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: P1045992

Luminaire Tested: **FFX-CLB-20-740-U-PG-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045992
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-740-U-PG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2347.2 lumens
Efficiency:	N/A
Efficacy:	118.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

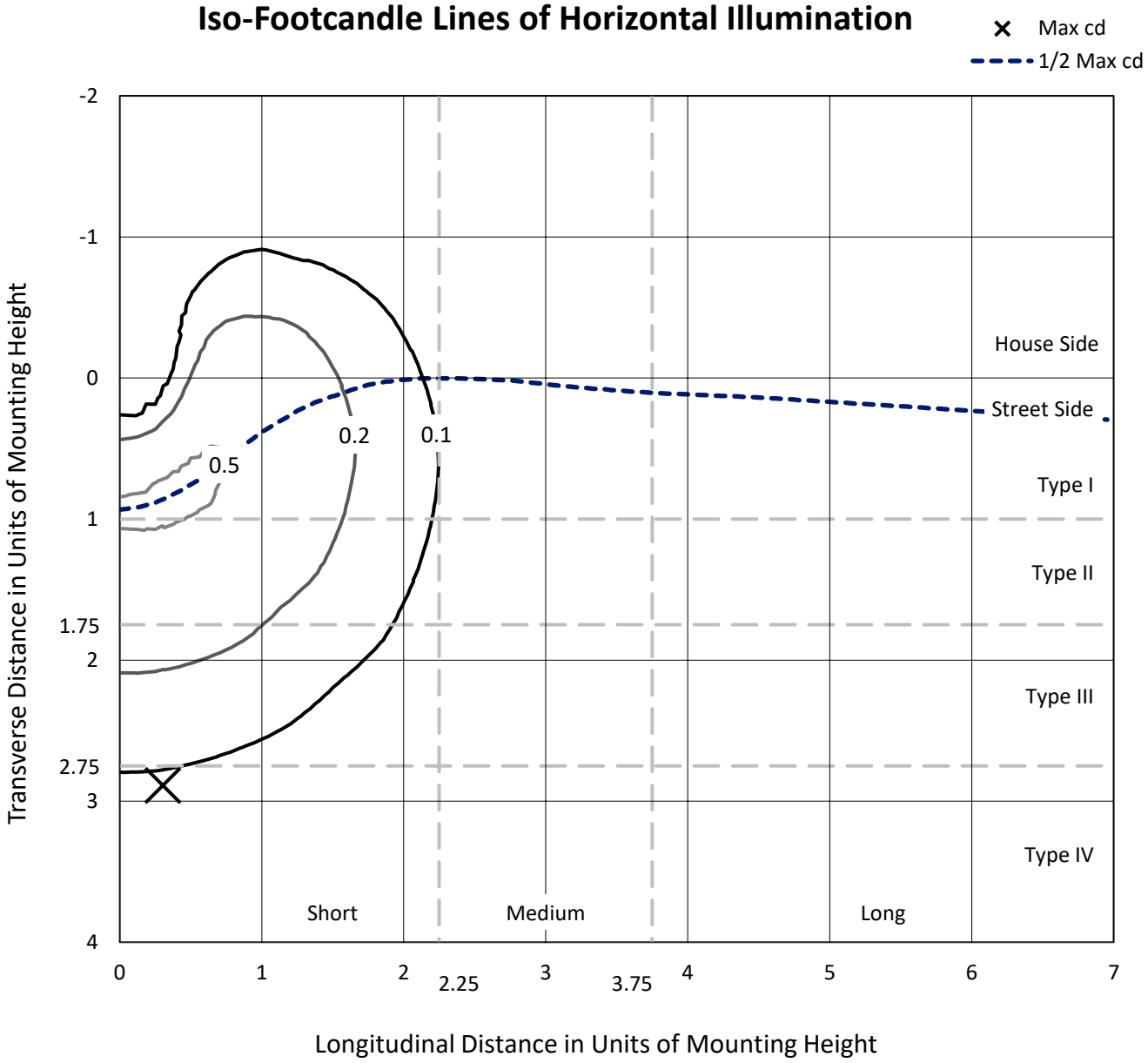


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Iso-Footcandle Lines of Horizontal Illumination



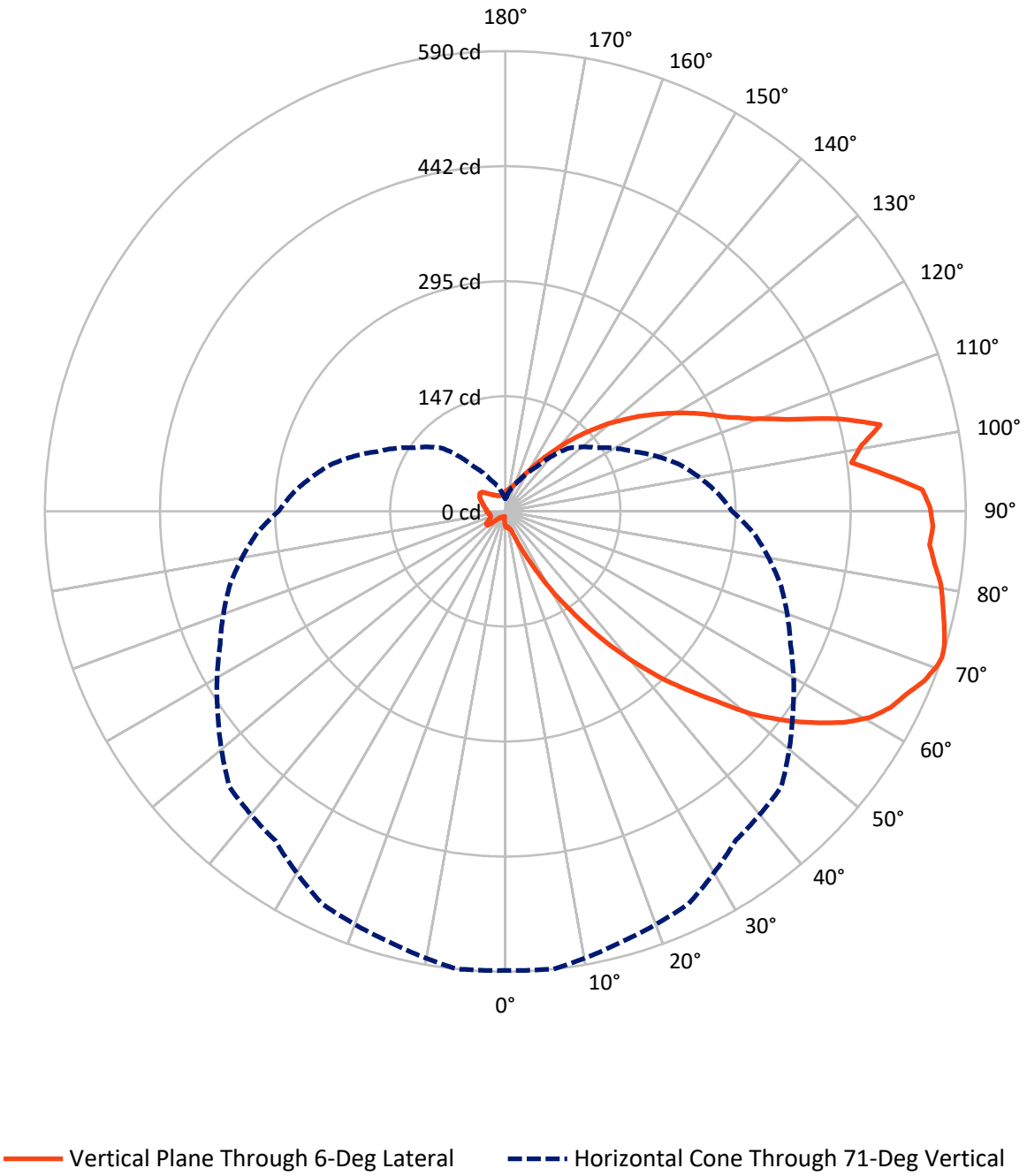
Based on 15 foot mounting height. Maximum calculated value = 0.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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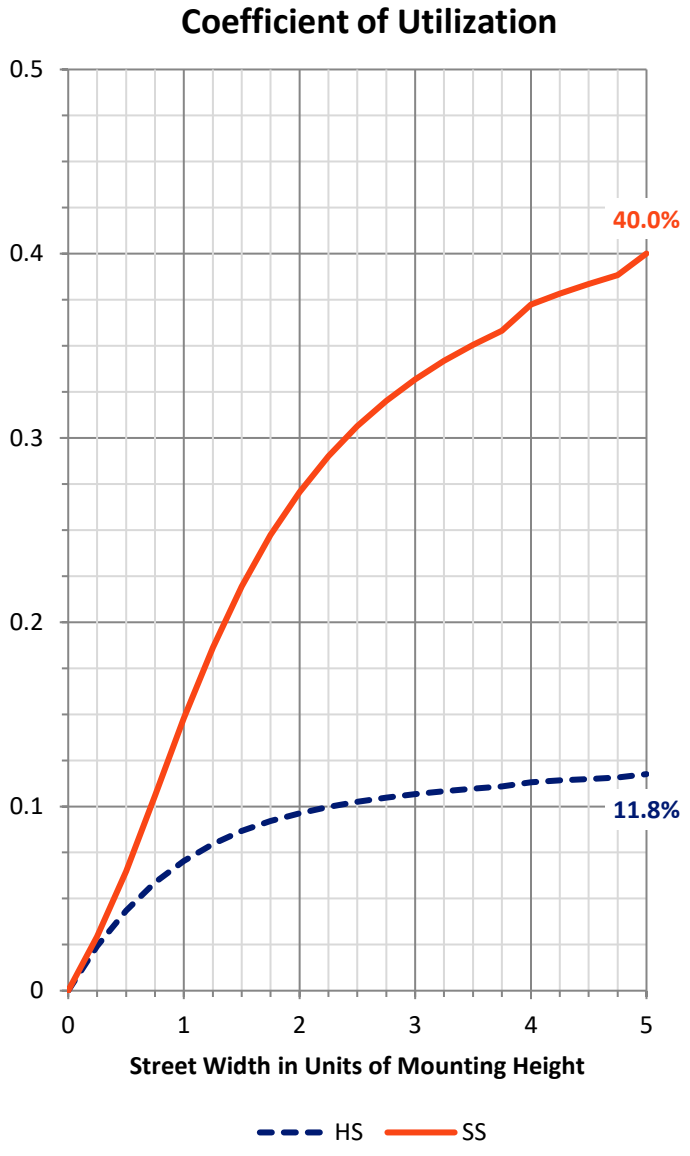
REPORT NUMBER: P1045992
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	301.4	239.0	540.4
	% Fixture	12.8	10.2	23.0
Street Side	Lumens	1099.5	707.3	1806.8
	% Fixture	46.8	30.1	77.0
Total	Lumens	1400.9	946.3	2347.2
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.1
10°-20°	4.9	0.2
20°-30°	22.3	0.9
30°-40°	74.5	3.2
40°-50°	151.9	6.5
50°-60°	233.7	10.0
60°-70°	290.8	12.4
70°-80°	311.0	13.2
80°-90°	310.4	13.2
90°-100°	280.5	12.0
100°-110°	245.4	10.5
110°-120°	167.3	7.1
120°-130°	118.1	5.0
130°-140°	71.6	3.1
140°-150°	36.3	1.5
150°-160°	16.9	0.7
160°-170°	7.8	0.3
