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: P981484

Luminaire Tested: **FFX-CLB-40-740-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:	P981484
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-740-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:	6324 lumens
Efficiency:	N/A
Efficacy:	160.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - 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

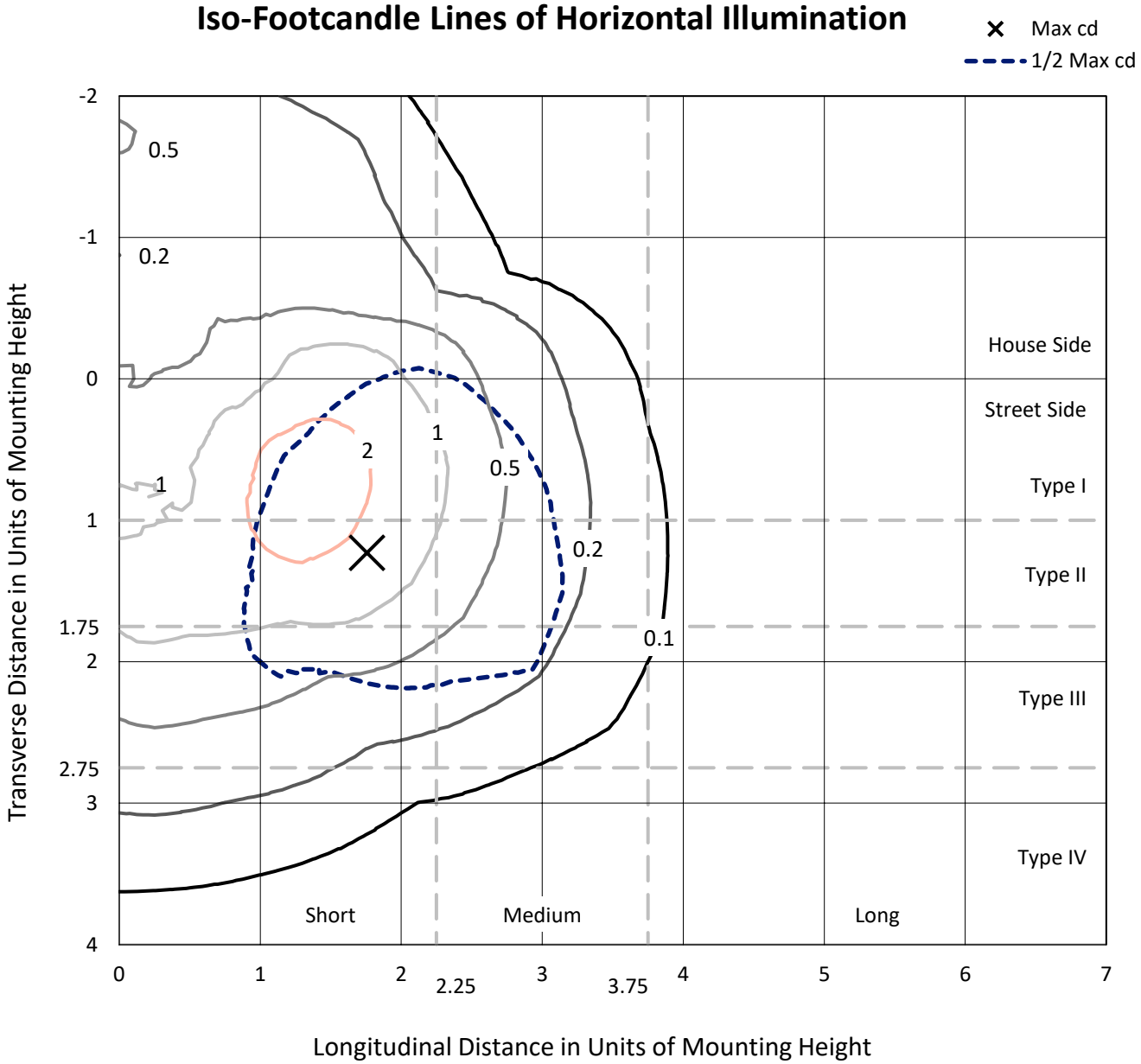


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Iso-Footcandle Lines of Horizontal Illumination



