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: P1046401

Luminaire Tested: **FFX-CLB-70-750-U-FR-T4**

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:	P1046401
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-750-U-FR-T4
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11592.3 lumens
Efficiency:	N/A
Efficacy:	162.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - G3

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

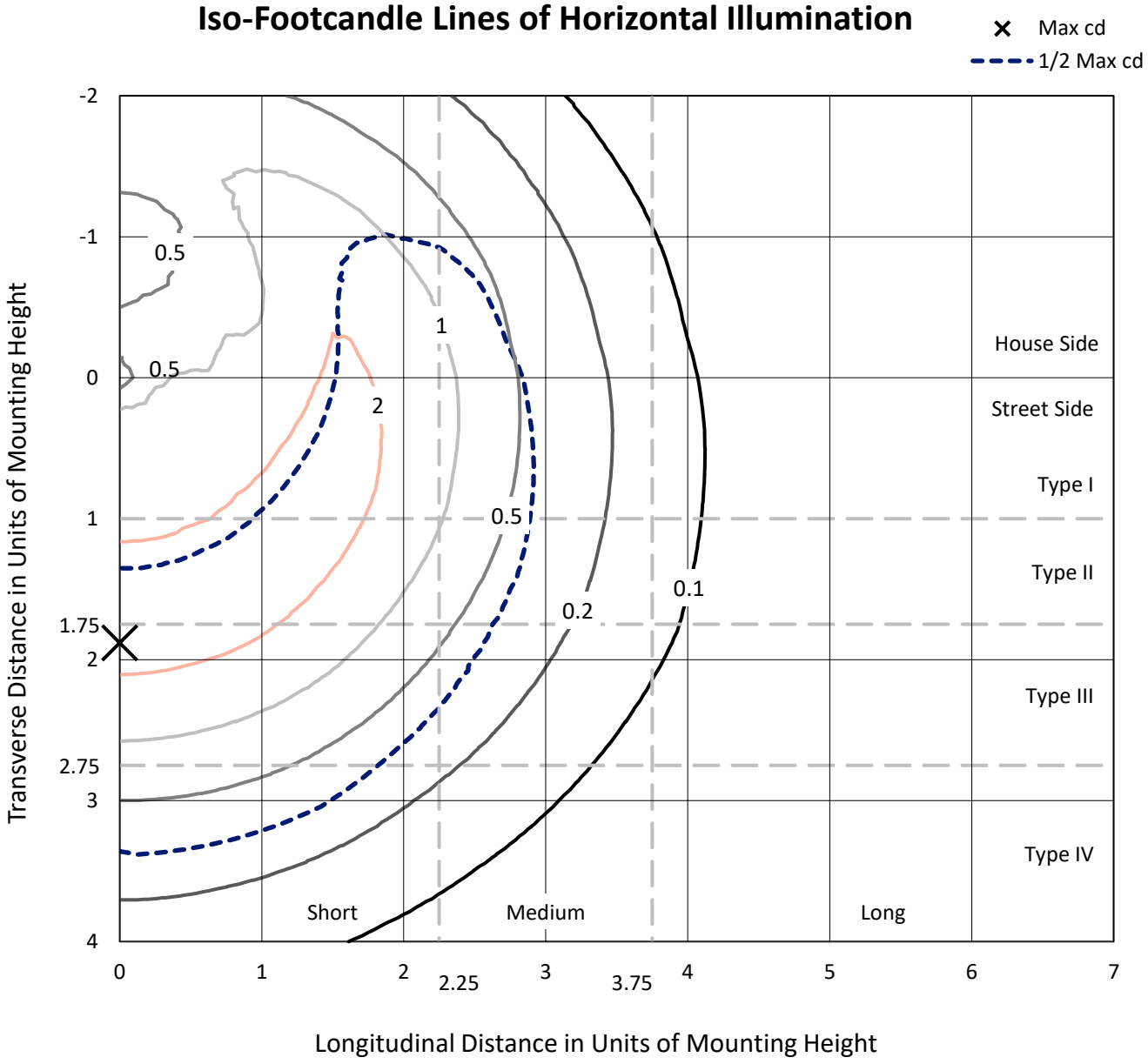


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046401
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4

Iso-Footcandle Lines of Horizontal Illumination



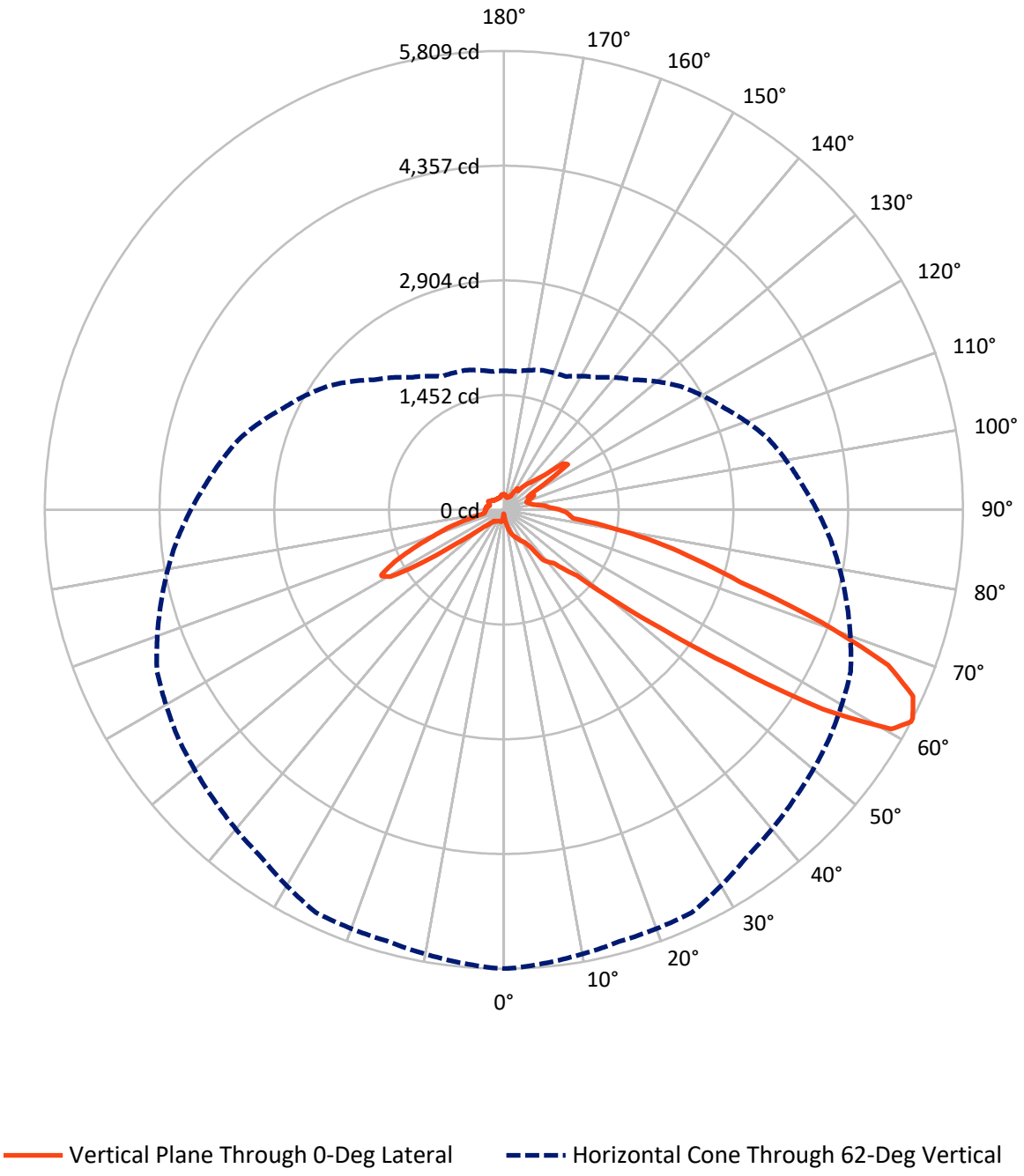
Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046401
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