170°-180°	2.4	0.1
0°-90°	1400.9	59.7
0°-180°	2347.2	100.0



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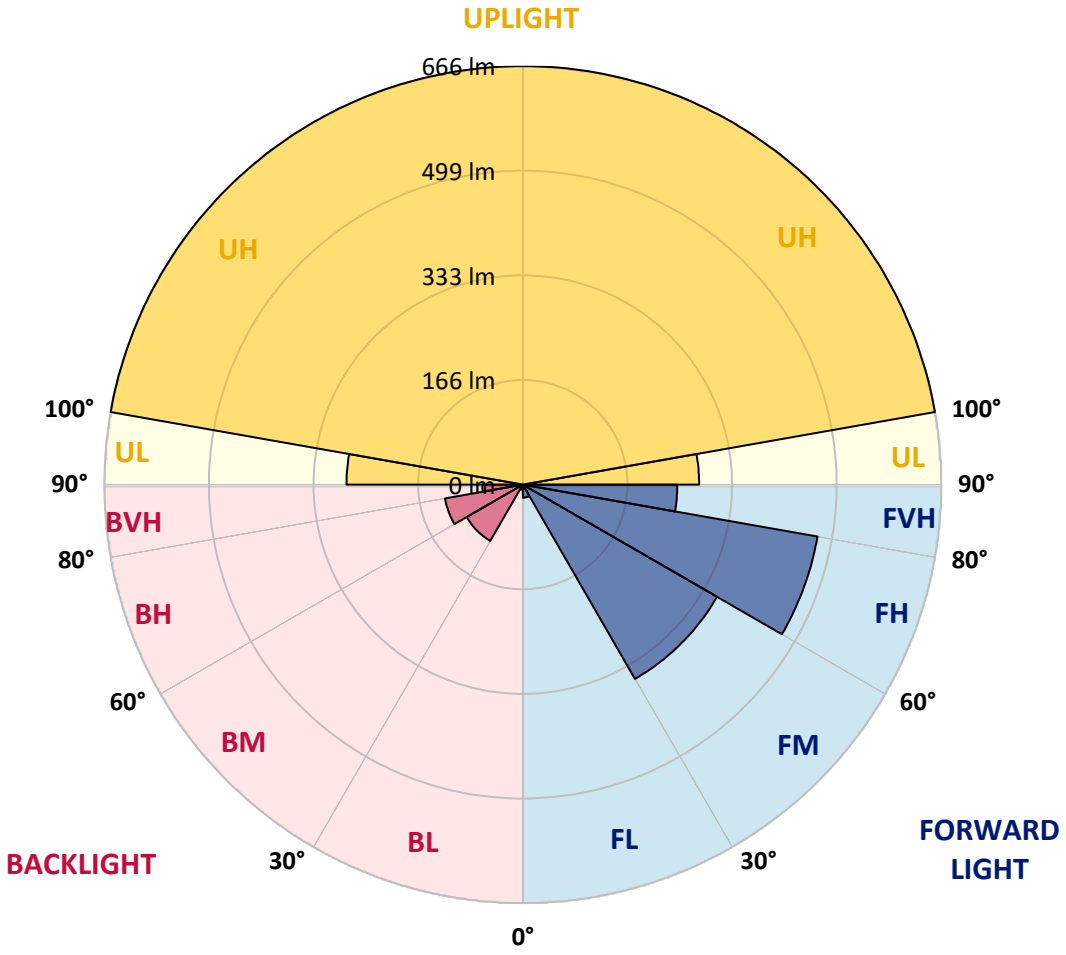
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	20.8	0.9			
FM	(30°-60°)	356.8	15.2			
FH	(60°-80°)	476.1	20.3			G0/660
FVH	(80°-90°)	245.8	10.5			G3/500
BL	(0°-30°)	8.0	0.3	B0/110		
BM	(30°-60°)	103.2	4.4	B0/220		
BH	(60°-80°)	125.6	5.4	B1/500		G1/500
BVH	(80°-90°)	64.6	2.8			G1/100
UL	(90°-100°)	280.5	12.0		U3/500	
UH	(100°-180°)	665.8	28.4		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19.1	19.1	*19.1*	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
2.5°	20.6	20.6	*20.6*	20.6	20.6	20.6	20.4	19.9	19.6	19.4	19.1
5°	19.6	19.6	*19.6*	19.6	19.6	19.6	19.6	19.4	19.1	18.6	18.1
7.5°	19.6	19.6	*19.6*	19.6	19.4	19.1	18.9	18.6	18.4	17.3	16.3
10°	21.4	21.7	*21.4*	21.4	20.6	19.9	19.4	18.6	18.1	17.6	16.3
12.5°	22.7	22.7	*22.7*	22.4	21.9	21.4	20.4	19.1	18.1	17.1	16.1
15°	23.5	23.5	*23.5*	23.5	22.9	22.2	21.4	20.4	19.4	18.1	16.8
17.5°	26.5	26.5	*26.5*	26.3	25.7	25.2	24.7	24.2	23.5	22.2	20.9
20°	34.9	35.7	*35.4*	34.7	34.2	33.6	33.9	33.4	32.9	31.1	29.1
22.5°	48.4	49.5	*49.2*	49.5	48.7	48.2	47.9	48.4	47.4	44.9	41.0
25°	68.1	68.1	*67.3*	69.3	69.6	67.0	67.5	67.3	66.5	61.9	55.8
27.5°	90.0	89.5	*89.2*	92.5	93.0	92.0	93.0	91.3	88.7	83.6	76.0
30°	115.5	117.5	*118.5*	119.0	120.6	121.6	122.9	121.3	114.4	108.3	97.6
