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: P981479

Luminaire Tested: **FFX-CLB-90-740-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981479
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-740-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14279 lumens
Efficiency:	N/A
Efficacy:	157.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U5 - G4

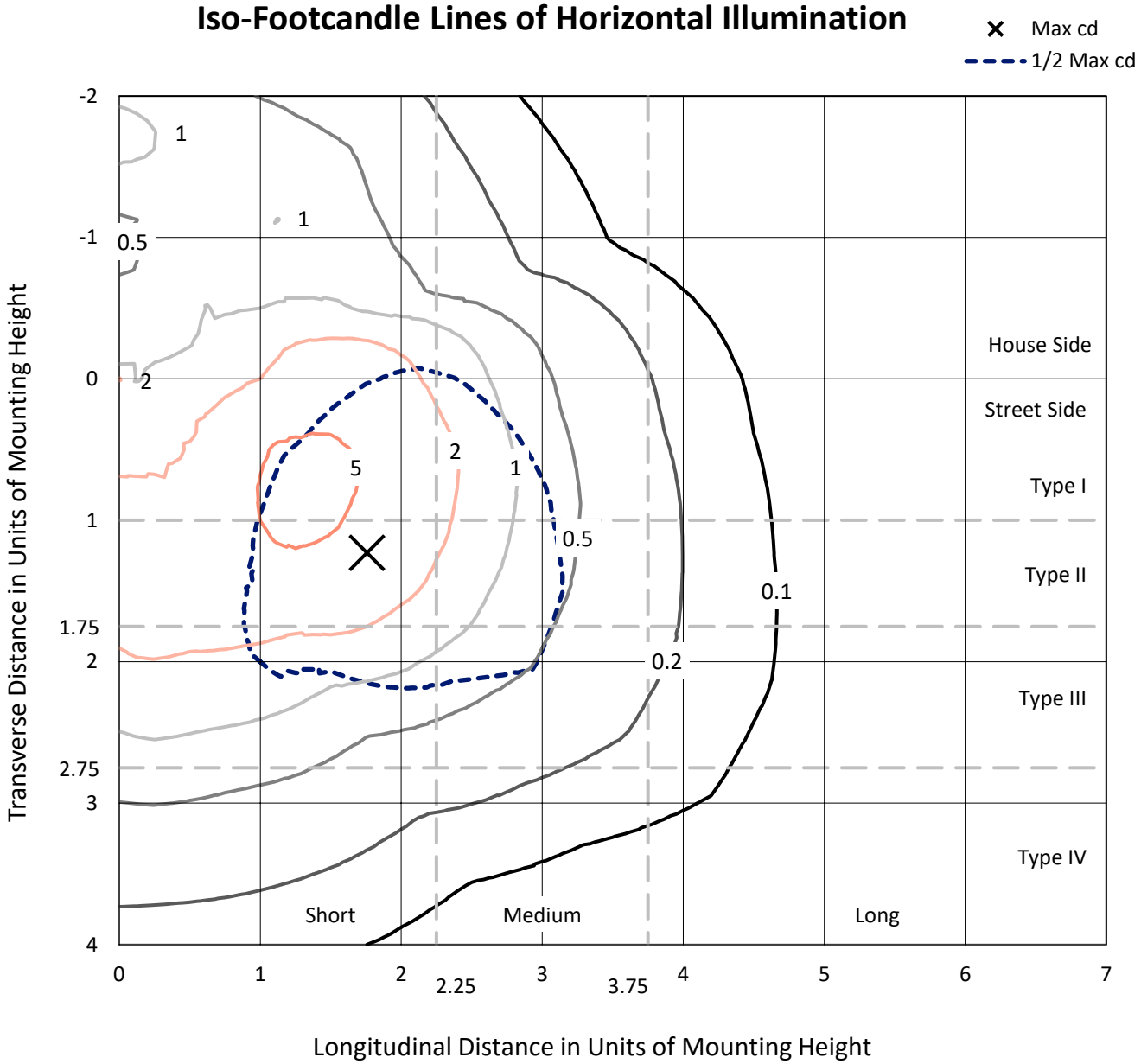
Input Watts (W):	90.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	5.42%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