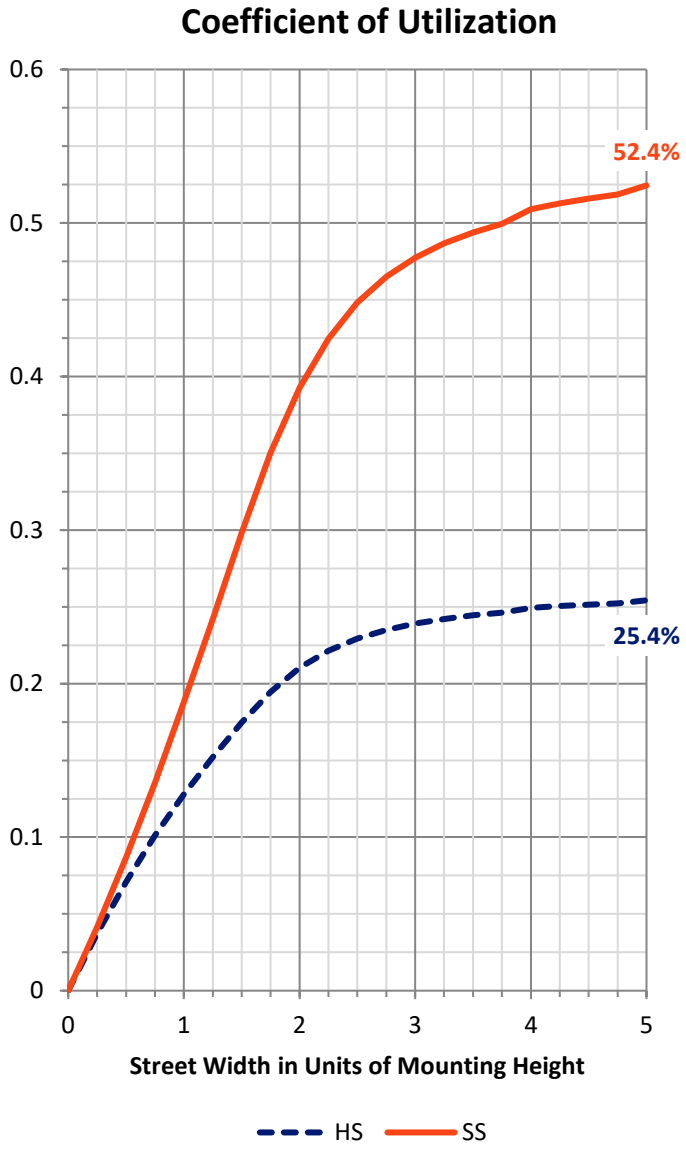
REPORT NUMBER: P1046401
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3050.1	871.5	3921.6
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	6332.2	1338.6	7670.7
	% Fixture	54.6	11.5	66.2
Total	Lumens	9382.3	2210.1	11592.3
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.1
10°-20°	64.4	0.6
20°-30°	139.2	1.2
30°-40°	278.8	2.4
40°-50°	610.6	5.3
50°-60°	2137.7	18.4
60°-70°	3577.7	30.9
70°-80°	1857.0	16.0
80°-90°	705.3	6.1
90°-100°	449.7	3.9
100°-110°	298.1	2.6
110°-120°	311.3	2.7
120°-130°	520.3	4.5
130°-140°	313.1	2.7
140°-150°	165.6	1.4
150°-160°	87.1	0.8
160°-170°	47.2	0.4
170°-180°	17.7	0.2
0°-90°	9382.3	80.9
0°-180°	11592.3	100.0



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

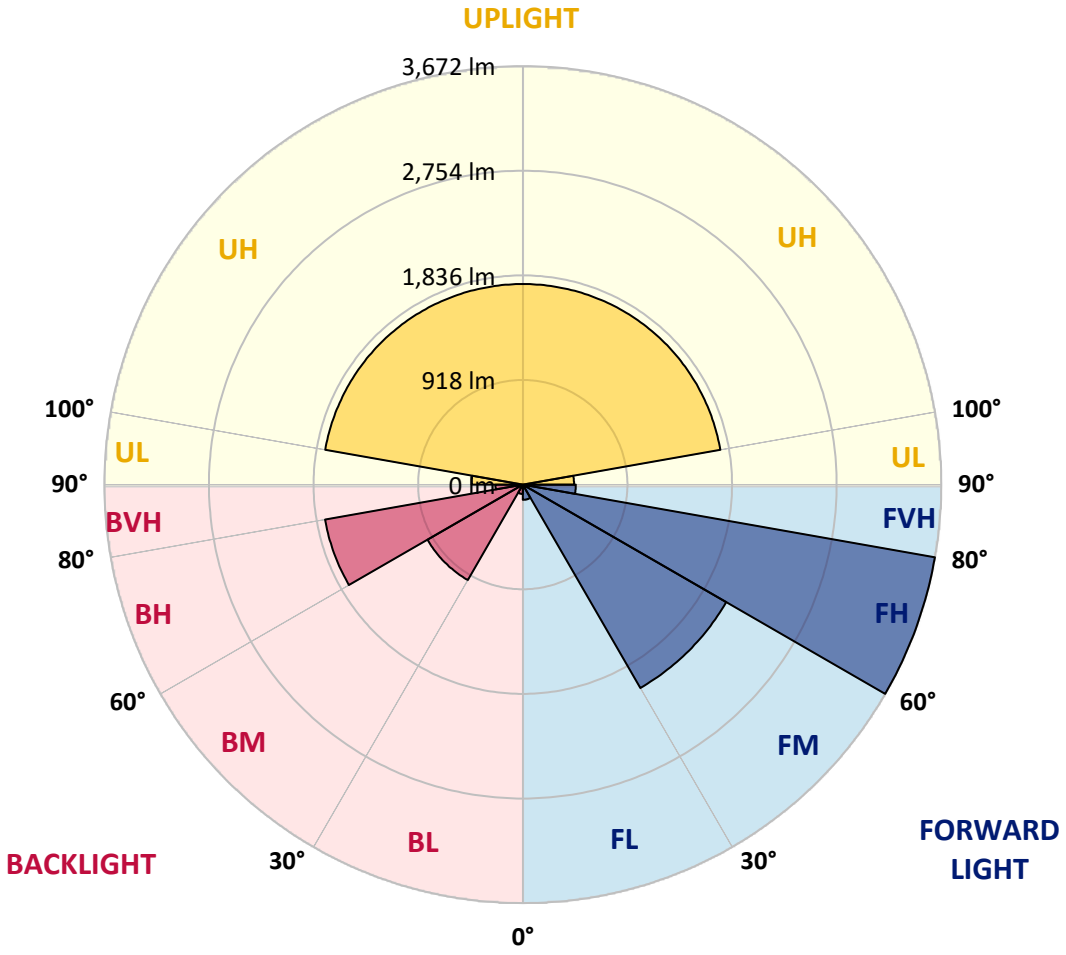
Scaled Data Report

REPORT NUMBER: P1046401
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	133.6	1.2			
FM	(30°-60°)	2061.0	17.8			
FH	(60°-80°)	3672.5	31.7			G2/5000
FVH	(80°-90°)	465.2	4.0			G3/500
BL	(0°-30°)	81.7	0.7	B0/110		
BM	(30°-60°)	966.1	8.3	B1/1000		
BH	(60°-80°)	1762.2	15.2	B3/2500		G3/2500
BVH	(80°-90°)	240.1	2.1			G3/500
UL	(90°-100°)	449.7	3.9		U3/500	
UH	(100°-180°)	1760.3	15.2		U5	