32.5°	147.8	146.6	*146.3*	151.7	154.5	154.7	157.8	153.4	145.8	134.3	120.3
35°	183.5	180.5	*181.0*	184.3	188.9	192.2	194.5	186.1	178.2	163.1	144.8
37.5°	217.2	217.4	*217.2*	218.4	227.1	228.1	228.6	219.2	207.7	192.2	169.3
40°	251.6	252.1	*253.4*	257.4	266.6	264.8	260.8	252.3	237.6	220.0	193.0
42.5°	287.0	290.3	*291.1*	293.1	299.5	299.0	292.1	282.7	265.6	243.7	213.3
45°	325.0	324.5	*325.8*	328.6	333.7	333.7	321.4	307.7	289.1	264.3	231.7
47.5°	360.9	364.8	*362.5*	369.3	366.8	368.6	347.7	330.9	310.5	281.2	247.0
50°	406.3	408.3	*407.6*	406.8	399.2	399.2	377.8	355.1	332.1	297.5	262.3
52.5°	444.8	445.6	*444.3*	441.2	430.5	427.0	401.7	375.5	351.2	316.6	277.1
55°	480.5	475.4	*477.7*	472.8	456.0	452.2	428.2	391.0	368.1	330.3	289.8
57.5°	506.7	509.5	*510.3*	499.9	483.0	467.5	451.4	409.6	380.8	343.3	298.2
60°	529.2	536.8	*536.3*	520.5	505.7	477.9	469.0	425.9	389.2	354.8	307.4
62.5°	546.0	554.1	*553.6*	540.9	527.6	488.6	478.7	435.6	394.3	360.7	314.3
65°	562.6	566.4	*564.6*	559.5	543.7	498.6	487.9	440.0	398.7	363.2	316.8
67.5°	579.4	579.1	*578.9*	571.7	554.7	507.8	495.3	446.3	403.0	366.0	318.6
70°	587.8	588.3	*588.0*	573.0	557.2	513.9	499.3	449.6	404.0	366.0	320.2
71°	*588.3*	*589.1*	*589.6*	*571.5*	*554.9*	*514.4*	*499.6*	*449.6*	*403.0*	*365.3*	*319.4*
72.5°	584.7	588.6	*588.0*	567.7	551.6	513.6	497.8	447.6	401.5	362.2	317.1