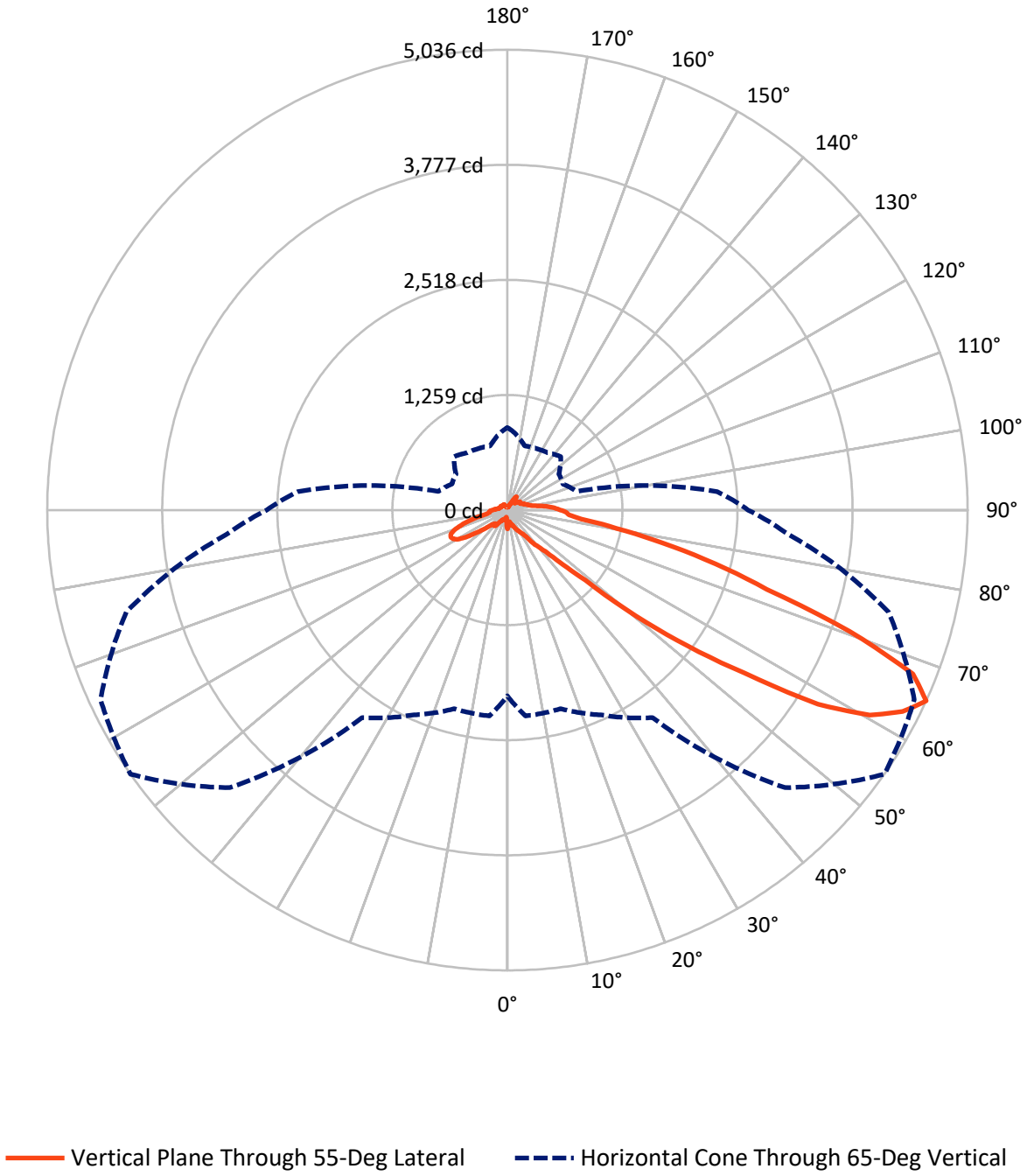
Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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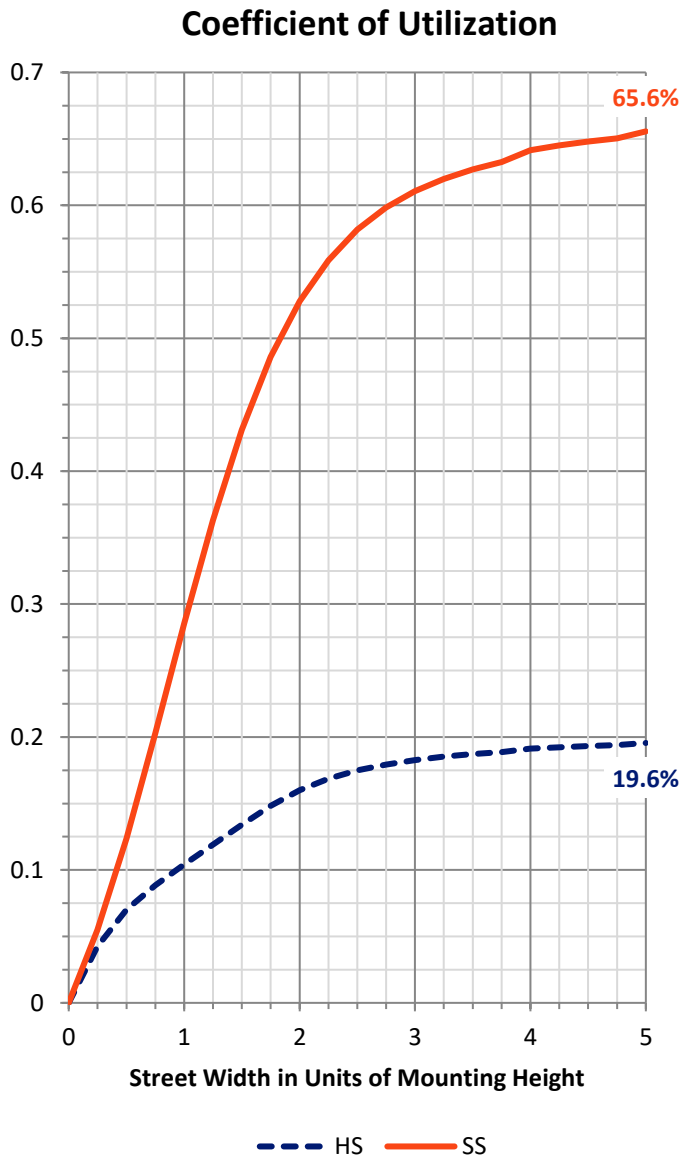
REPORT NUMBER: P981484
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1284.7	250.7	1535.4
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	4286.9	501.7	4788.6
	% Fixture	67.8	7.9	75.7
Total	Lumens	5571.6	752.4	6324.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	0.2
10°-20°	38.7	0.6
20°-30°	79.1	1.3
30°-40°	171.4	2.7
40°-50°	416.1	6.6
50°-60°	1298.9	20.5
60°-70°	2063.9	32.6
70°-80°	1099.9	17.4
80°-90°	391.9	6.2
90°-100°	238.4	3.8
100°-110°	141.2	2.2
110°-120°	110.2	1.7
120°-130°	91.9	1.5
130°-140°	67.2	1.1
140°-150°	61.8	1.0
150°-160°	27.9	0.4
160°-170°	10.7	0.2
170°-180°	3.1	0.0
0°-90°	5571.6	88.1
0°-180°	6324.0	100.0



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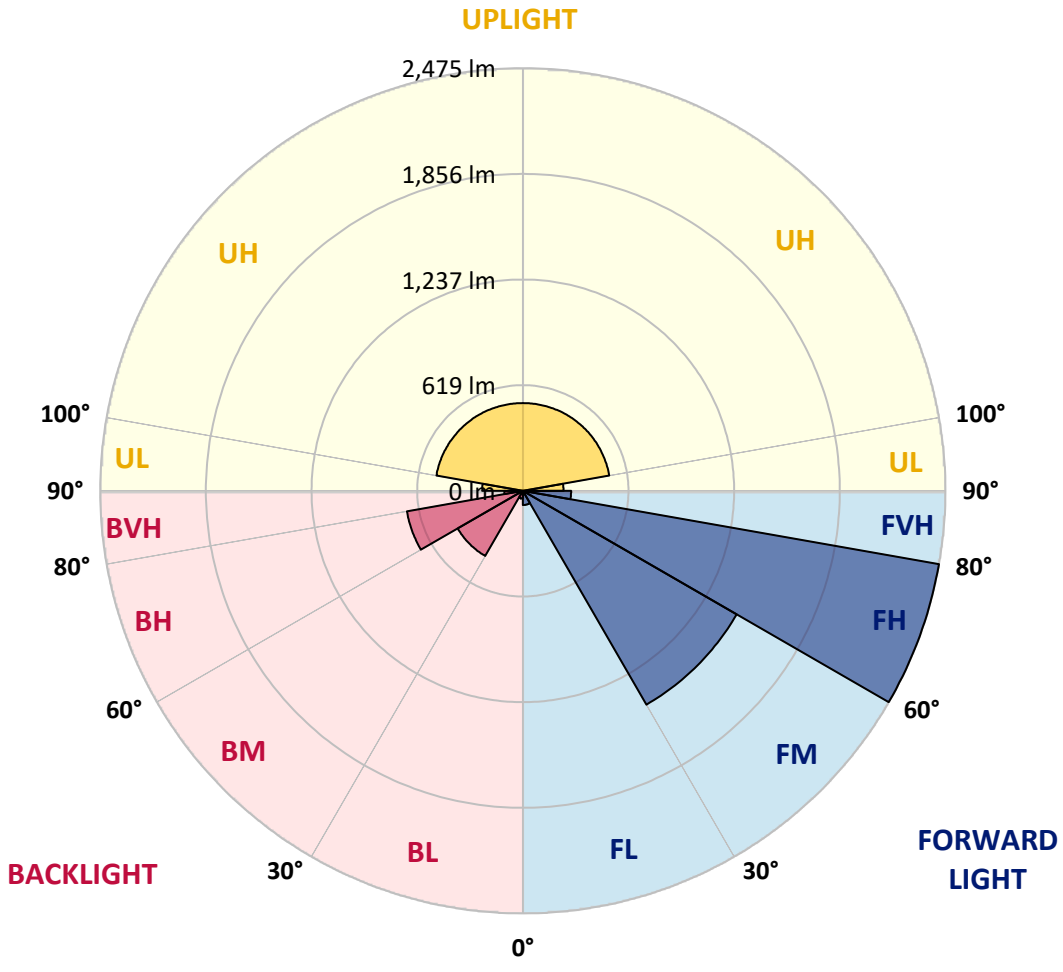
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	83.6	1.3			
FM	(30°-60°)	1446.0	22.9			
FH	(60°-80°)	2474.5	39.1			G2/5000
FVH	(80°-90°)	282.8	4.5			G3/500
BL	(0°-30°)	46.0	0.7	B0/110		
BM	(30°-60°)	440.3	7.0	B1/1000		
BH	(60°-80°)	689.2	10.9	B2/1000		G2/1000
BVH	(80°-90°)	109.1	1.7			G2/225
UL	(90°-100°)	238.4	3.8		U3/500	
UH	(100°-180°)	513.9	8.1		U4/1000	