BUG Rating: B3-U5-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046401
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	73.0	71.5	71.5	74.5	78.2	78.2	78.9	76.7	76.7	76.0	76.7
5°	106.2	103.2	104.7	105.5	106.9	108.4	109.9	109.9	106.9	104.7	98.8
7.5°	148.2	147.5	149.0	148.2	146.7	150.4	152.6	157.8	159.3	149.7	137.9
10°	191.0	188.8	188.0	188.8	189.5	187.3	191.7	195.4	190.3	179.2	168.9
12.5°	237.5	237.5	237.5	236.7	236.7	236.0	234.5	233.8	228.6	216.1	199.8
15°	289.1	289.8	291.3	290.5	286.9	281.0	276.5	272.9	269.9	261.1	240.4
17.5°	320.8	319.3	320.8	320.0	318.6	314.9	306.8	299.4	289.8	277.3	261.8
20°	350.3	349.5	348.8	348.8	347.3	342.9	337.7	325.9	313.4	300.1	282.4
22.5°	373.1	371.7	373.1	372.4	371.7	370.2	361.3	351.0	337.0	322.3	303.8
25°	402.6	401.9	402.6	400.4	400.4	398.2	393.1	379.8	364.3	348.1	325.2
27.5°	435.1	432.9	435.1	434.3	431.4	425.5	421.1	406.3	387.2	371.7	351.0
30°	462.4	462.4	463.8	459.4	462.4	457.2	446.9	430.7	414.4	394.5	373.1
32.5°	491.1	491.1	489.7	488.9	492.6	486.0	474.2	455.0	441.7	421.1	402.6
35°	571.5	565.6	575.2	574.5	592.9	579.6	557.5	531.7	511.0	484.5	460.2
37.5°	802.3	799.4	795.0	766.9	734.5	739.6	743.3	714.6	688.8	640.8	584.0
40°	868.0	867.2	866.5	850.3	859.1	835.5	823.7	809.0	804.5	741.9	665.9
42.5°	921.8	912.9	921.8	951.3	997.7	981.5	921.8	845.1	831.1	771.4	740.4
45°	1067.8	1061.9	1076.7	1085.5	1070.8	1044.2	1061.2	1005.1	966.8	882.0	825.2
47.5°	1242.6	1236.7	1250.7	1258.1	1288.3	1260.3	1247.0	1199.1	1134.9	1054.5	980.8
50°	1763.9	1697.6	1751.4	1733.0	1740.3	1677.7	1702.7	1634.2	1576.6	1444.6	1311.2
52.5°	2490.3	2468.2	2431.3	2390.0	2421.7	2354.6	2375.3	2300.8	2196.8	2043.4	1846.5
55°	3473.3	3398.8	3422.4	3507.2	3489.5	3369.3	3348.7	3167.3	2980.7	2751.4	2544.1
57.5°	4759.4	4722.5	4679.8	4623.0	4567.7	4443.0	4381.8	4179.0	3889.2	3569.2	3280.8
60°	5634.7	5605.2	5586.1	5412.8	5311.0	5060.3	5003.5	4862.6	4604.5	4256.5	3859.0
62°	5808.8	5804.3	5765.3	5657.6	5627.4	5361.9	5189.3	5032.2	4842.7	4489.5	4143.6
62.5°	5807.3	5798.4	5775.6	5685.6	5654.6	5406.1	5218.8	5052.2	4863.4	4516.8	4176.8
65°	5689.3	5669.4	5659.1	5605.2	5591.2	5445.2	5196.7	5024.9	4866.3	4484.3	4201.2
67.5°	5245.4	5269.0	5270.4	5216.6	5170.1	5083.1	4845.7	4696.7	4587.6	4189.4	3922.4
70°	4257.9	4226.2	4193.8	4218.9	4198.2	4151.0	3962.2	3774.9	3638.5	3429.8	3176.9
72.5°	3129.7	3179.8	3179.1	3186.5	3190.1	3071.4	2987.3	2879.7	2805.9	2625.3	2444.6
75°	2508.7	2513.2	2499.2	2447.5	2392.2	2323.7	2338.4	2328.8	2293.4	2102.4	1923.2
77.5°	1980.7	1932.1	1952.0	1870.9	1799.3	1798.6	1827.4	1855.4	1870.9	1717.5	1578.8
80°	1394.5	1383.4	1365.7	1373.1	1314.1	1329.6	1343.6	1362.8	1332.5	1241.8	1177.7
82.5°	880.5	870.9	856.9	924.7	981.5	969.0	924.0	851.7	834.8	841.4	826.7
85°	832.6	831.8	819.3	812.7	803.8	783.9	795.0	810.4	801.6	751.4	686.6
87.5°	786.1	783.9	774.3	770.6	753.7	751.4	761.8	767.7	771.4	726.4	671.8
90°	688.8	679.9	671.1	678.4	676.2	677.7	680.7	679.2	680.7	627.6	604.7
92.5°	574.5	572.2	565.6	569.3	574.5	595.1	586.3	572.2	570.0	548.7	526.5
95°	524.3	525.8	517.7	522.8	524.3	524.3	518.4	511.8	506.6	489.7	469.7
97.5°	434.3	427.7	424.8	428.4	429.9	424.8	421.1	410.0	409.3	392.3	382.7
100°	369.5	368.0	366.5	370.9	372.4	370.2	370.9	364.3	363.6	354.0	343.6
102.5°	345.1	344.4	343.6	347.3	348.8	347.3	345.1	338.5	340.0	329.6	322.3
105°	325.9	325.9	325.2	327.4	323.0	320.8	317.8	317.8	319.3	311.2	300.1
107.5°	304.6	303.8	304.6	303.8	298.7	296.4	295.7	293.5	298.7	294.2	282.4

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

Scaled Data Report

REPORT NUMBER: P1046401
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*308.2*	308.2	307.5	299.4	296.4	292.8	291.3	295.0	293.5	286.1	278.7
112.5°	*377.6*	373.1	376.1	365.0	359.9	362.8	364.3	367.2	373.1	361.3	350.3
115°	*421.8*	422.5	429.9	429.9	418.9	424.0	424.0	423.3	429.2	420.3	409.3
117.5°	*344.4*	348.8	372.4	357.7	361.3	364.3	345.9	339.2	337.7	340.0	363.6
120°	*396.7*	390.8	413.0	366.5	352.5	352.5	365.8	382.7	364.3	336.3	343.6
122.5°	*648.9*	649.7	650.4	670.3	668.1	674.0	663.7	650.4	612.1	612.8	578.1
125°	*993.3*	983.7	983.7	974.9	973.4	959.4	977.1	988.2	958.7	908.5	853.9
127.5°	*950.6*	971.2	963.8	941.7	920.3	912.9	933.6	968.3	951.3	907.0	856.9
130°	*674.8*	679.9	678.4	702.0	707.9	700.6	707.9	682.9	686.6	696.9	670.3
132.5°	*565.6*	562.7	573.0	605.4	618.0	603.2	582.6	564.1	564.9	587.0	585.5
135°	*487.4*	485.2	492.6	494.1	508.1	496.3	477.9	477.9	482.3	487.4	485.2
137.5°	*440.2*	437.3	439.5	422.5	405.6	404.9	419.6	427.7	423.3	418.1	412.2
140°	*379.0*	380.5	376.8	362.8	355.4	356.9	366.5	379.0	375.4	364.3	355.4
142.5°	*301.6*	298.7	303.1	313.4	328.2	328.2	313.4	297.9	297.2	302.3	309.7
145°	*297.2*	295.7	296.4	294.2	297.2	294.2	289.8	285.4	280.2	276.5	273.6
147.5°	*322.3*	322.3	321.5	317.8	314.9	309.7	311.2	316.4	319.3	316.4	311.9
150°	*261.8*	264.0	264.0	263.3	260.3	262.5	265.5	267.0	269.9	269.9	265.5
152.5°	*201.3*	200.6	202.8	199.8	199.1	200.6	204.3	207.2	208.0	208.0	202.1
155°	*191.7*	190.3	191.7	190.3	188.8	190.3	193.2	194.7	196.2	193.9	188.0
157.5°	*179.2*	179.2	179.2	177.7	178.5	178.5	179.9	180.7	181.4	180.7	179.2
160°	*169.6*	169.6	170.3	169.6	169.6	171.1	170.3	169.6	169.6	168.9	168.1
162.5°	*163.7*	163.7	163.7	163.7	163.0	163.0	163.7	163.0	162.2	161.5	163.0
165°	*160.8*	160.0	160.0	160.0	160.8	160.0	160.0	160.0	159.3	161.5	164.4
167.5°	*166.7*	165.2	165.9	166.7	166.7	165.9	165.9	165.9	167.4	169.6	171.8
170°	*174.8*	174.0	174.0	174.8	174.8	174.0	174.0	174.0	174.8	175.5	176.2
172.5°	*181.4*	180.7	180.7	180.7	179.9	179.2	179.2	179.2	179.2	179.2	179.9
175°	*188.0*	188.0	188.0	188.0	187.3	186.6	186.6	186.6	186.6	186.6	186.6
177.5°	*195.4*	194.7	195.4	194.7	194.7	194.7	193.9	193.2	192.5	192.5	192.5
180°	*193.9*	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9