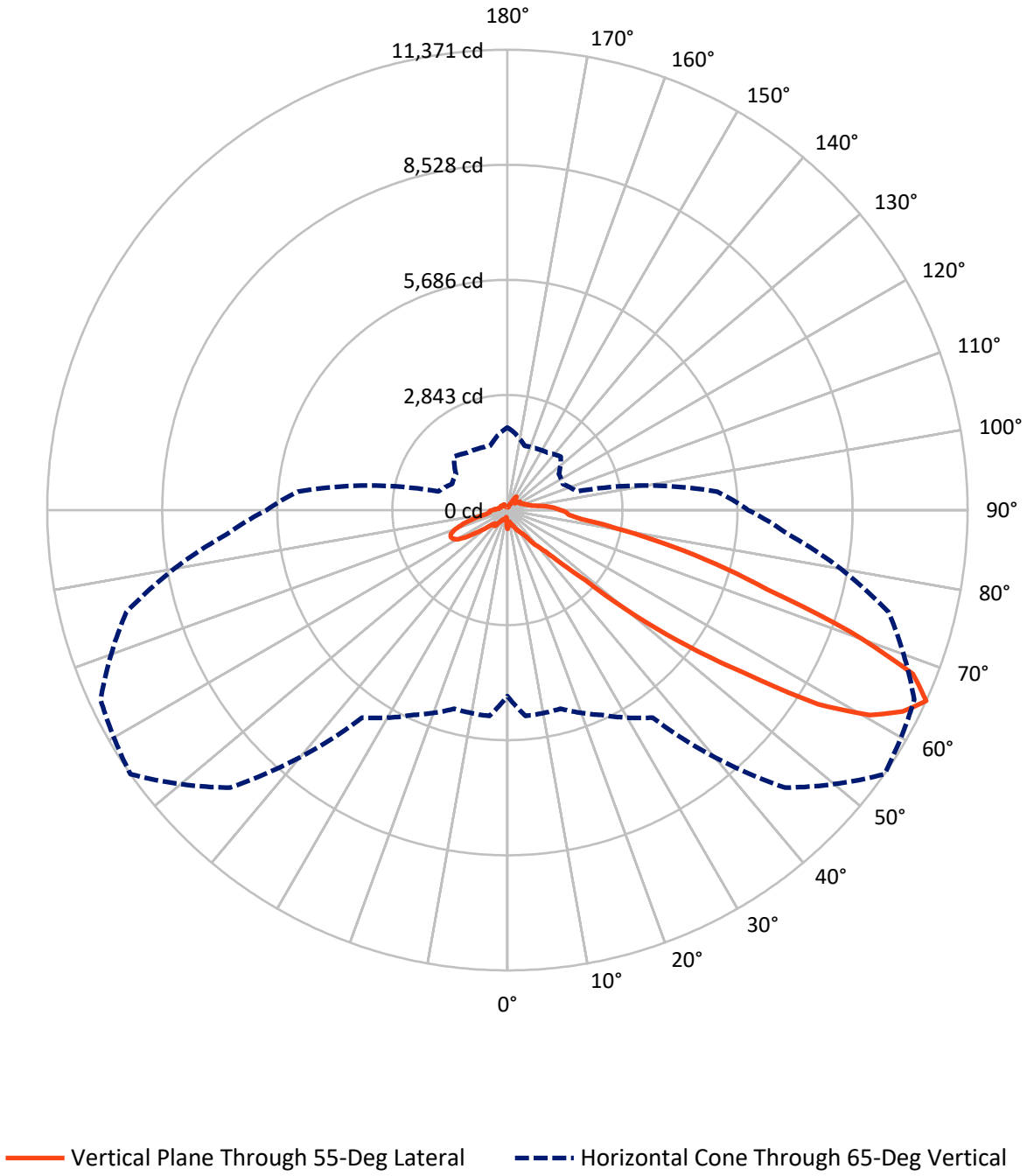
Based on 15 foot mounting height. Maximum calculated value = 6.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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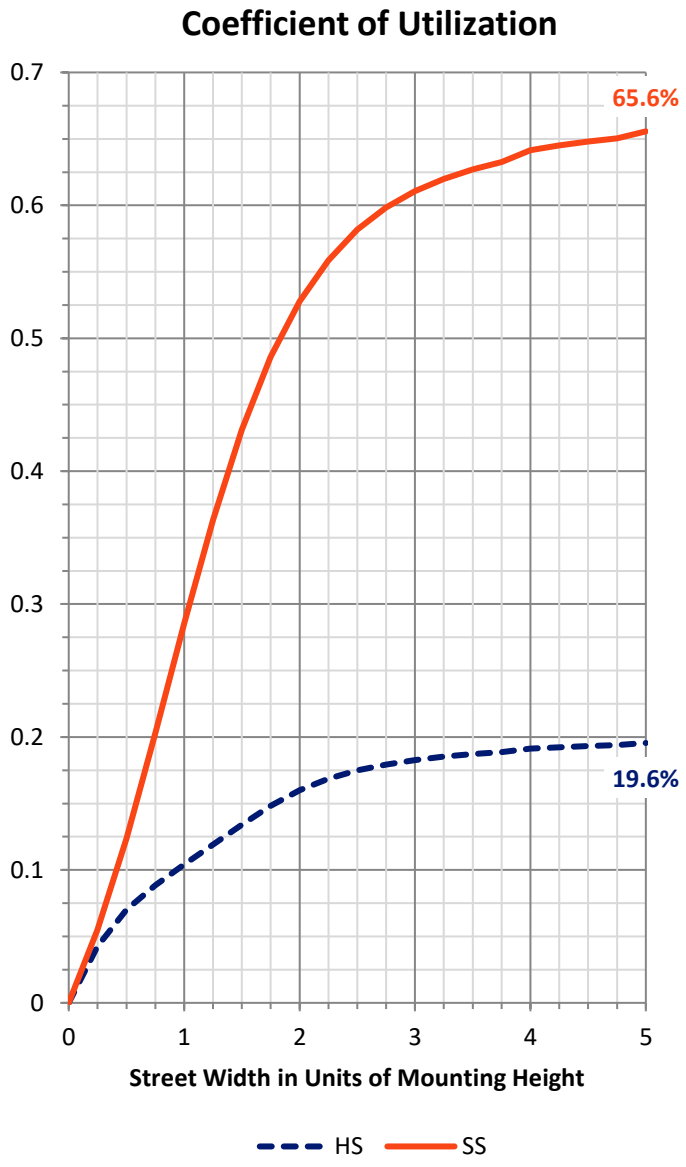
REPORT NUMBER: P981479
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2900.8	566.0	3466.8
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	9679.4	1132.7	10812.2
	% Fixture	67.8	7.9	75.7
Total	Lumens	12580.2	1698.8	14279.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	0.2
10°-20°	87.3	0.6
20°-30°	178.5	1.3
30°-40°	387.1	2.7
40°-50°	939.4	6.6
50°-60°	2932.7	20.5
60°-70°	4660.1	32.6
70°-80°	2483.4	17.4
80°-90°	884.9	6.2
90°-100°	538.3	3.8
100°-110°	318.7	2.2
110°-120°	248.8	1.7
120°-130°	207.5	1.5
130°-140°	151.7	1.1
140°-150°	139.5	1.0
150°-160°	63.0	0.4
160°-170°	24.1	0.2
170°-180°	7.1	0.0
0°-90°	12580.2	88.1
0°-180°	14279.0	100.0



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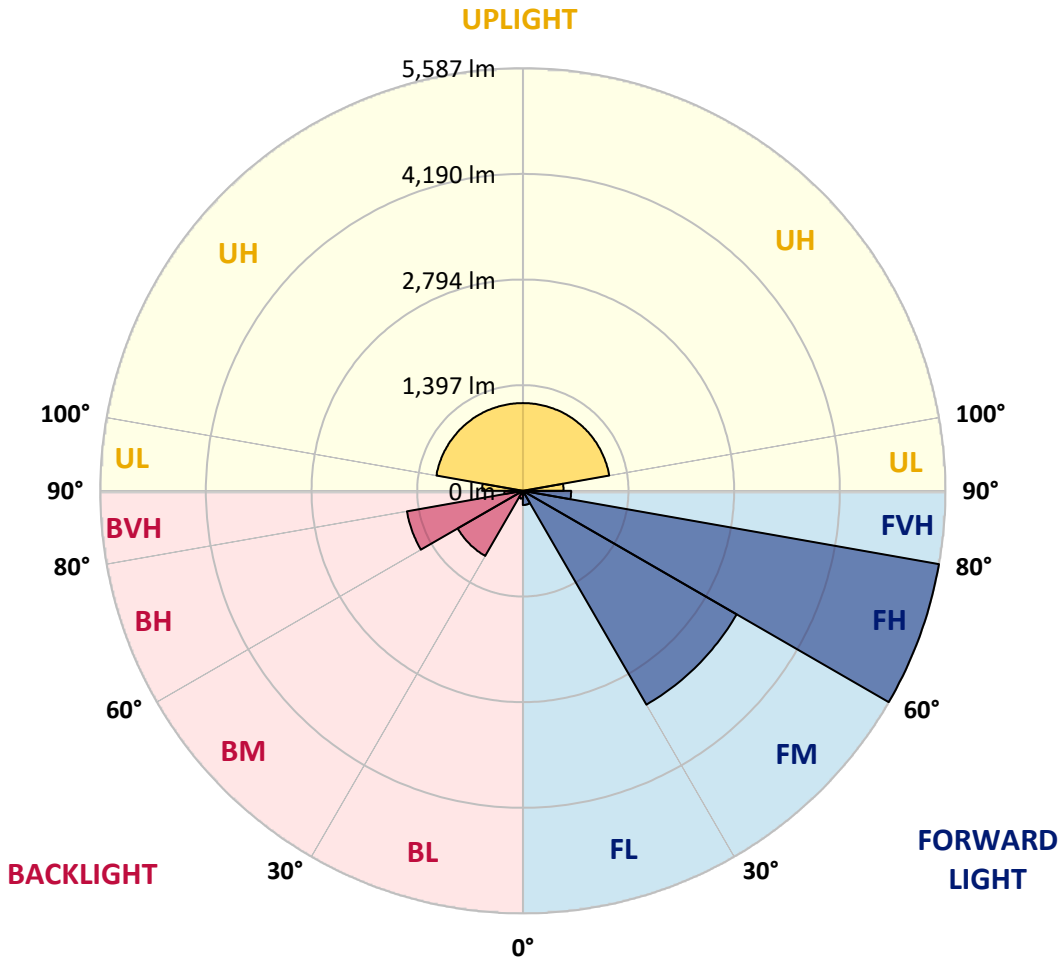
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	188.7	1.3			
FM	(30°-60°)	3265.0	22.9			
FH	(60°-80°)	5587.3	39.1			G3/7500
FVH	(80°-90°)	638.5	4.5			G4/750
BL	(0°-30°)	103.9	0.7	B0/110		
BM	(30°-60°)	994.3	7.0	B1/1000		
BH	(60°-80°)	1556.2	10.9	B3/2500		G3/2500
BVH	(80°-90°)	246.4	1.7			G3/500
UL	(90°-100°)	538.3	3.8		U4/1000	
UH	(100°-180°)	1160.4	8.1		U5	