BUG Rating: B2-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2
2.5°	122.5	123.4	137.1	147.8	161.1	157.2	157.2	186.3	205.6	233.9	231.3
5°	131.1	125.5	128.1	137.5	155.5	164.1	154.6	122.5	101.5	110.1	120.4
7.5°	143.5	142.2	139.2	130.2	123.4	141.8	167.5	149.1	112.7	94.7	90.8
10°	146.9	147.4	146.5	147.4	150.8	142.6	128.1	116.5	113.1	111.4	110.1
12.5°	177.8	177.3	179.1	176.9	168.8	158.9	161.9	153.4	136.6	125.1	122.1
15°	207.3	206.5	206.0	197.9	184.6	168.8	161.1	164.9	154.2	140.9	134.9
17.5°	219.3	219.3	210.8	199.2	191.0	179.9	173.9	169.6	161.5	152.9	145.6
20°	214.6	214.2	205.6	200.9	201.8	196.6	191.5	185.1	176.9	163.2	154.2
22.5°	212.0	212.0	209.0	207.8	215.0	213.3	212.0	203.9	193.2	173.1	161.5
25°	228.7	227.5	223.6	223.6	230.5	236.0	238.2	231.7	214.2	183.8	173.1
27.5°	245.0	244.6	239.5	240.7	245.0	256.2	259.6	256.6	232.6	192.8	183.3
30°	264.7	261.7	257.4	265.2	264.3	279.7	284.4	287.9	257.4	211.2	200.0
32.5°	285.7	284.0	280.6	290.4	293.9	308.0	311.8	329.0	291.3	244.2	232.6
35°	321.3	320.0	329.0	348.3	347.8	374.4	364.1	389.8	354.3	303.7	292.1
37.5°	481.5	474.2	463.9	445.5	444.2	481.0	469.5	489.6	439.5	368.4	355.5
40°	501.2	499.9	495.2	474.2	462.2	525.2	532.9	592.4	509.7	428.4	403.5
42.5°	489.6	491.3	554.3	567.6	543.2	620.7	633.5	738.1	589.0	519.6	474.2
45°	590.3	592.8	613.4	622.8	621.1	816.0	847.7	975.8	727.8	647.7	563.7
47.5°	675.9	667.0	704.2	776.2	825.4	1045.6	1147.6	1344.2	977.9	859.7	704.2
50°	928.7	926.5	1016.5	1095.3	1144.1	1504.4	1818.4	2034.3	1433.3	1246.5	982.7
52.5°	1100.0	1172.8	1258.9	1441.4	1485.5	2047.1	2472.0	2645.1	1980.7	1637.2	1341.6
55°	1273.9	1378.9	1475.3	1759.3	1905.8	2659.7	3143.3	3190.8	2601.4	1990.6	1692.9
57.5°	1597.3	1774.3	1836.4	2063.0	2277.1	3365.6	4006.8	3956.3	3241.4	2400.5	2085.2
60°	1889.9	2102.8	2084.8	2306.7	2582.1	3940.9	4555.1	4502.0	3826.9	2764.6	2386.8
62.5°	1988.0	2202.6	2178.2	2419.8	2771.9	4249.3	4854.1	4763.3	4210.3	2998.1	2553.9
65°	2033.8	2261.7	2249.7	2475.0	2771.9	4293.8	5036.2	4912.0	4317.4	3088.0	2634.4
67.5°	1993.6	2213.3	2221.0	2421.1	2608.7	3972.2	4787.7	4619.0	4049.3	2872.1	2490.5
70°	1742.6	1896.3	1877.1	2058.3	2076.7	3179.7	3973.4	3789.7	3289.8	2394.9	2060.8
72.5°	1439.7	1477.0	1461.1	1575.5	1596.9	2329.0	2969.8	2865.7	2456.6	1782.0	1574.6
75°	1148.0	1142.0	1174.6	1201.1	1178.8	1709.6	2351.7	2233.5	1817.5	1342.0	1211.8
77.5°	794.2	748.3	834.0	842.1	807.0	1136.9	1734.8	1689.9	1302.6	989.1	893.1
80°	446.3	451.5	512.7	549.2	536.3	723.5	1207.1	1177.6	889.7	691.4	614.3
82.5°	344.4	359.8	388.5	415.9	397.9	553.4	816.4	818.6	650.7	505.0	461.3
85°	378.7	386.8	390.7	391.5	377.4	514.5	676.8	667.8	552.6	422.8	409.1
87.5°	369.2	377.8	379.1	379.5	367.1	490.0	640.8	626.7	526.9	406.1	385.1
90°	316.6	331.1	332.8	344.0	329.4	437.8	564.1	550.0	475.0	366.2	346.5
92.5°	272.0	279.7	287.9	301.1	285.7	381.2	505.0	487.5	425.4	331.1	304.1
95°	248.9	253.2	260.0	265.2	247.2	323.8	422.4	403.9	345.3	266.4	242.4
97.5°	200.0	203.9	206.9	213.3	200.9	256.6	327.7	310.6	270.7	212.0	194.0
100°	170.9	173.5	176.9	181.2	170.9	215.0	269.0	261.3	225.3	179.1	167.5
102.5°	156.4	158.5	164.5	164.5	158.1	196.6	240.3	234.3	202.6	162.3	154.6
105°	150.8	151.2	156.4	154.2	149.9	183.3	224.0	216.3	189.8	154.2	145.2
107.5°	143.5	143.9	150.4	146.9	143.5	170.1	203.0	199.6	175.6	143.9	136.2
110°	136.2	137.5	145.6	142.6	140.5	159.8	190.2	183.8	167.9	139.2	132.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	130.6	131.5	139.2	137.1	135.4	152.9	*176.5*	176.5	164.1	139.2	130.6
115°	125.9	127.7	134.1	129.8	126.8	143.9	*162.8*	163.6	153.4	132.8	124.2
117.5°	117.8	121.7	125.1	126.8	123.4	137.9	*154.6*	153.8	148.2	128.1	122.1
120°	134.1	131.1	133.6	136.6	131.1	142.6	*156.8*	156.8	151.2	125.9	120.8
122.5°	140.1	135.8	138.4	135.4	134.9	149.9	*167.5*	168.8	157.2	129.8	116.9
125°	124.2	122.5	119.5	118.7	122.1	136.2	*152.1*	157.6	145.2	124.2	109.2
127.5°	106.2	104.1	100.2	102.4	108.8	122.9	*131.1*	134.1	128.9	115.2	104.1
130°	98.1	97.7	100.7	104.5	109.7	121.7	*124.2*	128.5	128.5	112.2	105.8
132.5°	89.5	90.0	99.4	112.7	116.5	119.1	*113.5*	121.7	125.5	114.4	107.1
135°	88.2	88.7	93.8	104.5	104.9	106.7	*107.1*	117.4	119.9	109.2	101.1
137.5°	96.4	96.4	92.5	94.7	99.4	112.2	*116.5*	124.7	122.5	103.2	91.2
140°	106.2	104.1	92.1	92.5	100.7	116.5	*122.1*	127.2	124.7	101.1	87.0
142.5°	87.8	88.7	90.8	99.0	108.4	144.4	*139.6*	152.5	147.4	107.1	84.8
145°	137.1	137.5	134.9	138.4	144.4	191.9	*177.3*	197.9	203.9	140.1	100.7
147.5°	149.9	151.6	146.9	143.9	161.1	175.6	*159.3*	176.5	188.0	146.9	107.9
150°	116.9	116.5	113.5	117.8	129.4	128.5	*119.9*	125.9	130.6	112.2	92.5
152.5°	83.1	81.8	80.1	80.5	94.2	90.8	*88.2*	93.4	93.4	86.1	74.1
155°	69.0	69.0	68.1	70.3	78.0	72.0	*69.8*	69.0	68.1	66.0	61.3
157.5°	58.3	59.5	58.3	60.8	66.0	60.4	*59.1*	57.8	58.3	58.3	57.0
160°	48.4	48.4	47.5	51.8	53.5	49.3	*47.1*	46.3	46.3	48.8	48.8
162.5°	40.7	40.7	41.1	42.8	44.1	41.1	*39.8*	39.8	41.1	45.0	45.0
165°	35.1	35.1	35.6	36.8	37.7	36.0	*35.1*	35.6	39.0	42.4	42.4
167.5°	32.1	32.1	32.1	32.6	33.0	32.1	*32.1*	33.8	36.8	39.0	39.0
170°	30.4	30.4	30.0	30.4	30.4	30.4	*32.1*	33.8	35.1	35.1	35.1
172.5°	30.8	30.8	30.4	30.8	30.8	30.4	*32.6*	34.7	33.8	33.4	33.4
175°	31.7	31.7	31.7	32.1	32.1	31.3	*30.8*	31.7	32.6	32.6	32.1
177.5°	31.7	31.7	31.3	31.7	31.3	30.4	*30.0*	29.6	29.6	29.1	29.1
180°	29.6	29.6	29.6	29.6	29.6	29.6	*29.6*	29.6	29.6	29.6	29.6