75°	576.8	583.7	*580.7*	560.0	543.2	508.5	493.0	445.6	397.6	358.1	315.1
77.5°	570.0	577.9	*572.8*	553.6	538.6	505.0	490.4	446.1	394.8	355.6	314.3
80°	565.4	569.7	*565.6*	549.8	534.8	500.9	488.6	446.3	394.1	354.3	312.0
82.5°	558.5	556.7	*553.9*	541.4	526.1	493.5	481.5	442.2	392.3	351.8	309.4
85°	552.4	545.0	*545.0*	533.8	518.2	487.6	473.1	437.4	389.2	349.2	306.4
87.5°	555.9	546.0	*548.0*	537.3	520.2	488.4	471.6	436.9	390.5	349.7	304.6
90°	552.4	542.9	*544.0*	532.7	512.9	480.5	460.1	426.7	382.3	342.6	298.2
92.5°	546.2	536.3	*534.8*	523.3	503.2	472.6	451.2	420.1	376.0	337.0	295.9
95°	499.1	492.0	*488.9*	480.7	465.2	438.4	421.6	391.8	347.9	312.2	276.8
97.5°	450.7	451.9	*447.6*	437.9	420.8	399.9	381.3	352.8	315.8	285.0	250.6
100°	469.8	468.0	*463.7*	450.7	432.8	409.4	387.4	359.9	324.0	296.2	258.2
102.5°	490.7	494.8	*493.0*	476.7	456.5	437.7	421.1	393.6	354.1	324.7	284.2
105°	433.6	441.7	*443.5*	430.8	416.0	400.2	385.7	366.3	332.1	302.1	270.2
107.5°	378.0	379.3	*380.6*	370.9	363.5	349.5	334.9	317.3	291.3	268.4	237.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
110°	339.5	340.8	*338.8*	334.7	327.0	316.3	300.3	288.0	265.3	246.0	217.7
112.5°	308.9	310.2	*308.7*	303.6	296.7	288.3	271.5	261.3	241.9	223.8	198.3
115°	289.3	290.8	*288.3*	282.9	277.1	272.5	258.0	242.9	225.3	209.3	187.3
117.5°	270.7	273.8	*267.9*	266.4	262.0	257.4	240.9	227.6	212.3	197.8	180.2