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

Scaled Data Report

REPORT NUMBER: P1046401
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	75.2	74.5	70.1	66.4	63.4	60.5	56.0	52.4	49.4	48.7	48.7
5°	97.3	95.9	91.4	85.5	82.6	78.2	73.7	70.8	67.1	65.6	66.4
7.5°	134.2	135.0	136.4	139.4	137.9	125.4	111.4	108.4	111.4	115.8	118.0
10°	166.7	164.4	163.7	173.3	171.1	152.6	134.2	128.3	133.5	143.1	147.5
12.5°	193.2	188.8	188.0	189.5	180.7	160.8	145.3	138.6	141.6	149.0	148.2
15°	232.3	225.7	216.1	210.2	199.1	185.1	165.9	154.9	154.9	154.9	154.1
17.5°	255.2	247.8	229.3	212.4	198.4	188.0	175.5	165.2	154.1	152.6	151.9
20°	275.1	264.0	244.1	225.7	208.0	193.2	175.5	163.0	153.4	151.9	151.2
22.5°	292.0	281.7	260.3	238.2	216.1	199.1	179.9	166.7	157.1	154.1	153.4
25°	314.9	303.8	279.5	253.7	227.9	206.5	188.8	173.3	161.5	155.6	155.6
27.5°	337.7	325.2	297.9	271.4	243.4	216.8	196.9	181.4	166.7	158.5	157.8
30°	359.9	345.9	316.4	286.1	258.1	230.1	207.2	189.5	173.3	164.4	163.7
32.5°	390.8	374.6	340.0	302.3	274.3	244.1	218.3	197.6	180.7	171.8	170.3
35°	451.3	432.9	393.8	345.1	300.9	260.3	229.3	202.1	185.8	176.2	175.5
37.5°	563.4	542.0	487.4	427.7	367.2	306.0	249.3	208.0	189.5	180.7	179.2
40°	630.5	588.5	531.0	483.8	438.0	379.0	306.0	241.1	196.9	186.6	185.1
42.5°	717.5	674.0	590.7	500.7	442.5	396.0	344.4	302.3	238.9	202.1	195.4
45°	800.1	766.9	695.4	599.5	511.0	430.7	366.5	325.9	285.4	243.4	236.7
47.5°	938.8	890.1	795.7	697.6	607.6	517.7	441.7	362.8	310.5	285.4	283.9
50°	1294.2	1205.7	1069.3	952.0	782.4	644.5	554.6	449.1	382.0	342.9	330.4
52.5°	1753.6	1661.4	1505.8	1336.2	1148.2	970.5	794.2	643.0	533.9	465.3	467.5
55°	2438.0	2345.8	2117.2	1826.6	1568.5	1383.4	1194.6	1011.0	835.5	734.5	721.9
57.5°	3159.9	3077.3	2881.9	2527.2	2116.4	1774.3	1550.1	1420.3	1330.3	1220.5	1220.5
60°	3689.4	3552.2	3331.0	2973.3	2609.0	2159.2	1871.6	1685.8	1669.6	1650.4	1665.1
62°	*3960.0*	*3783.0*	*3467.4*	*3065.5*	*2727.0*	*2326.6*	*2047.1*	*1862.8*	*1830.3*	*1758.0*	*1759.5*
62.5°	4005.7	3810.3	3490.3	3065.5	2737.4	2341.4	2066.3	1886.4	1841.4	1752.9	1754.4
65°	4051.5	3816.2	3507.2	3016.1	2679.1	2290.5	2078.8	1844.3	1726.3	1578.1	1534.6
67.5°	3788.9	3547.8	3283.1	2804.5	2454.2	2078.8	1844.3	1609.1	1416.6	1266.2	1242.6
70°	3077.3	2887.8	2683.5	2317.8	2011.7	1707.9	1508.8	1296.4	1104.7	938.8	949.1
72.5°	2335.5	2158.5	1971.2	1738.9	1548.6	1344.3	1168.1	997.0	837.7	734.5	753.7
75°	1808.9	1690.9	1558.2	1389.3	1244.8	1056.0	855.4	703.5	595.8	533.2	536.9
77.5°	1487.4	1365.0	1256.6	1101.7	964.6	771.4	578.1	448.4	385.7	357.7	350.3
80°	1143.8	1054.5	958.7	820.0	668.9	519.9	388.6	328.2	286.9	266.2	258.1
82.5°	798.6	743.3	663.0	562.7	475.6	421.1	364.3	313.4	270.6	251.5	242.6
85°	657.8	628.3	584.0	527.3	475.6	415.2	351.8	300.1	263.3	248.5	240.4
87.5°	640.8	620.9	570.8	510.3	448.4	386.4	322.3	274.3	250.7	241.1	233.8
90°	587.7	564.9	529.5	469.7	414.4	348.1	295.7	267.0	249.3	238.2	230.1
92.5°	512.5	500.0	467.5	424.8	386.4	343.6	306.0	280.2	261.8	248.5	240.4
95°	455.7	441.0	422.5	387.9	356.2	321.5	286.9	262.5	243.4	229.3	222.7
97.5°	374.6	364.3	346.6	323.7	300.1	272.1	247.8	231.6	219.0	212.4	208.0
100°	340.0	333.3	323.0	306.8	287.6	267.7	250.0	241.1	236.0	231.6	229.3
102.5°	314.9	307.5	299.4	282.4	267.7	250.0	238.2	230.8	224.2	216.8	215.3
105°	292.8	286.9	275.8	261.8	247.0	230.1	216.1	211.6	205.7	199.1	198.4
107.5°	275.8	269.9	260.3	245.6	232.3	217.5	205.0	198.4	191.7	188.0	187.3