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2
2.5°	209.5	180.8	159.3	176.1	212.9	231.3	212.9	161.9	113.9	99.8
5°	125.5	122.1	110.1	107.5	112.2	107.9	119.9	113.5	90.0	90.8
7.5°	93.8	113.5	109.7	78.4	73.2	68.5	72.4	82.7	85.2	79.7
10°	108.8	98.1	85.7	79.7	87.0	93.8	89.1	77.5	66.8	63.8
12.5°	119.9	119.1	120.4	107.9	88.7	81.8	79.2	85.2	103.7	107.9
15°	128.9	119.1	110.1	107.5	94.7	87.8	84.4	82.7	79.2	76.7
17.5°	137.9	121.7	111.8	101.9	95.5	89.1	81.8	78.0	77.5	78.0
20°	143.9	128.9	117.4	106.2	98.1	89.5	82.2	78.8	78.8	78.8
22.5°	151.2	136.6	124.2	110.1	100.7	91.2	85.2	81.8	81.4	81.4
25°	163.2	146.9	132.4	116.9	106.7	98.1	90.0	85.7	84.4	84.0
27.5°	176.9	158.9	141.4	125.5	114.8	105.4	94.7	88.2	86.5	86.1
30°	194.5	173.9	151.6	134.9	121.7	112.7	99.8	92.1	88.7	88.2
32.5°	223.2	196.2	167.1	148.6	132.8	120.8	106.7	97.2	91.7	90.4
35°	278.4	245.4	201.8	175.2	149.9	131.1	112.7	100.2	94.7	93.8
37.5°	340.1	290.0	247.6	216.7	185.9	154.2	122.1	104.9	98.1	96.8
40°	366.7	319.1	274.1	225.7	218.9	194.0	149.9	116.5	102.8	100.7
42.5°	424.9	357.2	296.4	199.6	215.5	214.2	185.1	142.6	115.7	110.5
45°	500.3	406.5	329.8	213.3	217.2	209.5	189.8	164.9	140.5	134.9
47.5°	623.3	454.5	340.5	239.9	244.2	225.7	198.8	173.9	156.4	154.2
50°	890.1	595.4	380.0	290.4	304.1	261.7	228.3	206.9	185.9	182.1
52.5°	1210.1	705.5	420.6	362.4	411.7	350.8	300.3	260.9	259.6	254.4
55°	1547.2	747.9	474.6	441.6	518.3	465.6	416.4	380.4	398.8	400.5
57.5°	1925.9	793.3	552.6	545.3	647.7	563.7	522.2	532.0	662.7	713.6
60°	2178.2	830.6	619.8	631.0	765.9	684.1	652.8	674.7	896.6	989.5
62.5°	2290.4	811.7	652.8	672.1	816.9	757.3	752.2	763.8	951.8	1038.8
65°	*2305.8*	*783.9*	*670.8*	*687.5*	*825.9*	*765.0*	*743.2*	*726.9*	*852.0*	*903.0*
67.5°	2116.5	724.8	656.7	674.2	785.2	712.4	658.0	621.1	693.5	698.7
70°	1722.4	647.2	608.7	615.1	670.8	596.3	544.9	513.2	529.9	523.0
72.5°	1335.6	570.6	542.3	527.3	544.0	480.2	419.4	403.1	418.9	411.7
75°	1014.8	509.7	478.5	427.9	455.3	369.7	302.0	287.4	294.3	284.4
77.5°	746.2	410.8	374.4	316.6	354.3	268.2	203.9	188.9	191.5	182.1
80°	544.4	303.7	273.7	227.0	255.3	190.6	147.4	144.8	144.4	138.4
82.5°	420.6	241.2	218.9	195.3	200.0	168.3	139.6	135.4	135.4	126.4
85°	390.2	233.5	210.8	194.0	195.3	163.2	132.8	130.2	131.5	122.1
87.5°	364.5	228.3	209.9	189.8	179.9	147.8	119.5	122.5	123.4	115.2
90°	312.7	203.0	186.3	167.1	155.5	125.5	107.1	112.7	113.5	106.2
92.5°	274.1	174.3	160.2	145.2	140.1	117.8	102.8	107.1	107.1	100.7
95°	218.5	142.6	136.2	128.9	127.7	110.1	96.0	98.1	97.2	91.7
97.5°	177.8	123.8	118.2	111.4	107.1	94.2	84.4	86.5	87.0	83.1
100°	156.4	114.4	106.7	99.0	94.7	84.8	77.1	81.0	83.5	80.1
102.5°	146.1	109.2	100.7	92.5	89.1	80.1	72.8	76.2	79.7	76.7
105°	138.8	105.4	96.4	89.1	84.8	75.8	68.5	69.4	73.7	72.0
107.5°	129.4	105.4	93.8	86.5	81.4	73.2	64.7	63.8	66.4	66.0
110°	125.9	105.4	92.1	84.8	79.2	72.0	64.3	60.8	62.1	62.1