120°	250.3	252.9	*248.0*	246.2	243.7	239.1	223.5	211.6	199.3	186.3	169.5
122.5°	234.0	230.4	*228.1*	228.1	225.1	222.0	206.0	196.0	186.3	175.4	158.0
125°	215.4	210.5	*209.5*	211.3	207.5	203.4	190.7	181.7	174.4	163.4	146.3
127.5°	194.5	189.9	*189.9*	190.7	188.4	184.3	175.9	168.5	163.9	152.2	135.1
130°	174.9	172.3	*172.8*	171.0	168.7	165.4	159.3	154.0	150.1	138.4	126.2
132.5°	151.4	154.2	*154.2*	151.2	150.6	148.1	143.3	140.7	134.8	125.2	115.0
135°	134.8	137.1	*136.9*	134.1	133.8	132.3	128.7	126.4	120.8	112.7	104.3
137.5°	120.8	120.8	*120.3*	118.5	117.5	117.3	113.9	111.6	106.3	100.7	93.8
140°	107.1	104.8	*104.0*	104.3	102.7	102.5	99.7	96.9	94.3	89.0	83.4
142.5°	92.8	91.3	*90.5*	89.5	89.0	88.2	86.4	84.1	81.6	78.0	72.9
145°	79.3	79.3	*78.8*	77.7	77.7	76.7	74.9	73.7	71.4	67.5	63.5
147.5°	68.8	68.1	*68.1*	67.8	67.0	66.5	65.0	63.2	61.7	58.6	54.8
150°	59.1	59.1	*58.6*	59.1	58.6	57.9	56.8	55.3	53.5	51.2	48.2
152.5°	51.5	51.7	*51.2*	52.0	51.5	51.0	49.7	48.7	46.6	44.6	42.6
155°	45.9	46.1	*45.9*	45.6	45.6	44.9	44.4	42.8	41.5	39.8	38.0
157.5°	40.8	41.0	*41.0*	41.0	41.0	40.3	39.3	38.2	37.2	35.7	34.2
160°	37.5	37.2	*37.2*	37.0	36.7	36.5	35.7	34.7	33.9	32.6	31.4
162.5°	34.2	34.2	*34.2*	33.9	33.6	33.4	32.9	31.9	31.1	30.1	29.1
165°	31.9	31.9	*31.9*	31.9	31.4	31.1	30.6	29.8	29.3	28.3	27.3
167.5°	30.3	30.3	*30.3*	30.1	29.8	29.6	29.3	28.5	28.0	27.3	26.5