BUG Rating: B3-U5-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3
2.5°	276.6	278.6	309.5	333.7	363.7	355.0	355.0	420.7	464.3	528.1	522.3
5°	296.0	283.4	289.2	310.5	351.1	370.4	349.2	276.6	229.2	248.6	271.8
7.5°	324.0	321.1	314.3	294.0	278.6	320.1	378.2	336.6	254.4	213.7	205.0
10°	331.7	332.7	330.8	332.7	340.5	322.1	289.2	263.1	255.3	251.5	248.6
12.5°	401.4	400.4	404.3	399.5	381.1	358.8	365.6	346.3	308.5	282.4	275.7
15°	468.1	466.2	465.2	446.8	416.9	381.1	363.7	372.4	348.2	318.2	304.7
17.5°	495.2	495.2	475.9	449.7	431.4	406.2	392.7	383.0	364.6	345.3	328.8
20°	484.6	483.6	464.3	453.6	455.5	443.9	432.3	417.8	399.5	368.5	348.2
22.5°	478.8	478.8	472.0	469.1	485.5	481.7	478.8	460.4	436.2	390.7	364.6
25°	516.5	513.6	504.9	504.9	520.4	532.9	537.8	523.3	483.6	414.9	390.7
27.5°	553.2	552.3	540.7	543.6	553.2	578.4	586.1	579.3	525.2	435.2	414.0
30°	597.7	591.0	581.3	598.7	596.8	631.6	642.2	650.0	581.3	476.8	451.7
32.5°	645.1	641.2	633.5	655.8	663.5	695.4	704.1	742.8	657.7	551.3	525.2
35°	725.4	722.5	742.8	786.3	785.4	845.3	822.1	880.1	799.9	685.7	659.6
37.5°	1087.1	1070.7	1047.5	1005.9	1003.0	1086.2	1060.0	1105.5	992.3	831.8	802.8
40°	1131.6	1128.7	1118.1	1070.7	1043.6	1185.8	1203.2	1337.6	1151.0	967.2	911.1
42.5°	1105.5	1109.4	1251.5	1281.5	1226.4	1401.5	1430.5	1666.5	1329.9	1173.2	1070.7
45°	1332.8	1338.6	1385.0	1406.3	1402.4	1842.5	1914.1	2203.3	1643.3	1462.4	1272.8
47.5°	1526.2	1505.9	1590.1	1752.6	1863.8	2360.9	2591.1	3035.1	2208.1	1941.2	1590.1
50°	2096.9	2092.0	2295.2	2473.1	2583.4	3396.8	4105.7	4593.2	3236.2	2814.5	2218.7
52.5°	2483.8	2648.2	2842.6	3254.6	3354.2	4622.2	5581.7	5972.4	4472.3	3696.6	3029.3
55°	2876.4	3113.4	3331.0	3972.3	4303.0	6005.3	7097.3	7204.6	5873.8	4494.5	3822.3
57.5°	3606.7	4006.1	4146.4	4658.0	5141.6	7599.2	9047.1	8933.0	7318.8	5420.2	4708.3
60°	4267.3	4748.0	4707.3	5208.3	5830.2	8898.2	10285.1	10165.2	8640.9	6242.3	5389.2
62.5°	4488.7	4973.3	4918.2	5463.7	6258.7	9594.6	10960.2	10755.2	9506.5	6769.4	5766.4
65°	4592.2	5106.8	5079.7	5588.4	6258.7	9695.1	11371.3	11090.8	9748.3	6972.5	5948.2
67.5°	4501.3	4997.5	5014.9	5466.6	5890.2	8968.8	10810.3	10429.2	9142.9	6485.0	5623.3
70°	3934.5	4281.8	4238.2	4647.4	4689.0	7179.5	8971.7	8556.8	7428.0	5407.6	4653.2
72.5°	3250.7	3334.9	3299.1	3557.3	3605.7	5258.6	6705.6	6470.5	5546.9	4023.5	3555.4
75°	2592.1	2578.5	2652.0	2712.0	2661.7	3860.1	5309.9	5042.9	4103.8	3030.2	2736.2
77.5°	1793.2	1689.7	1883.1	1901.5	1822.2	2566.9	3917.1	3815.6	2941.2	2233.3	2016.6
80°	1007.8	1019.4	1157.7	1239.9	1210.9	1633.6	2725.6	2658.8	2008.9	1561.1	1387.0
82.5°	777.6	812.4	877.2	939.1	898.5	1249.6	1843.5	1848.3	1469.2	1140.3	1041.7
85°	855.0	873.4	882.1	884.0	852.1	1161.6	1528.2	1507.9	1247.7	954.6	923.7
87.5°	833.7	853.1	856.0	856.9	828.9	1106.5	1446.9	1415.0	1189.6	916.9	869.5
90°	714.8	747.6	751.5	776.7	743.8	988.5	1273.8	1241.9	1072.6	827.0	782.5
92.5°	614.2	631.6	650.0	679.9	645.1	860.8	1140.3	1100.7	960.4	747.6	686.7
95°	561.9	571.6	587.1	598.7	558.1	731.2	953.7	912.1	779.6	601.6	547.4
97.5°	451.7	460.4	467.2	481.7	453.6	579.3	739.9	701.2	611.3	478.8	438.1
100°	385.9	391.7	399.5	409.1	385.9	485.5	607.4	590.0	508.7	404.3	378.2
102.5°	353.0	357.9	371.4	371.4	356.9	443.9	542.6	529.1	457.5	366.6	349.2
105°	340.5	341.4	353.0	348.2	338.5	414.0	505.8	488.4	428.5	348.2	327.9
107.5°	324.0	325.0	339.5	331.7	324.0	384.0	458.4	450.7	396.5	325.0	307.6
110°	307.6	310.5	328.8	322.1	317.2	360.8	429.4	414.9	379.1	314.3	299.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	295.0	296.9	314.3	309.5	305.6	345.3	*398.5*	398.5	370.4	314.3	295.0
115°	284.4	288.2	302.7	293.1	286.3	325.0	*367.5*	369.5	346.3	299.8	280.5
117.5°	266.0	274.7	282.4	286.3	278.6	311.4	*349.2*	347.2	334.6	289.2	275.7
120°	302.7	296.0	301.8	308.5	296.0	322.1	*354.0*	354.0	341.4	284.4	272.7
122.5°	316.3	306.6	312.4	305.6	304.7	338.5	*378.2*	381.1	355.0	293.1	264.0
125°	280.5	276.6	269.8	267.9	275.7	307.6	*343.4*	355.9	327.9	280.5	246.6
127.5°	239.9	235.0	226.3	231.2	245.7	277.6	*296.0*	302.7	291.1	260.2	235.0
130°	221.5	220.5	227.3	236.0	247.6	274.7	*280.5*	290.2	290.2	253.4	238.9
132.5°	202.1	203.1	224.4	254.4	263.1	268.9	*256.3*	274.7	283.4	258.2	241.8
135°	199.2	200.2	211.8	236.0	237.0	240.8	*241.8*	265.0	270.8	246.6	228.3
137.5°	217.6	217.6	208.9	213.7	224.4	253.4	*263.1*	281.5	276.6	233.1	206.0
140°	239.9	235.0	207.9	208.9	227.3	263.1	*275.7*	287.3	281.5	228.3	196.3
142.5°	198.3	200.2	205.0	223.4	244.7	325.9	*315.3*	344.3	332.7	241.8	191.5
145°	309.5	310.5	304.7	312.4	325.9	433.3	*400.4*	446.8	460.4	316.3	227.3
147.5°	338.5	342.4	331.7	325.0	363.7	396.5	*359.8*	398.5	424.6	331.7	243.7
150°	264.0	263.1	256.3	266.0	292.1	290.2	*270.8*	284.4	295.0	253.4	208.9
152.5°	187.6	184.7	180.9	181.8	212.8	205.0	*199.2*	210.8	210.8	194.4	167.3
155°	155.7	155.7	153.8	158.6	176.0	162.5	*157.7*	155.7	153.8	148.9	138.3
157.5°	131.5	134.4	131.5	137.3	148.9	136.4	*133.5*	130.6	131.5	131.5	128.6
160°	109.3	109.3	107.4	117.0	120.9	111.2	*106.4*	104.5	104.5	110.3	110.3
162.5°	91.9	91.9	92.9	96.7	99.6	92.9	*89.9*	89.9	92.9	101.6	101.6
165°	79.3	79.3	80.3	83.2	85.1	81.2	*79.3*	80.3	88.0	95.8	95.8
167.5°	72.5	72.5	72.5	73.5	74.5	72.5	*72.5*	76.4	83.2	88.0	88.0
170°	68.7	68.7	67.7	68.7	68.7	68.7	*72.5*	76.4	79.3	79.3	79.3
172.5°	69.6	69.6	68.7	69.6	69.6	68.7	*73.5*	78.3	76.4	75.4	75.4
175°	71.6	71.6	71.6	72.5	72.5	70.6	*69.6*	71.6	73.5	73.5	72.5
177.5°	71.6	71.6	70.6	71.6	70.6	68.7	*67.7*	66.7	66.7	65.8	65.8
180°	66.7	66.7	66.7	66.7	66.7	66.7	*66.7*	66.7	66.7	66.7	66.7