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

Scaled Data Report

REPORT NUMBER: P981484
CATALOG NUMBER: FFX-CLB-40-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	122.9	104.5	90.4	81.8	77.1	71.1	63.4	58.3	59.5	60.4
115°	116.1	96.4	85.2	76.2	71.5	65.1	60.0	56.1	56.5	57.4
117.5°	112.2	89.1	82.7	74.5	71.1	67.3	62.5	55.3	55.3	56.1
120°	112.2	87.8	84.8	81.8	80.1	73.7	66.0	55.3	54.0	54.0
122.5°	110.5	97.7	92.5	85.7	81.0	72.4	63.0	54.0	53.1	53.1
125°	101.5	93.4	85.2	77.1	71.5	64.7	59.1	54.4	52.7	52.7
127.5°	96.8	84.0	76.2	69.8	66.0	62.5	59.1	54.4	52.3	51.8
130°	98.1	84.8	75.0	69.8	66.8	63.4	59.5	53.5	50.1	49.7
132.5°	99.0	81.8	72.4	68.1	66.0	63.4	58.3	50.5	46.7	46.7
135°	89.5	73.7	69.4	66.4	65.1	63.0	55.3	48.0	45.0	44.5
137.5°	81.4	71.5	68.5	65.5	63.4	60.4	54.4	47.1	43.3	42.8
140°	78.0	69.8	65.5	60.0	57.4	51.4	47.1	42.8	41.6	41.1
142.5°	74.1	65.5	60.4	55.7	54.4	52.3	49.7	42.8	38.6	38.6
145°	88.7	78.8	72.8	68.1	62.1	57.8	49.7	41.1	35.6	34.7
147.5°	93.0	84.0	78.0	71.5	60.4	51.0	42.0	36.0	33.8	33.0
150°	81.4	73.7	67.3	60.4	50.5	44.1	38.1	34.3	33.4	33.4
152.5°	64.7	60.4	53.5	48.8	42.4	38.6	35.1	33.0	32.1	32.1
155°	53.5	50.1	46.3	42.4	39.0	36.4	34.3	32.6	31.7	31.7
157.5°	51.8	46.7	43.3	39.8	37.7	35.1	33.4	31.7	31.3	30.8
160°	47.1	41.1	38.1	36.0	35.6	34.7	33.4	32.1	31.7	31.3
162.5°	43.7	37.7	35.6	34.3	35.6	36.4	35.6	33.8	32.6	32.1
165°	41.1	35.6	33.8	33.8	36.4	37.7	35.6	33.8	33.8	33.4
167.5°	38.1	36.4	34.3	33.8	36.0	38.6	39.0	36.0	34.7	34.3
170°	35.6	36.0	36.0	34.7	35.1	37.3	38.1	37.3	35.6	35.1
172.5°	33.8	34.7	36.4	35.6	35.6	36.4	37.3	36.4	35.1	34.7
175°	32.1	32.6	31.7	32.1	33.4	34.7	34.3	33.8	33.4	33.4
177.5°	29.1	29.1	29.6	29.6	30.0	31.3	31.7	31.7	32.6	32.6
180°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6

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: SP1-2501-332-1

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

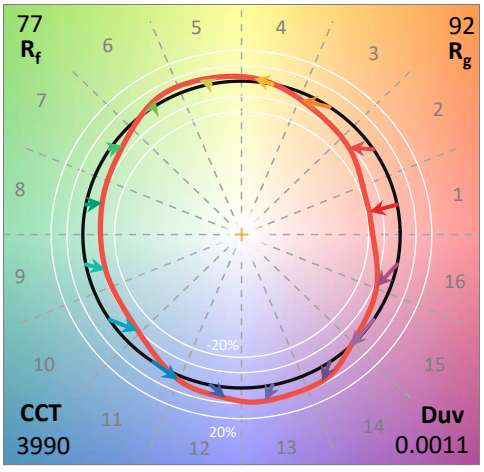
Test Information

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

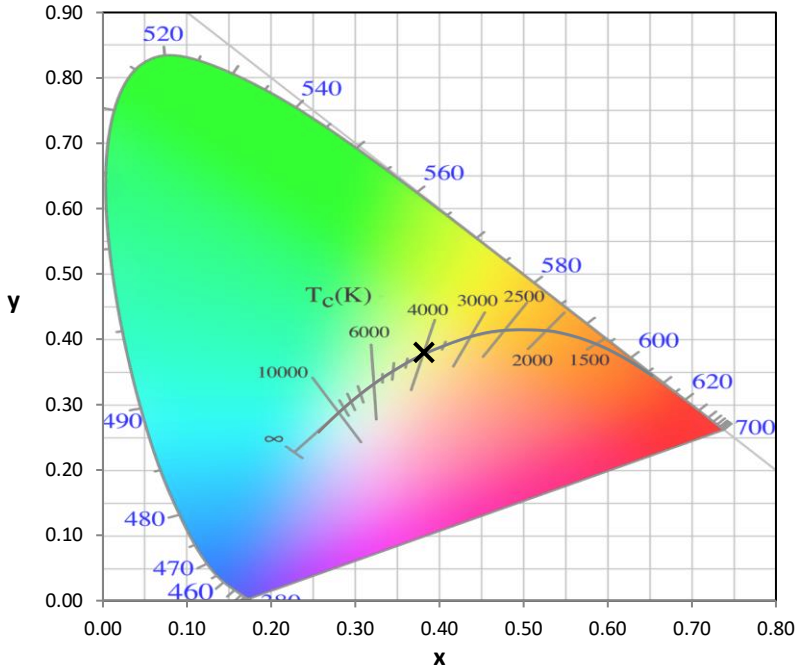
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