170°	29.1	29.1	*29.1*	29.1	28.8	28.3	28.0	27.5	27.0	26.5	25.7
172.5°	27.8	27.8	*27.8*	27.8	27.5	27.5	27.3	26.8	26.5	25.7	25.5
175°	26.8	26.8	*26.8*	26.8	26.5	26.5	26.3	26.0	25.7	25.5	25.0
177.5°	26.0	26.0	*26.0*	26.0	25.7	25.7	25.7	25.5	25.2	25.0	25.0
180°	25.0	25.0	*25.0*	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
2.5°	19.1	19.1	18.6	18.4	18.1	17.6	17.1	16.3	16.3	16.3	16.1
5°	17.8	17.6	17.1	16.3	16.1	15.8	15.3	14.3	13.0	12.0	12.0
7.5°	16.6	15.3	14.0	13.5	12.7	11.5	10.2	8.7	6.9	6.6	6.6
10°	15.5	14.8	13.3	12.0	10.7	10.5	9.4	7.9	7.1	6.4	6.4
12.5°	15.3	14.8	13.0	11.5	9.9	9.2	8.4	7.6	6.9	6.4	6.4
15°	16.1	15.5	13.8	12.0	10.2	9.2	8.2	7.4	7.1	6.9	6.9
17.5°	20.1	19.4	16.8	14.0	11.7	10.2	8.9	8.2	7.9	7.6	7.6
20°	27.3	26.0	22.4	18.6	15.0	11.7	9.9	8.7	8.4	8.2	8.2
22.5°	38.7	36.5	30.3	24.5	19.1	14.8	11.5	9.2	8.4	8.2	8.2
25°	52.8	49.7	40.8	32.1	24.2	18.9	14.0	10.5	8.4	7.9	7.9
27.5°	71.4	66.0	54.0	43.1	32.4	24.0	17.6	12.5	9.2	7.9	7.6
30°	91.0	84.4	69.1	54.5	41.0	30.1	21.7	15.0	10.5	7.9	7.6
32.5°	112.4	103.5	86.7	68.6	51.0	37.2	26.5	17.6	12.0	8.4	7.9
35°	134.3	124.4	103.5	83.4	61.2	44.4	31.6	20.4	13.0	8.9	8.4
37.5°	156.5	145.3	122.6	96.6	71.1	51.7	36.7	23.5	14.0	9.4	8.9
40°	178.7	165.2	140.2	109.1	80.8	59.1	41.5	26.0	14.8	10.2	9.9
42.5°	196.0	182.3	154.7	119.5	91.0	65.8	46.4	28.0	15.5	11.5	11.0
45°	211.8	197.3	167.0	129.0	98.9	73.7	52.0	31.4	17.1	13.0	12.5