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3
2.5°	473.0	408.2	359.8	397.5	480.7	522.3	480.7	365.6	257.3	225.4
5°	283.4	275.7	248.6	242.8	253.4	243.7	270.8	256.3	203.1	205.0
7.5°	211.8	256.3	247.6	177.0	165.4	154.8	163.5	186.7	192.5	179.9
10°	245.7	221.5	193.4	179.9	196.3	211.8	201.2	175.1	150.9	144.1
12.5°	270.8	268.9	271.8	243.7	200.2	184.7	178.9	192.5	234.1	243.7
15°	291.1	268.9	248.6	242.8	213.7	198.3	190.5	186.7	178.9	173.1
17.5°	311.4	274.7	252.4	230.2	215.7	201.2	184.7	176.0	175.1	176.0
20°	325.0	291.1	265.0	239.9	221.5	202.1	185.7	178.0	178.0	178.0
22.5°	341.4	308.5	280.5	248.6	227.3	206.0	192.5	184.7	183.8	183.8
25°	368.5	331.7	298.9	264.0	240.8	221.5	203.1	193.4	190.5	189.6
27.5°	399.5	358.8	319.2	283.4	259.2	237.9	213.7	199.2	195.4	194.4
30°	439.1	392.7	342.4	304.7	274.7	254.4	225.4	207.9	200.2	199.2
32.5°	503.9	443.0	377.2	335.6	299.8	272.7	240.8	219.6	207.0	204.1
35°	628.7	554.2	455.5	395.6	338.5	296.0	254.4	226.3	213.7	211.8
37.5°	768.0	654.8	559.0	489.4	419.8	348.2	275.7	237.0	221.5	218.6
40°	827.9	720.6	619.0	509.7	494.2	438.1	338.5	263.1	232.1	227.3
42.5°	959.5	806.6	669.3	450.7	486.5	483.6	417.8	322.1	261.1	249.5
45°	1129.7	917.9	744.7	481.7	490.4	473.0	428.5	372.4	317.2	304.7
47.5°	1407.3	1026.2	768.9	541.6	551.3	509.7	448.8	392.7	353.0	348.2
50°	2009.8	1344.4	857.9	655.8	686.7	591.0	515.5	467.2	419.8	411.1
52.5°	2732.3	1593.0	949.8	818.2	929.5	792.1	678.0	589.0	586.1	574.5
55°	3493.5	1688.7	1071.7	997.2	1170.3	1051.3	940.1	858.9	900.5	904.3
57.5°	4348.5	1791.2	1247.7	1231.2	1462.4	1272.8	1179.0	1201.3	1496.2	1611.3
60°	4918.2	1875.4	1399.5	1424.7	1729.3	1544.6	1474.0	1523.3	2024.3	2234.2
62.5°	5171.6	1832.8	1474.0	1517.5	1844.4	1710.0	1698.4	1724.5	2149.1	2345.4
65°	*5206.4*	*1770.0*	*1514.6*	*1552.3*	*1864.7*	*1727.4*	*1678.1*	*1641.3*	*1923.7*	*2038.8*
67.5°	4778.9	1636.5	1482.7	1522.4	1772.9	1608.4	1485.6	1402.4	1565.9	1577.5
70°	3889.1	1461.4	1374.4	1388.9	1514.6	1346.3	1230.3	1158.7	1196.4	1180.9
72.5°	3015.7	1288.3	1224.5	1190.6	1228.3	1084.2	946.9	910.1	945.9	929.5
75°	2291.3	1151.0	1080.4	966.2	1028.1	834.7	681.9	649.0	664.5	642.2
77.5°	1684.9	927.5	845.3	714.8	799.9	605.5	460.4	426.5	432.3	411.1
80°	1229.3	685.7	618.0	512.6	576.4	430.4	332.7	326.9	325.9	312.4
82.5°	949.8	544.5	494.2	441.0	451.7	380.1	315.3	305.6	305.6	285.3
85°	881.1	527.1	475.9	438.1	441.0	368.5	299.8	294.0	296.9	275.7
87.5°	823.1	515.5	473.9	428.5	406.2	333.7	269.8	276.6	278.6	260.2
90°	706.1	458.4	420.7	377.2	351.1	283.4	241.8	254.4	256.3	239.9
92.5°	619.0	393.6	361.7	327.9	316.3	266.0	232.1	241.8	241.8	227.3
95°	493.3	322.1	307.6	291.1	288.2	248.6	216.7	221.5	219.6	207.0
97.5°	401.4	279.5	266.9	251.5	241.8	212.8	190.5	195.4	196.3	187.6
100°	353.0	258.2	240.8	223.4	213.7	191.5	174.1	182.8	188.6	180.9
102.5°	329.8	246.6	227.3	208.9	201.2	180.9	164.4	172.2	179.9	173.1
105°	313.4	237.9	217.6	201.2	191.5	171.2	154.8	156.7	166.4	162.5
107.5°	292.1	237.9	211.8	195.4	183.8	165.4	146.0	144.1	149.9	148.9
110°	284.4	237.9	207.9	191.5	178.9	162.5	145.1	137.3	140.2	140.2