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

Scaled Data Report

REPORT NUMBER: P1046401
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	274.3	269.9	259.6	247.0	236.7	222.0	208.0	205.7	198.4	189.5	188.8
112.5°	342.2	328.2	308.2	287.6	269.9	255.2	237.5	219.8	205.0	196.2	194.7
115°	396.7	382.7	358.4	328.2	300.1	268.4	238.2	216.1	208.0	205.7	208.7
117.5°	373.1	343.6	302.3	283.9	259.6	242.6	230.8	225.7	212.4	216.1	219.8
120°	358.4	338.5	302.3	299.4	288.3	269.2	241.9	236.0	228.6	222.7	222.0
122.5°	575.9	556.8	515.5	452.8	384.9	339.2	322.3	286.9	244.1	211.6	206.5
125°	816.3	785.4	704.2	634.9	545.0	448.4	361.3	286.9	228.6	197.6	193.9
127.5°	832.6	797.9	727.1	633.5	519.2	401.2	311.2	257.4	218.3	197.6	193.9
130°	648.9	626.8	574.5	486.7	407.8	337.7	286.9	243.4	208.0	192.5	190.3
132.5°	573.7	553.8	479.3	406.3	354.0	300.1	257.4	216.1	185.8	175.5	174.0
135°	474.2	452.0	402.6	357.7	319.3	275.8	233.0	197.6	176.2	171.1	170.3
137.5°	404.9	394.5	357.7	325.9	291.3	253.7	218.3	191.0	177.7	173.3	172.6
140°	349.5	347.3	324.5	296.4	261.8	222.0	194.7	178.5	173.3	171.1	170.3
142.5°	309.0	306.0	281.0	248.5	217.5	196.9	186.6	181.4	177.0	171.1	169.6
145°	267.7	262.5	247.0	233.0	223.4	216.8	207.2	191.0	174.0	165.2	164.4
147.5°	304.6	295.7	278.7	258.8	238.2	216.8	196.9	179.9	165.9	160.8	160.0
150°	255.9	255.2	244.1	228.6	213.1	193.9	179.2	168.1	162.2	161.5	161.5
152.5°	198.4	198.4	198.4	194.7	187.3	177.0	165.9	159.3	159.3	162.2	163.0
155°	186.6	187.3	188.0	186.6	180.7	171.1	161.5	158.5	159.3	162.2	163.0
157.5°	177.7	177.7	178.5	177.0	174.0	167.4	160.8	157.8	158.5	160.0	160.8
160°	167.4	167.4	168.1	168.1	165.2	163.0	160.0	157.8	157.8	158.5	159.3
162.5°	163.7	163.7	163.7	163.7	163.0	163.0	163.0	163.0	162.2	162.2	162.2
165°	165.2	165.2	163.0	162.2	163.7	165.9	169.6	170.3	166.7	165.9	165.9
167.5°	172.6	172.6	170.3	168.9	171.1	173.3	178.5	179.9	177.0	174.0	174.0
170°	177.0	177.0	177.0	177.7	178.5	180.7	183.6	185.1	184.4	183.6	183.6
172.5°	179.9	179.9	181.4	182.9	185.1	186.6	188.0	189.5	191.0	191.0	191.7
175°	185.8	186.6	188.0	188.8	190.3	191.7	193.2	194.7	195.4	195.4	195.4
177.5°	191.7	191.7	191.7	192.5	193.2	193.9	194.7	195.4	195.4	196.2	196.9
180°	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9

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: SP1-2501-332-5

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

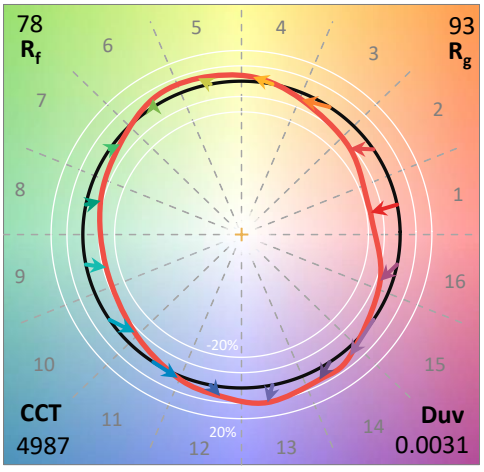
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
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-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	4987	CRI (Ra):	75.8		
CIE u':	0.2094	R1:	71.6	R9:	-30.4
CIE v':	0.4882	R2:	82.8	R10:	59.9
Duv:	0.0031	R3:	91.2	R11:	70.9
CIE x:	0.3461	R4:	73.8	R12:	51.2
CIE y:	0.3586	R5:	73.0	R13:	74.2
CIE z:	0.2954	R6:	76.1	R14:	95.3
Peak Wavelength (nm):	450	R7:	82.9	R15:	63.7
Dominant Wavelength (nm):	570	R8:	54.9		
Purity:	11.4				

Rf:	78.3
Rg:	93.4



Test Conditions

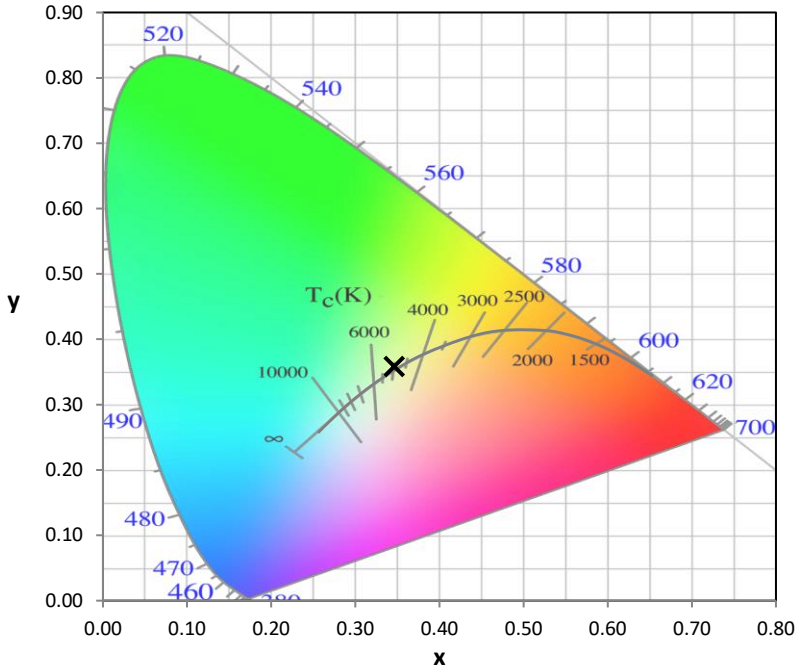
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

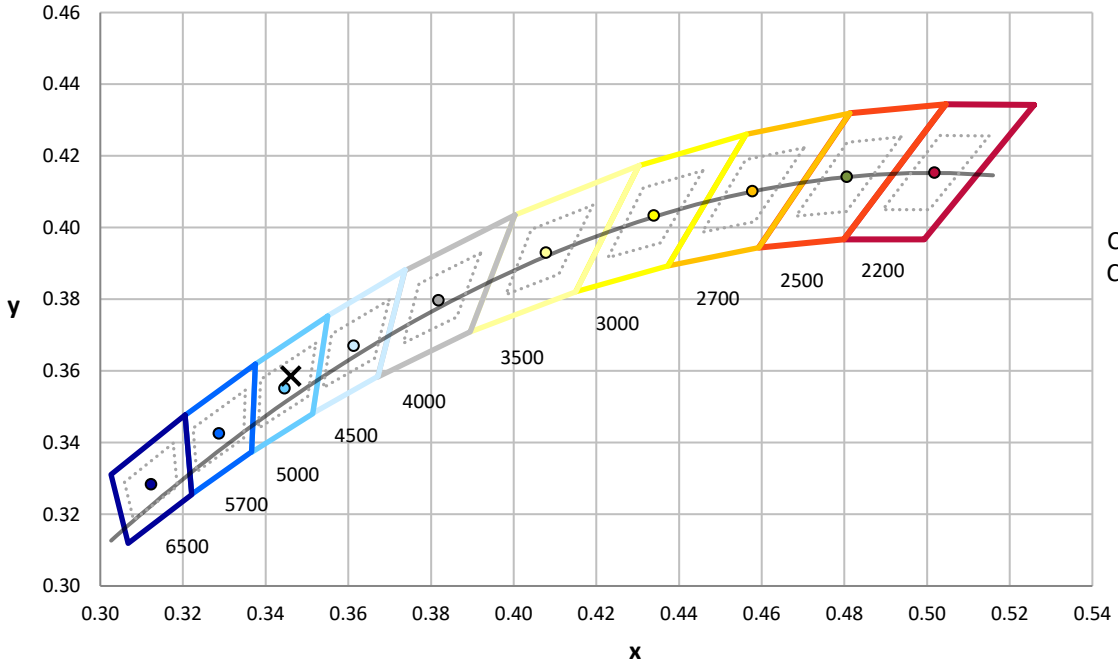
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