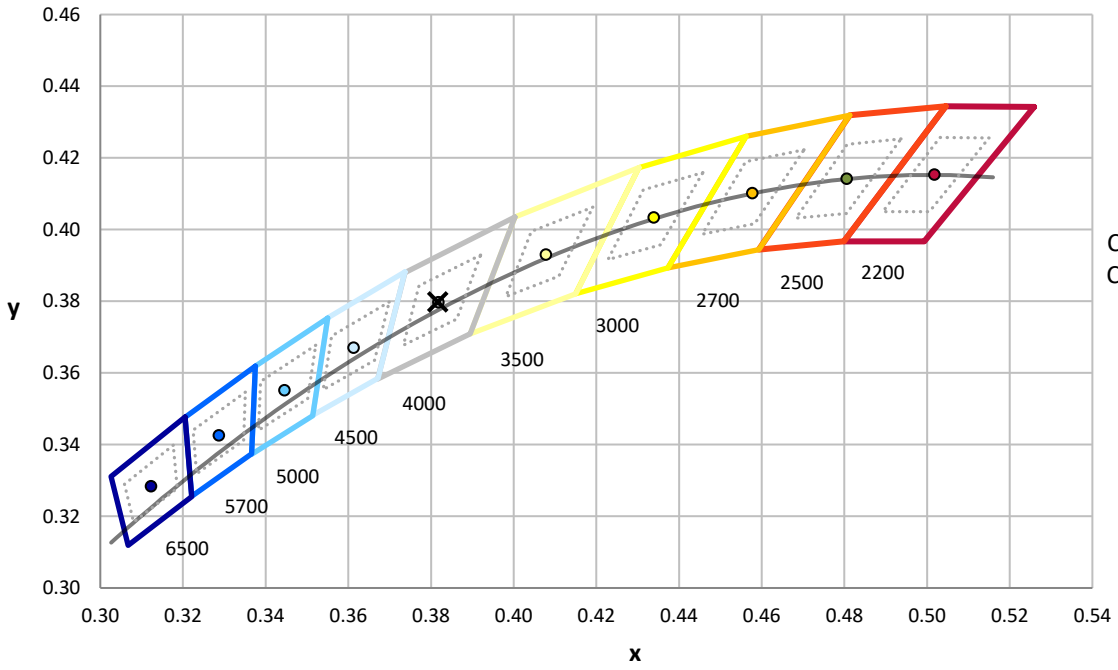
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