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

Scaled Data Report

REPORT NUMBER: P981479
CATALOG NUMBER: FFX-CLB-90-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	277.6	236.0	204.1	184.7	174.1	160.6	143.1	131.5	134.4	136.4
115°	262.1	217.6	192.5	172.2	161.5	147.0	135.4	126.7	127.7	129.6
117.5°	253.4	201.2	186.7	168.3	160.6	151.8	141.2	124.8	124.8	126.7
120°	253.4	198.3	191.5	184.7	180.9	166.4	148.9	124.8	121.9	121.9
122.5°	249.5	220.5	208.9	193.4	182.8	163.5	142.2	121.9	119.9	119.9
125°	229.2	210.8	192.5	174.1	161.5	146.0	133.5	122.8	119.0	119.0
127.5°	218.6	189.6	172.2	157.7	148.9	141.2	133.5	122.8	118.0	117.0
130°	221.5	191.5	169.3	157.7	150.9	143.1	134.4	120.9	113.2	112.2
132.5°	223.4	184.7	163.5	153.8	148.9	143.1	131.5	114.1	105.4	105.4
135°	202.1	166.4	156.7	149.9	147.0	142.2	124.8	108.3	101.6	100.6
137.5°	183.8	161.5	154.8	148.0	143.1	136.4	122.8	106.4	97.7	96.7
140°	176.0	157.7	148.0	135.4	129.6	116.1	106.4	96.7	93.8	92.9
142.5°	167.3	148.0	136.4	125.7	122.8	118.0	112.2	96.7	87.0	87.0
145°	200.2	178.0	164.4	153.8	140.2	130.6	112.2	92.9	80.3	78.3
147.5°	209.9	189.6	176.0	161.5	136.4	115.1	94.8	81.2	76.4	74.5
150°	183.8	166.4	151.8	136.4	114.1	99.6	86.1	77.4	75.4	75.4
152.5°	146.0	136.4	120.9	110.3	95.8	87.0	79.3	74.5	72.5	72.5
155°	120.9	113.2	104.5	95.8	88.0	82.2	77.4	73.5	71.6	71.6
157.5°	117.0	105.4	97.7	89.9	85.1	79.3	75.4	71.6	70.6	69.6
160°	106.4	92.9	86.1	81.2	80.3	78.3	75.4	72.5	71.6	70.6
162.5°	98.7	85.1	80.3	77.4	80.3	82.2	80.3	76.4	73.5	72.5
165°	92.9	80.3	76.4	76.4	82.2	85.1	80.3	76.4	76.4	75.4
167.5°	86.1	82.2	77.4	76.4	81.2	87.0	88.0	81.2	78.3	77.4
170°	80.3	81.2	81.2	78.3	79.3	84.1	86.1	84.1	80.3	79.3
172.5°	76.4	78.3	82.2	80.3	80.3	82.2	84.1	82.2	79.3	78.3
175°	72.5	73.5	71.6	72.5	75.4	78.3	77.4	76.4	75.4	75.4
177.5°	65.8	65.8	66.7	66.7	67.7	70.6	71.6	71.6	73.5	73.5
180°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7

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: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

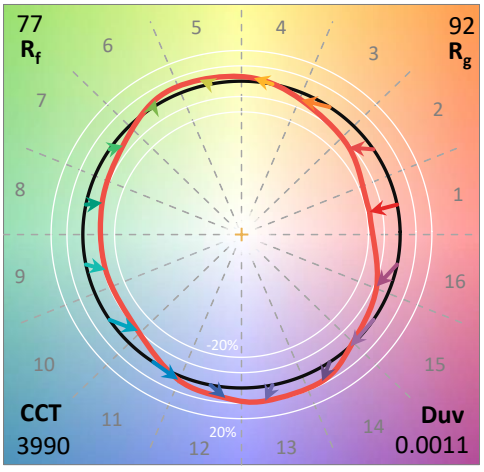
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3990	CRI (Ra):	73.9		
CIE u':	0.2247	R1:	69.6	R9:	-36.4
CIE v':	0.5031	R2:	83.0	R10:	60.9
Duv:	0.0011	R3:	93.1	R11:	66.8
CIE x:	0.3816	R4:	70.6	R12:	52.5
CIE y:	0.3798	R5:	70.6	R13:	72.5
CIE z:	0.2386	R6:	76.4	R14:	96.4
Peak Wavelength (nm):	450	R7:	79.8	R15:	61.3
Dominant Wavelength (nm):	578	R8:	48.1		
Purity:	28.50862				

Rf:	77.5
Rg:	91.9



Test Conditions

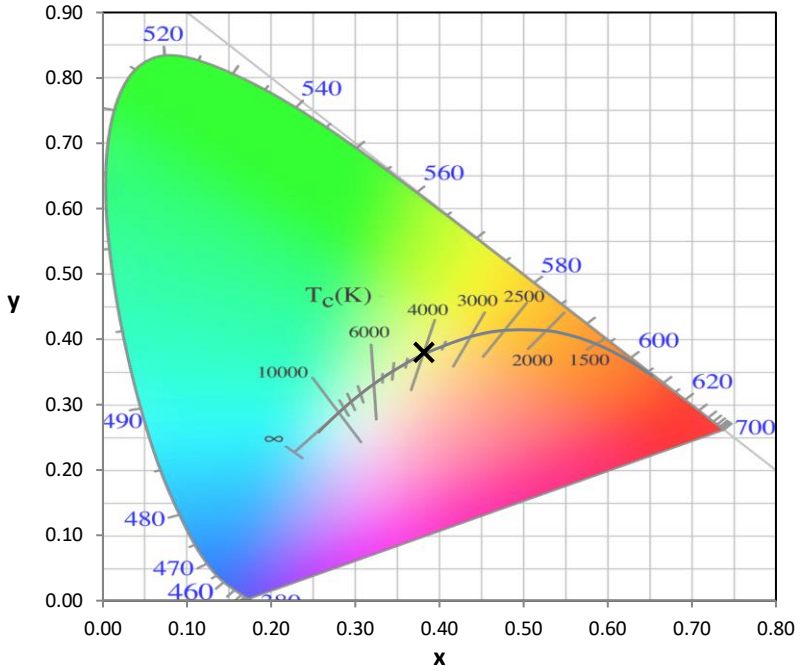
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