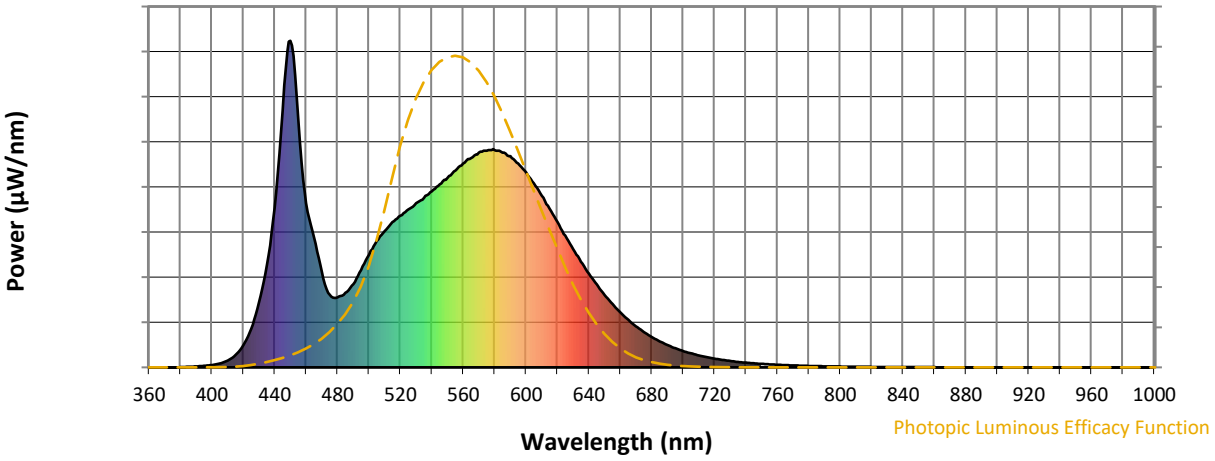


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

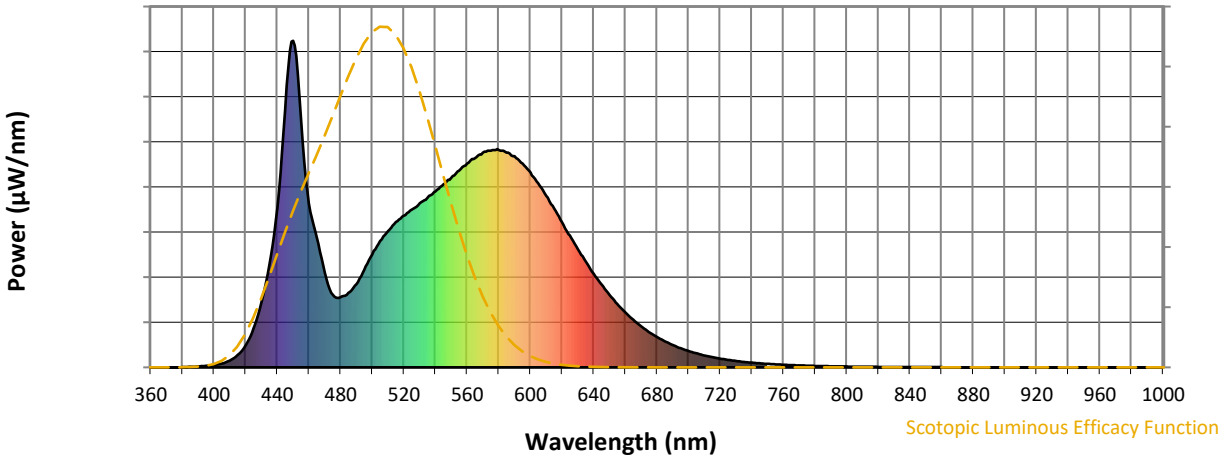


Photopic Lumens: NR

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

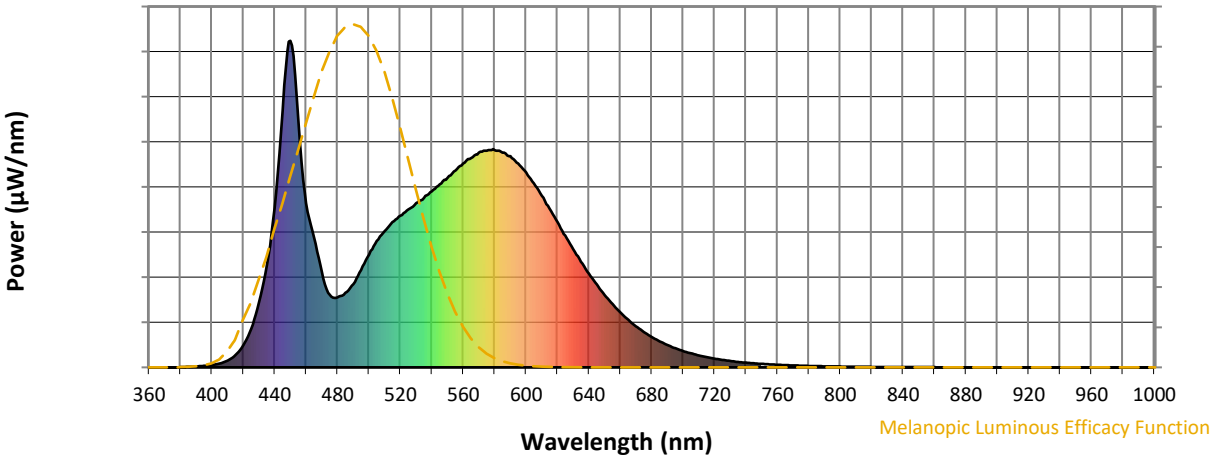


Scotopic Lumens: NR **S/P: 1.87**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.92**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