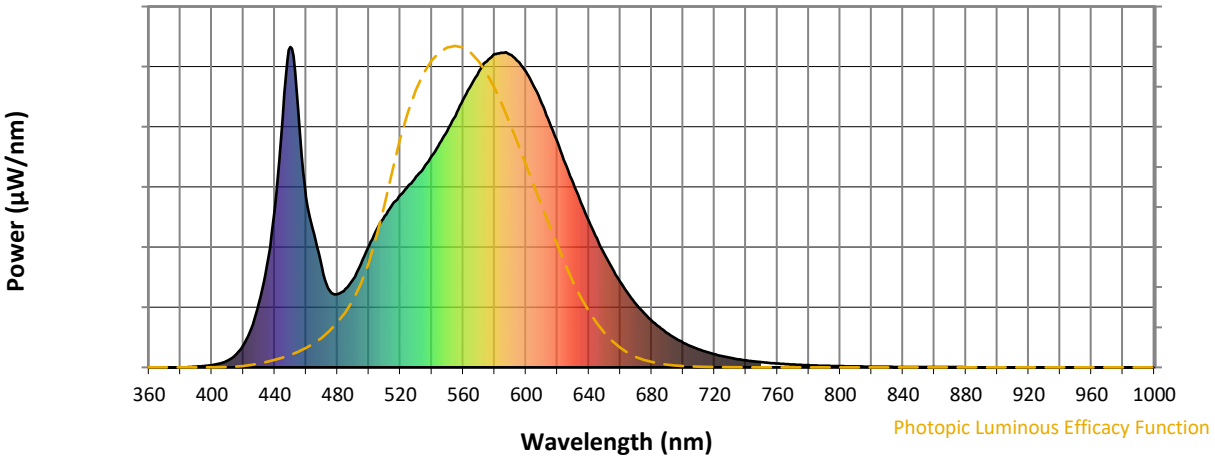


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

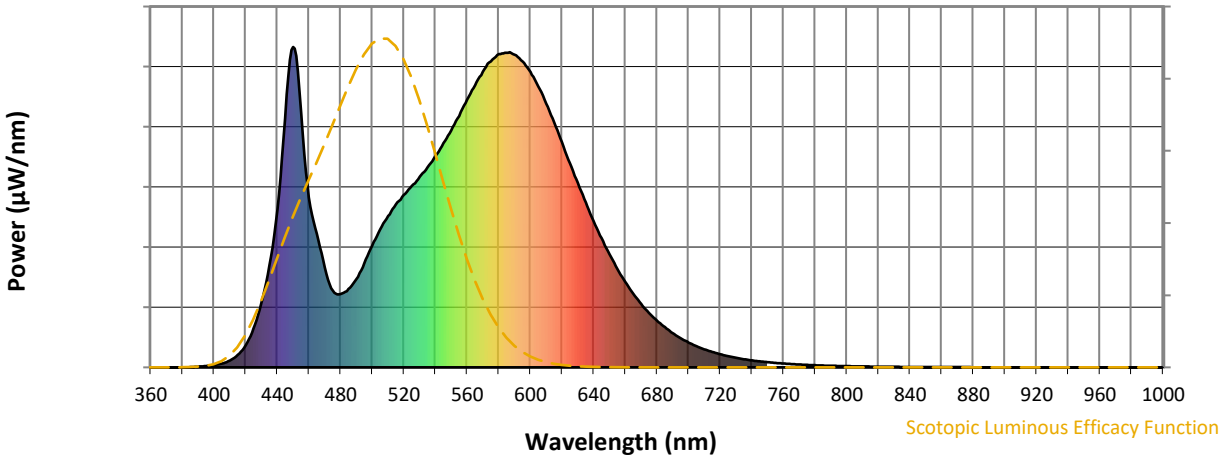


Photopic Lumens: NR

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

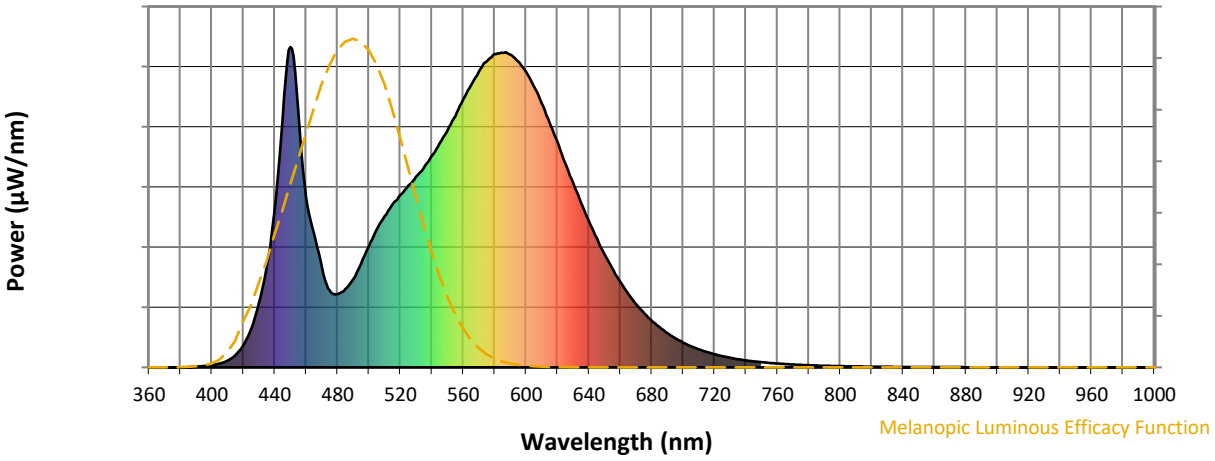


Scotopic Lumens: NR **S/P: 1.59**

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			

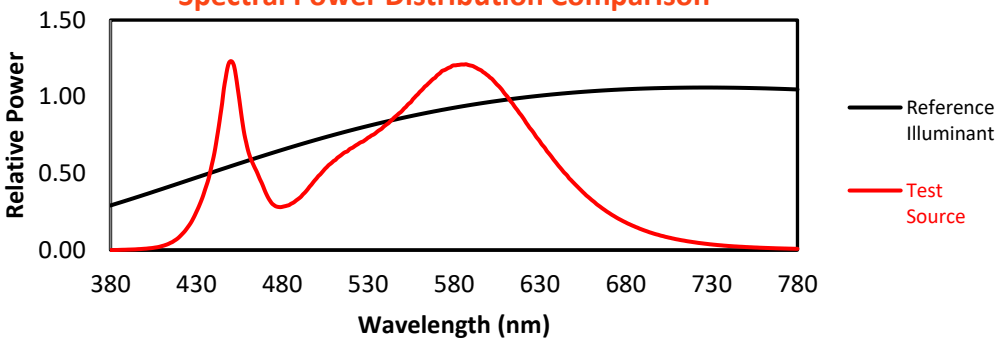
REPORT NUMBER: SP1-2501-332-1

TM-30-18

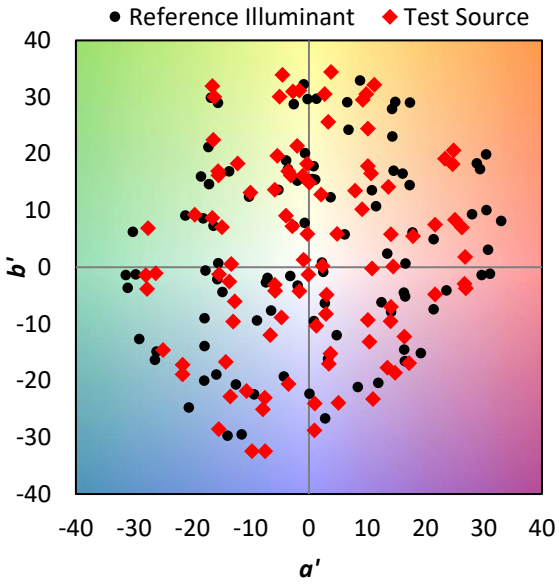
Summary

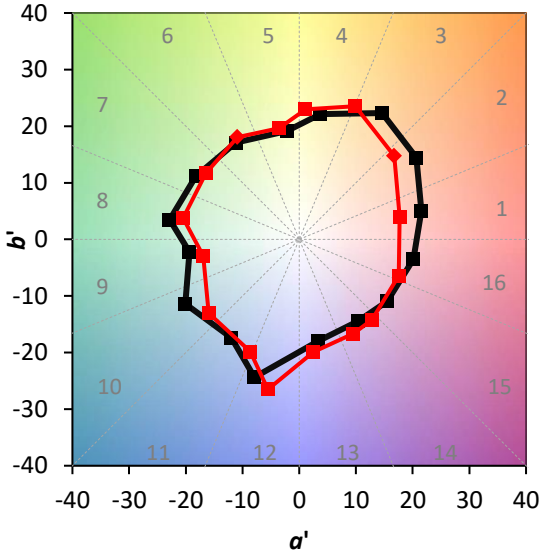
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