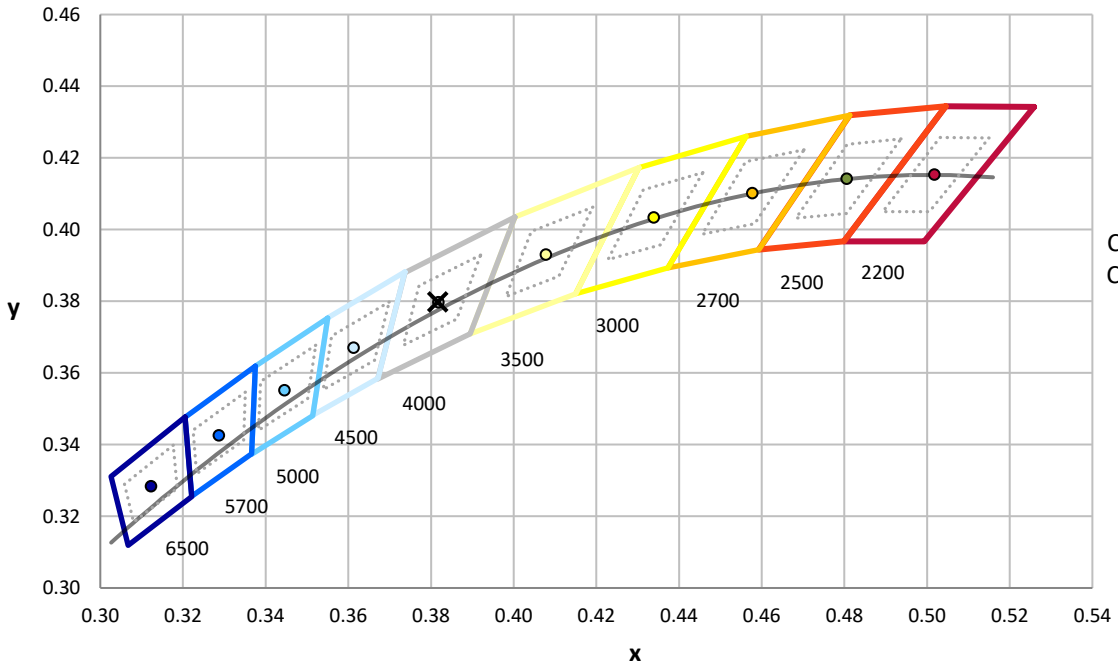
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

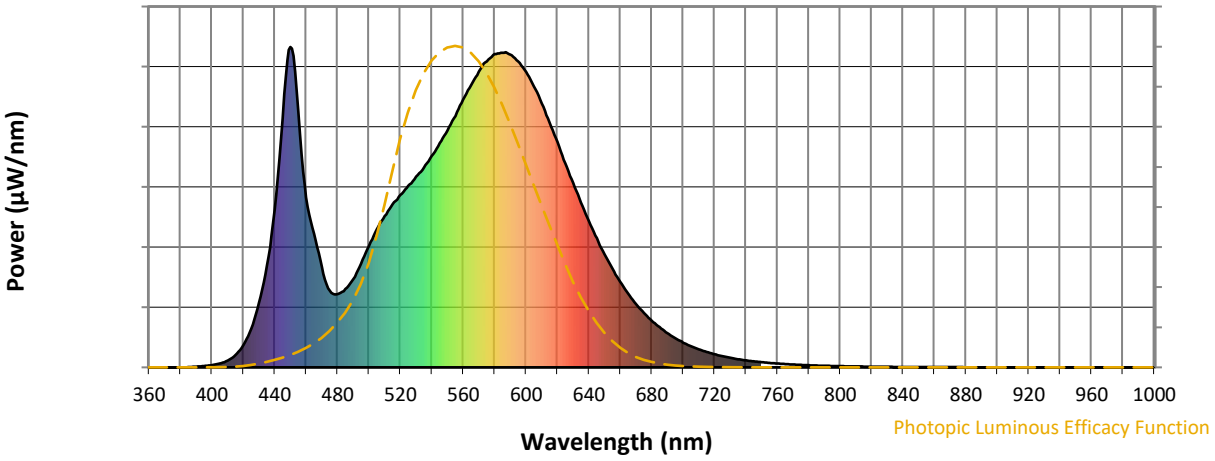


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

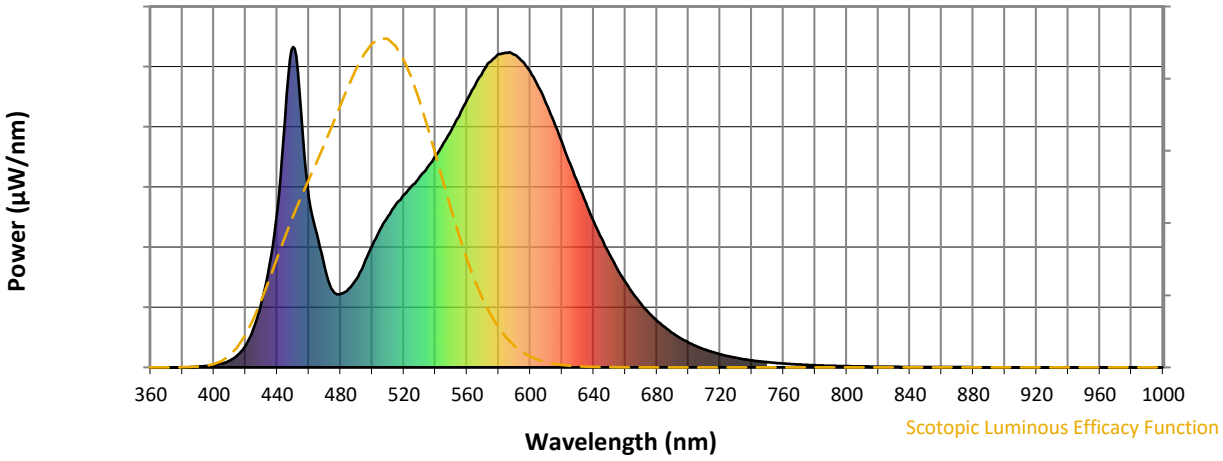


Photopic Lumens: NR

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

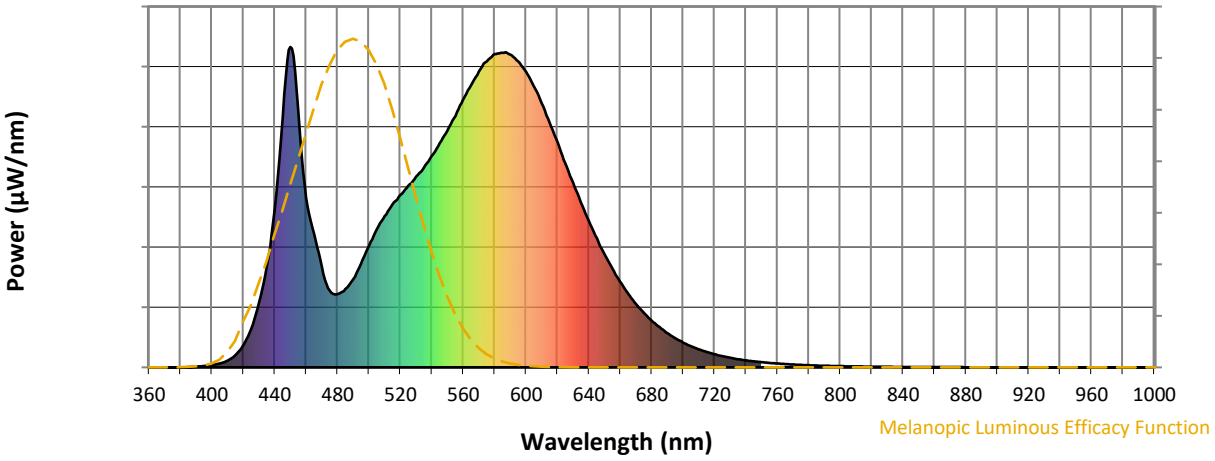


Scotopic Lumens: NR **S/P: 1.59**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.21**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

