM-30-18

Color Rendition by Hue-Angle Bin



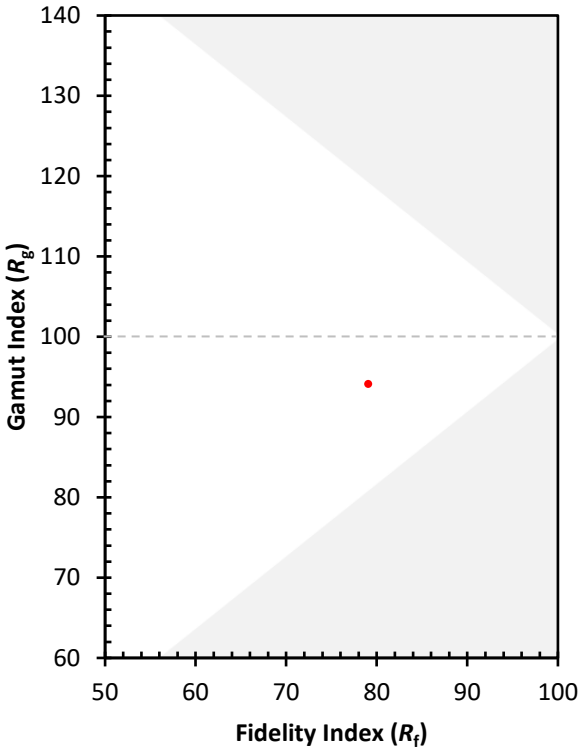


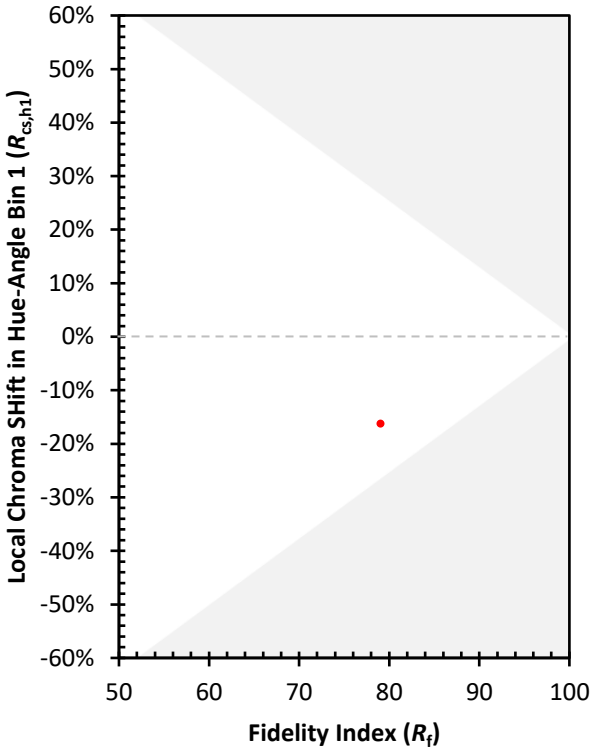


REPORT NUMBER: SP1-2501-332-11

TM-30-18

Measure Comparisons





(END OF REPORT)