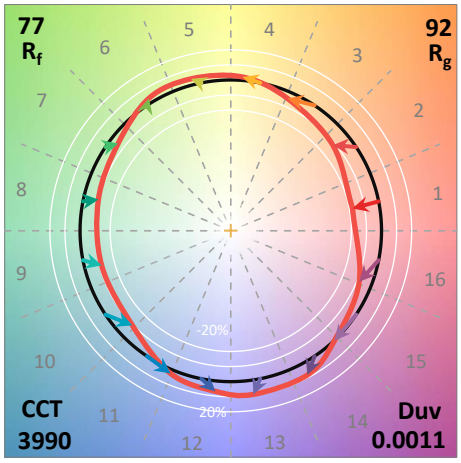
Spectral Power Distribution Comparison

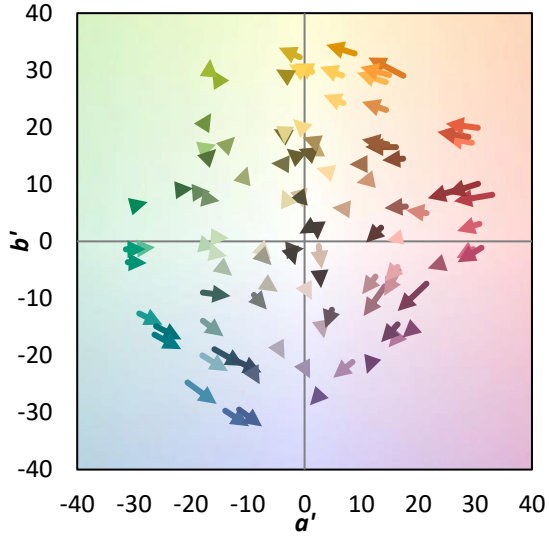


Color Vector Graphics







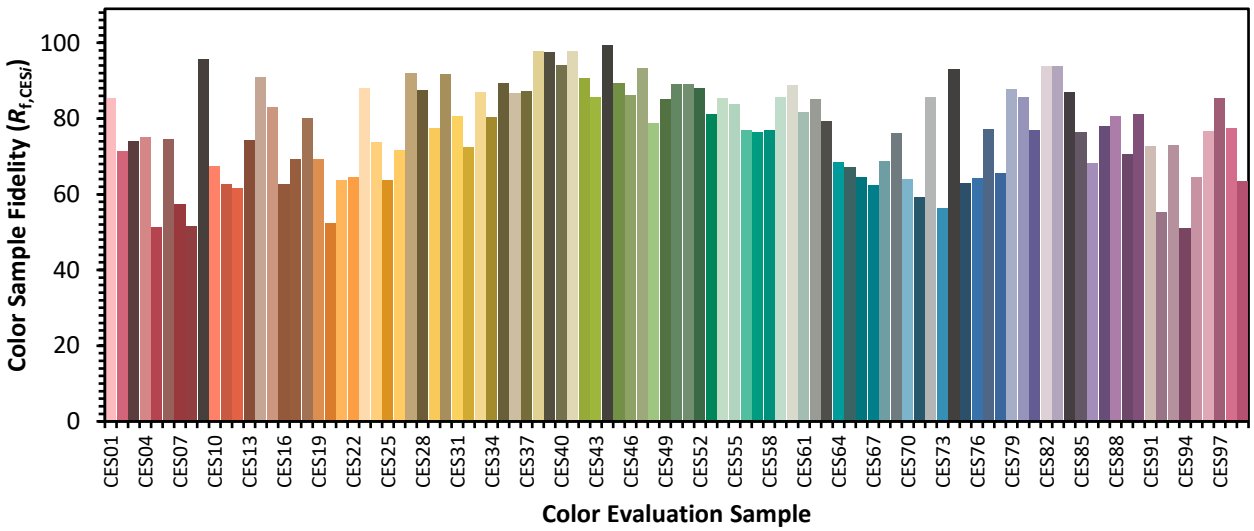


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

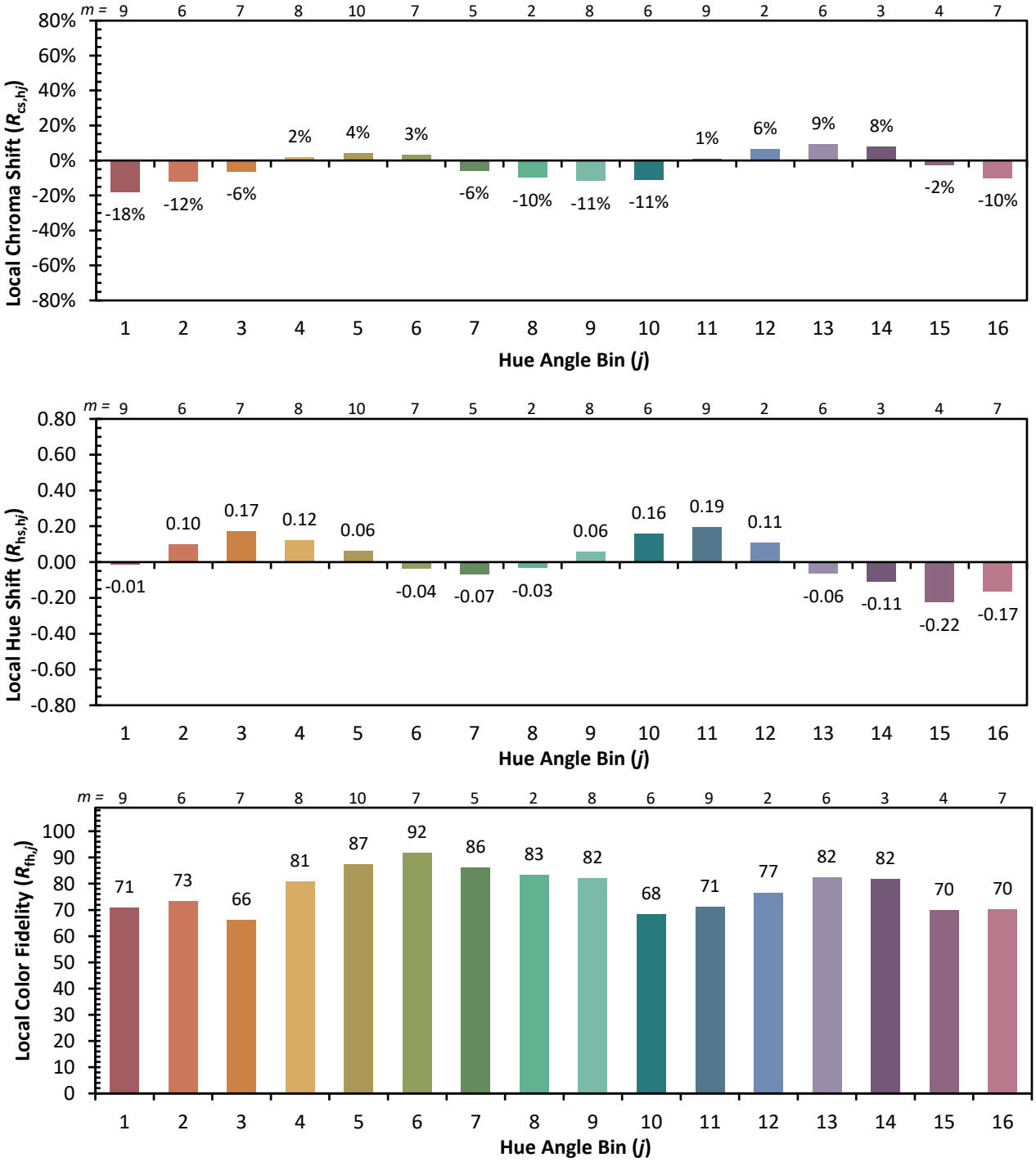
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 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

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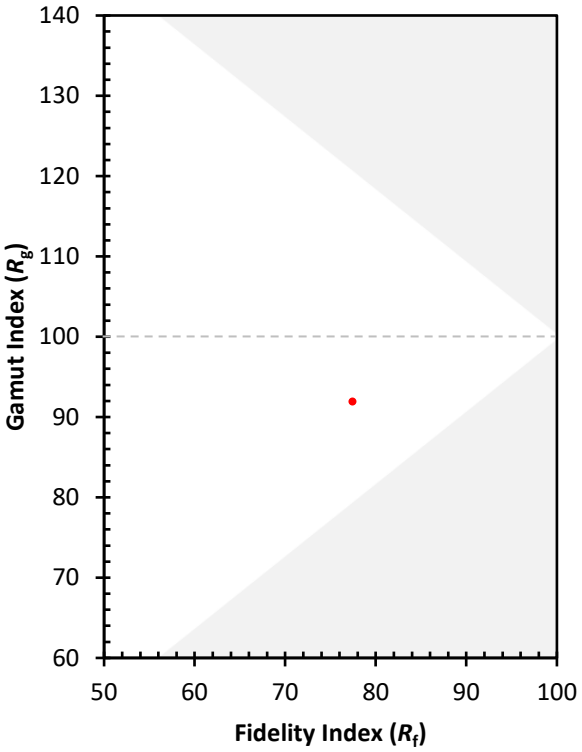
Color Rendition by Hue-Angle Bin

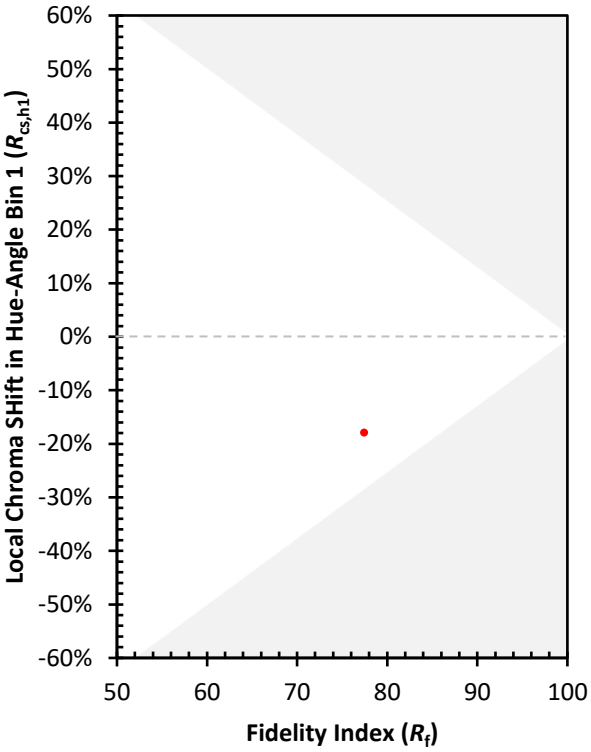


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)