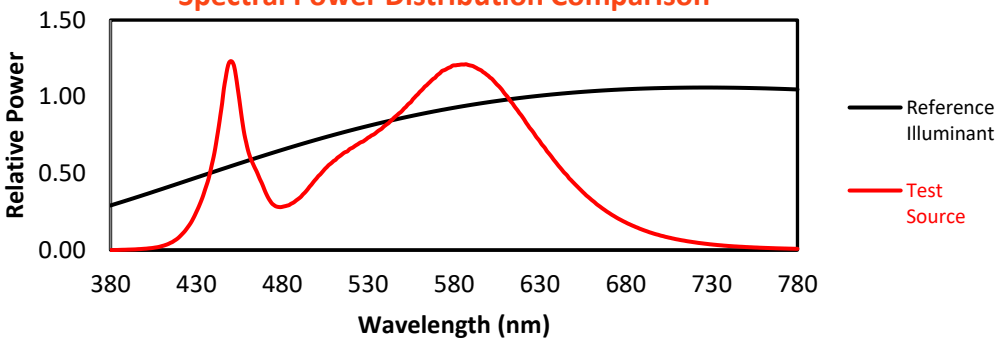
REPORT NUMBER: SP1-2501-332-1

TM-30-18

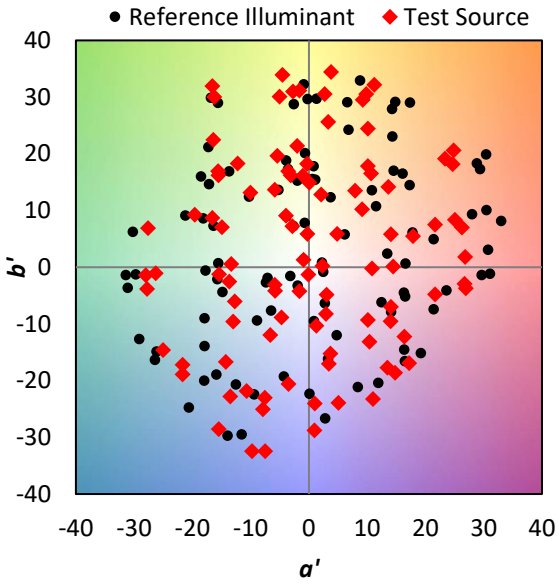
Summary

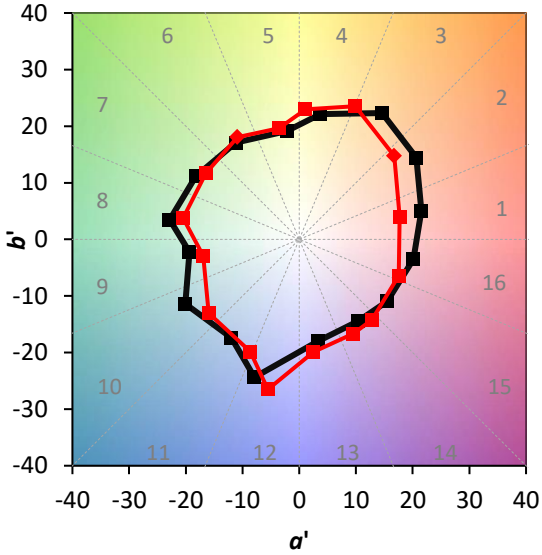
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