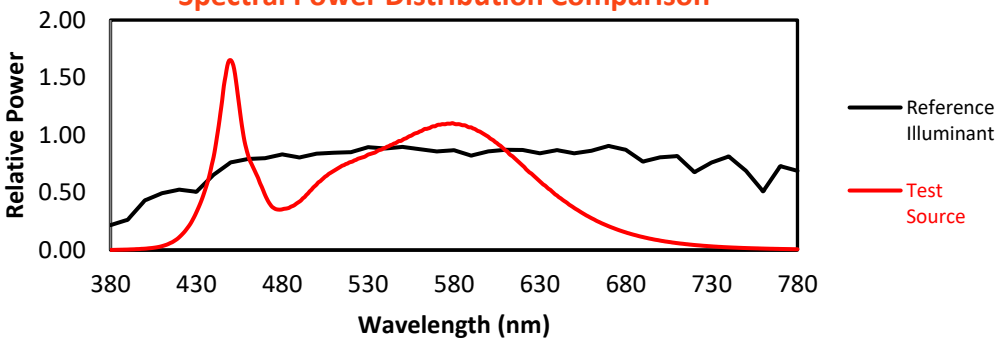
REPORT NUMBER: SP1-2501-332-5

TM-30-18

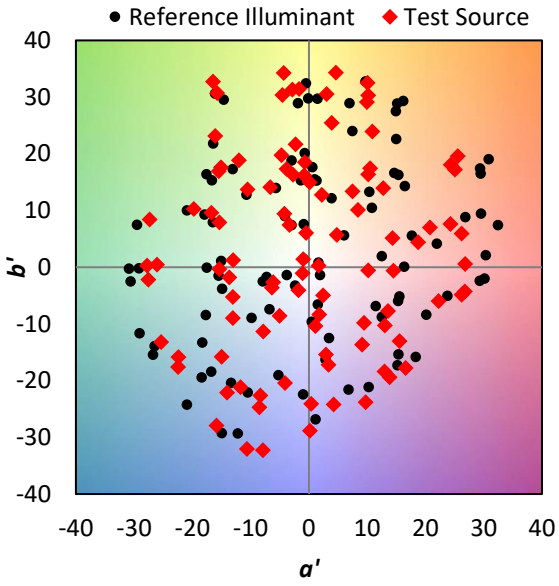
Summary

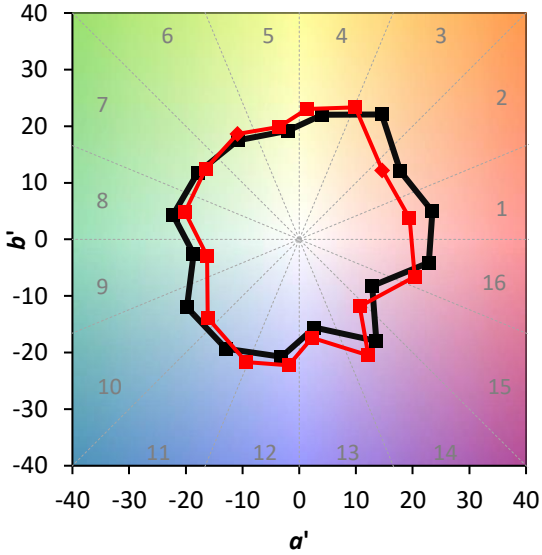
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

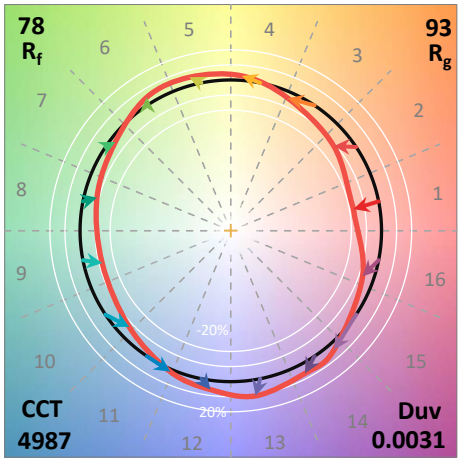
Spectral Power Distribution Comparison

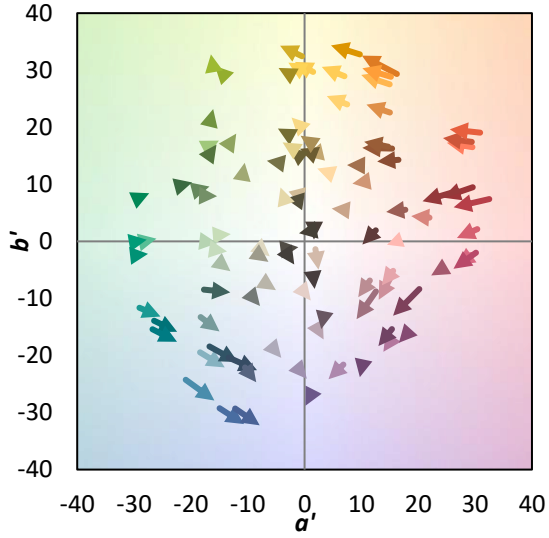


Color Vector Graphics







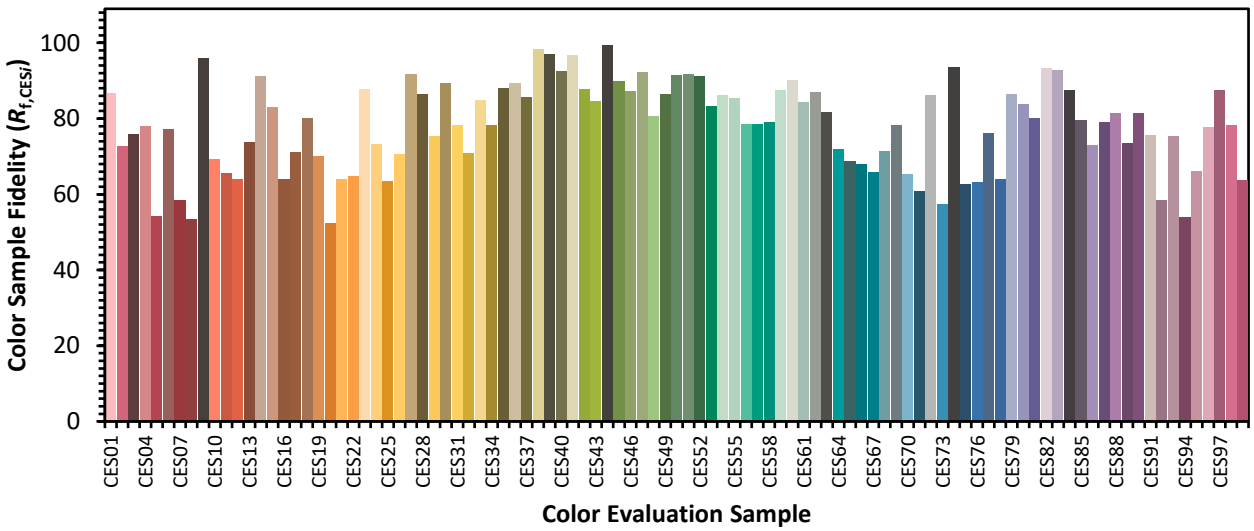


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

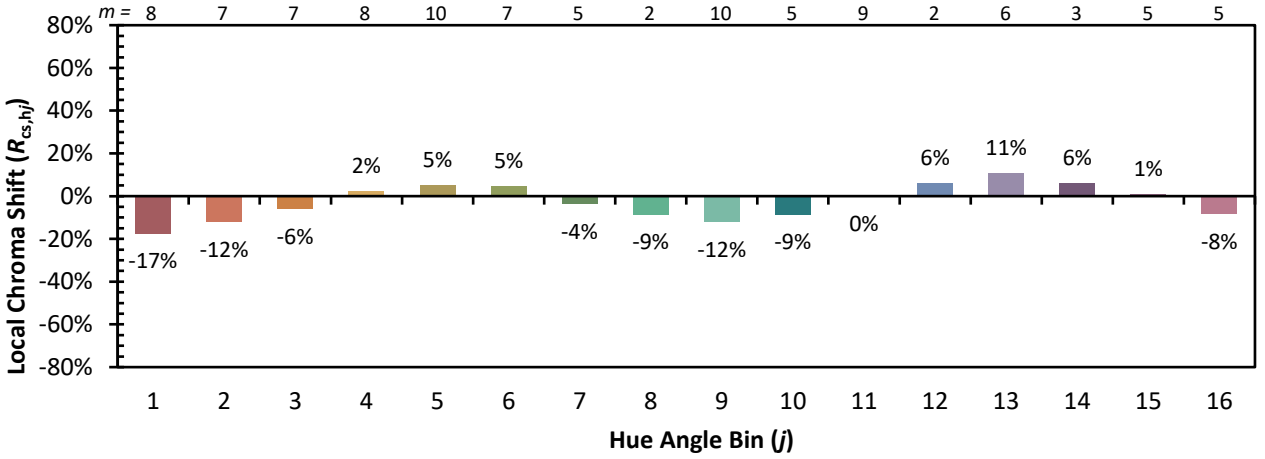
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 85	CES58 = 79	CES83 = 93
CES09 = 29	CES34 = 78	CES59 = 88	CES84 = 87
CES10 = 73	CES35 = 88	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 89	CES61 = 84	CES86 = 73
CES12 = 61	CES37 = 86	CES62 = 87	CES87 = 79
CES13 = 41	CES38 = 98	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 93	CES65 = 69	CES90 = 81
CES16 = 46	CES41 = 97	CES66 = 68	CES91 = 76
CES17 = 49	CES42 = 88	CES67 = 66	CES92 = 58
CES18 = 55	CES43 = 85	CES68 = 71	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 90	CES70 = 65	CES95 = 66
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 92	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 81	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 91	CES75 = 63	