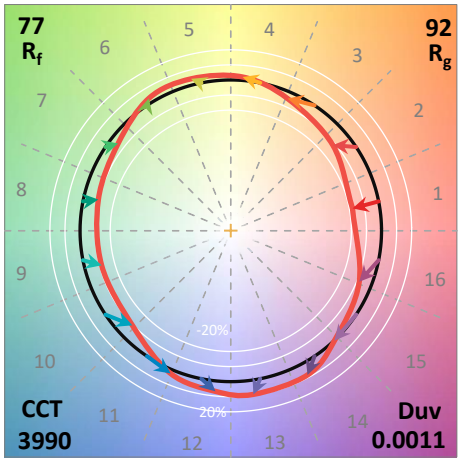
Spectral Power Distribution Comparison

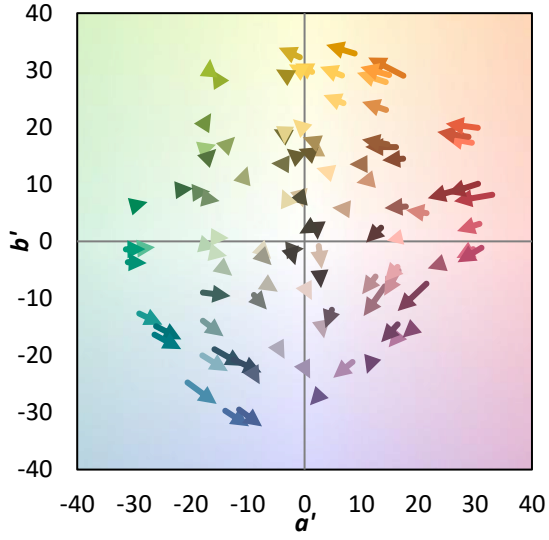


Color Vector Graphics







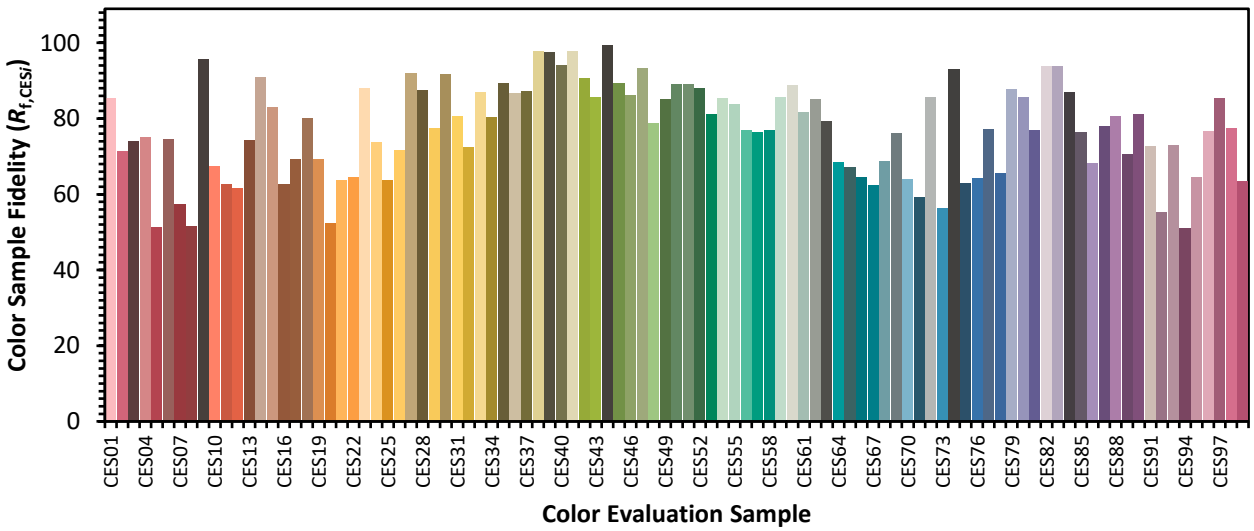


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

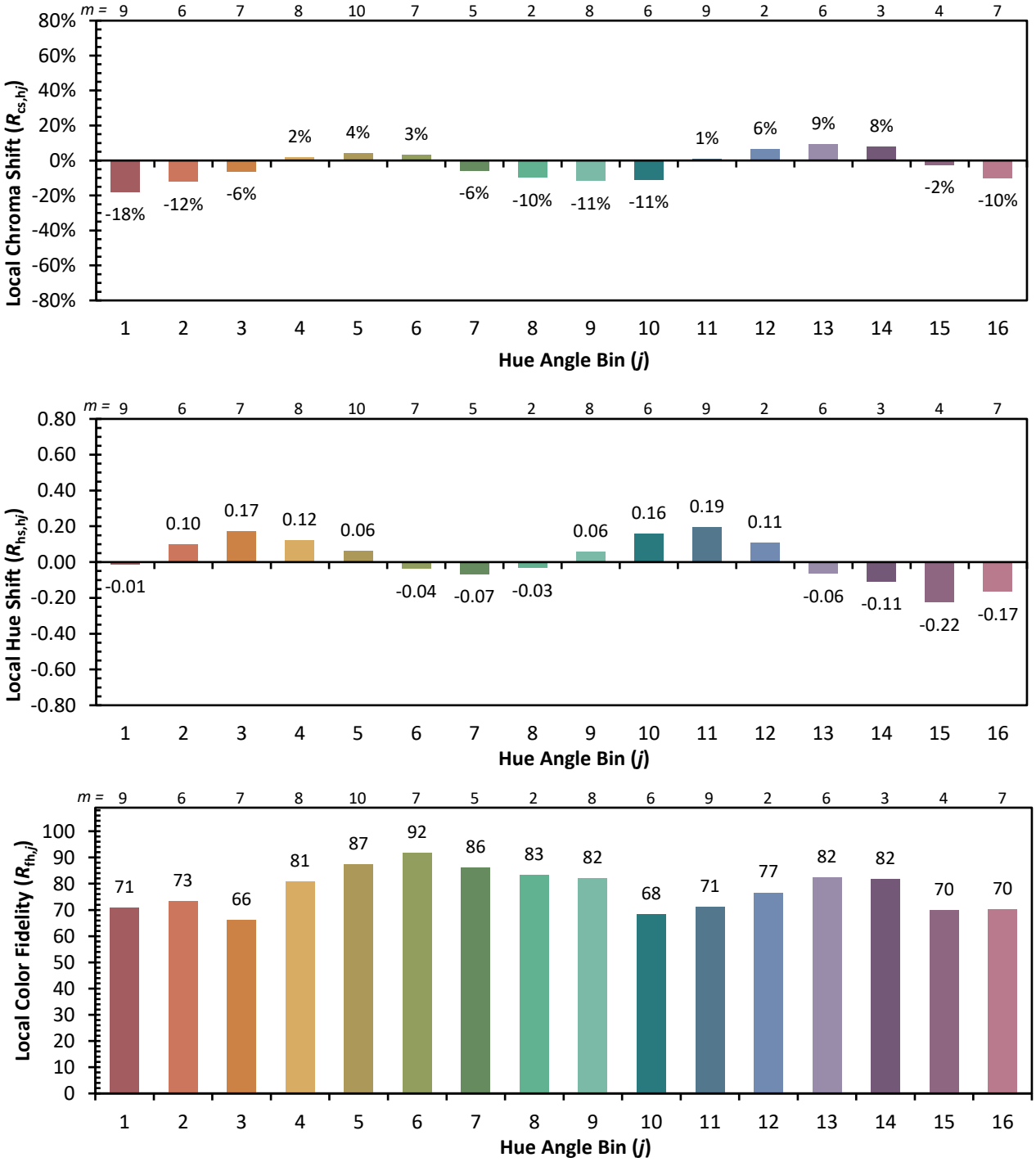
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



REPORT NUMBER: SP1-2501-332-1

TM-30-18

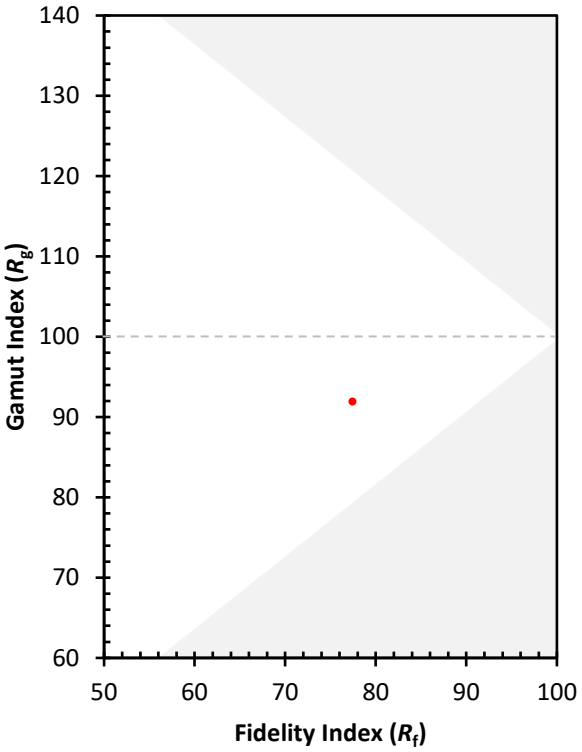
Color Rendition by Hue-Angle Bin

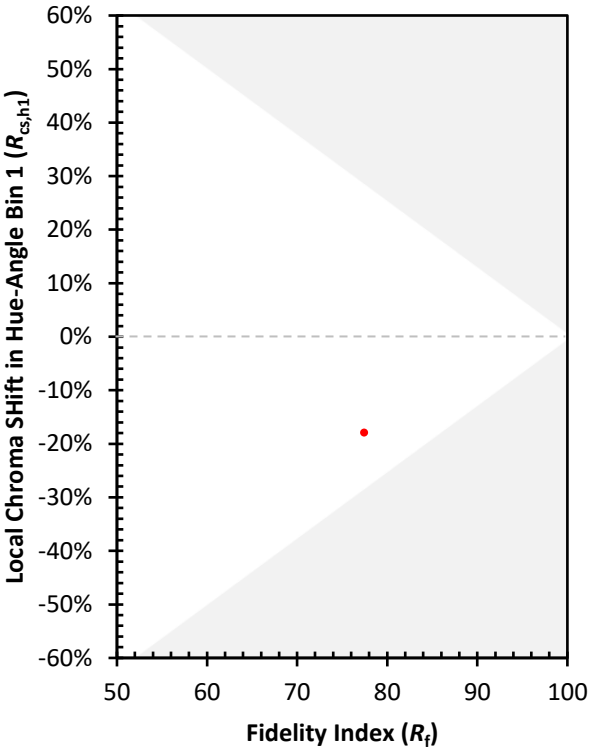


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Measure Comparisons





(END OF REPORT)