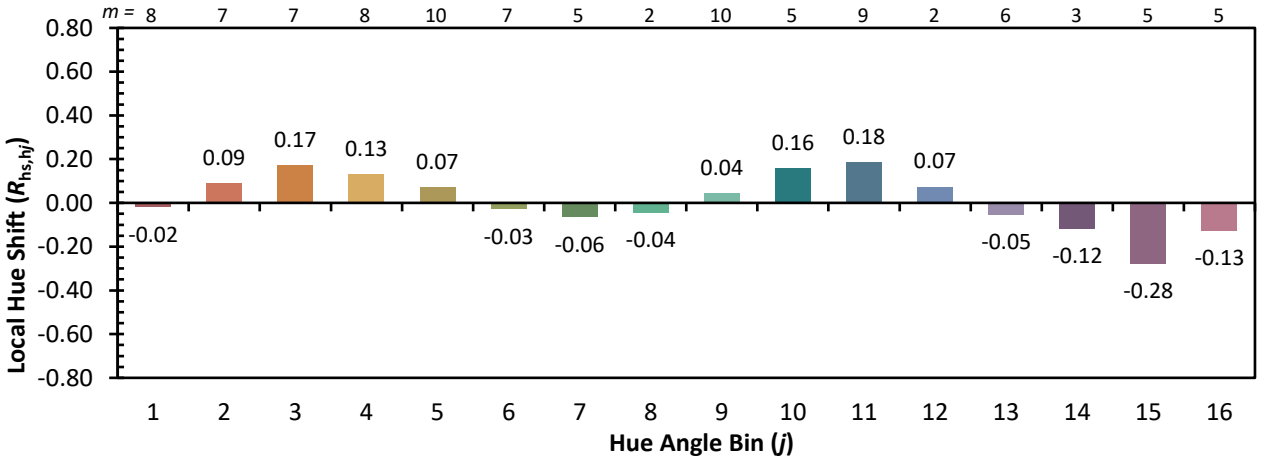


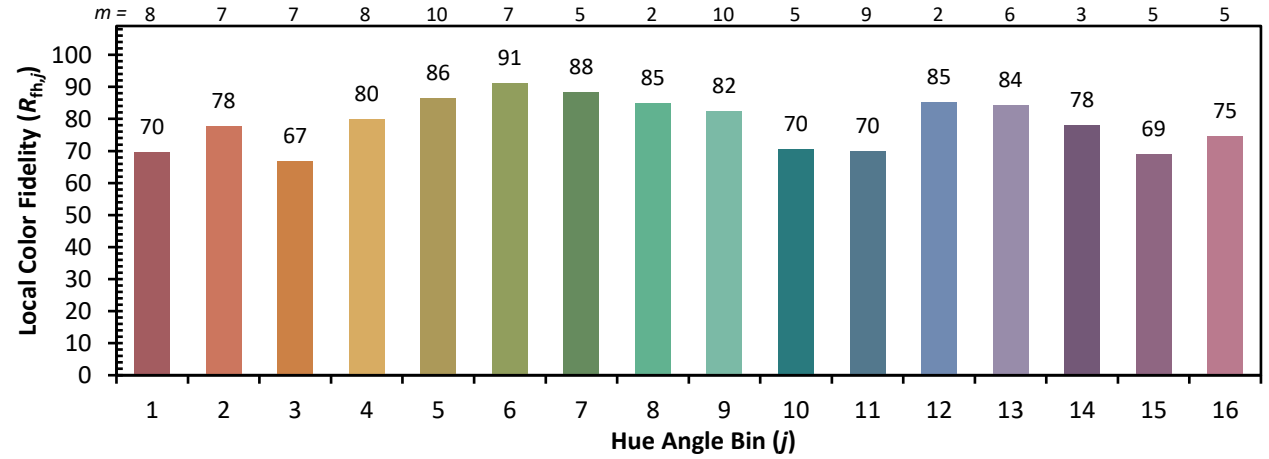
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



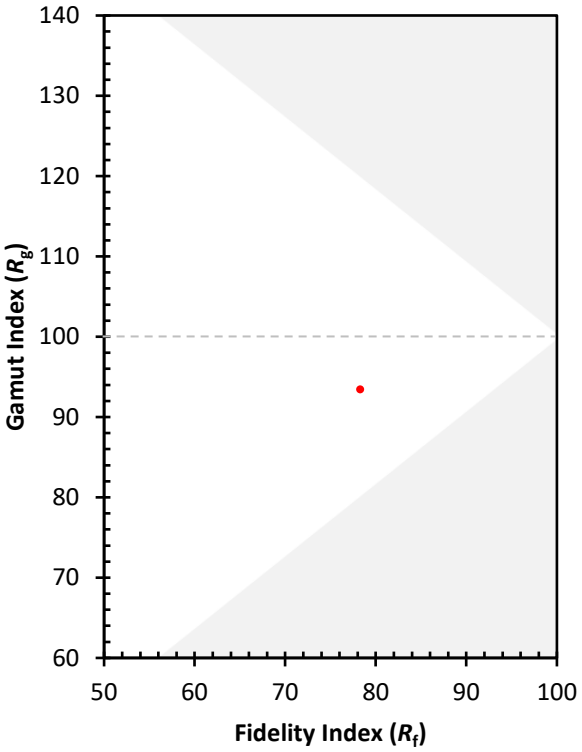


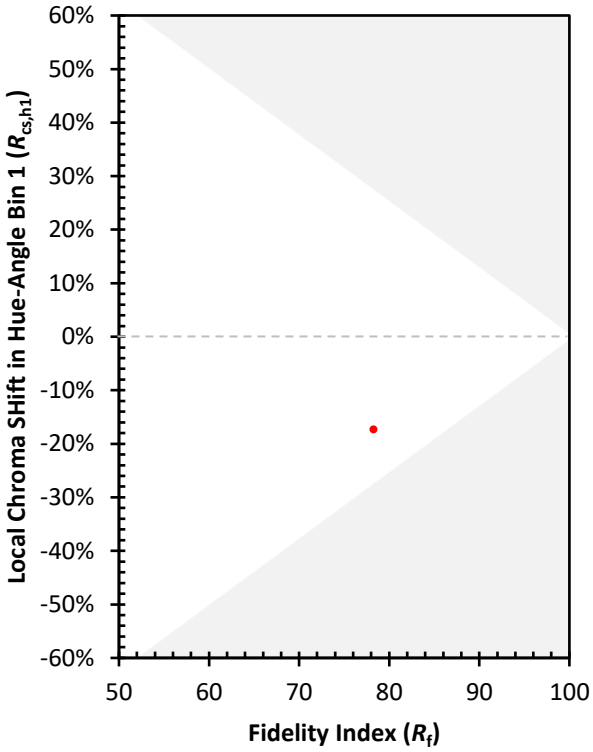


REPORT NUMBER: SP1-2501-332-5

TM-30-18

Measure Comparisons





(END OF REPORT)