47.5°	227.9	213.6	179.7	138.2	106.5	81.6	58.6	34.9	21.2	16.8	16.6
50°	241.9	226.1	193.5	150.6	116.2	89.0	65.5	39.3	25.0	24.5	24.7
52.5°	255.4	239.6	205.2	159.8	122.9	97.9	72.1	41.0	28.3	28.8	29.3
55°	270.4	252.1	214.6	167.0	126.7	103.7	76.0	42.6	31.4	29.3	28.8
57.5°	280.6	259.5	222.3	174.9	130.8	107.3	76.2	44.4	33.9	28.3	27.5
60°	287.5	263.6	226.3	179.2	136.4	110.6	75.4	44.6	35.4	26.0	23.7
62.5°	292.1	268.9	229.9	180.2	140.7	113.2	75.2	43.6	34.9	23.2	21.4
65°	294.2	273.5	233.2	180.7	141.5	115.0	75.2	43.1	34.2	20.4	18.4
67.5°	294.2	275.0	234.5	181.7	141.0	115.5	72.9	44.6	33.1	19.4	16.8
70°	292.6	274.3	232.7	181.5	142.0	115.0	70.4	44.6	31.6	19.4	16.1
71°	*290.6*	*272.7*	*231.4*	*181.2*	*142.2*	*114.4*	*69.3*	*44.4*	*30.8*	*18.9*	*16.3*
72.5°	287.8	270.4	229.2	180.7	141.5	112.9	67.3	44.6	30.1	18.6	16.6
75°	284.7	268.7	227.4	178.7	141.2	110.6	63.7	43.8	29.8	18.9	17.1
77.5°	283.7	268.9	226.3	178.2	141.2	109.4	61.2	43.3	29.3	19.1	18.1
80°	281.4	268.4	224.3	176.9	140.7	107.1	60.4	43.3	28.8	19.4	18.6
82.5°	279.1	267.1	222.5	175.6	139.9	104.0	59.6	43.1	28.3	20.1	19.6
85°	277.1	266.9	222.5	174.9	139.7	102.2	59.4	42.8	28.0	20.9	20.4
87.5°	277.1	268.2	224.8	176.9	142.0	102.2	60.4	43.3	28.3	21.9	21.7
90°	272.0	262.5	221.3	175.6	142.7	102.5	61.4	44.6	29.3	22.9	22.4
92.5°	270.4	260.0	220.2	176.9	143.8	102.5	62.7	45.9	30.1	23.5	22.9
95°	253.6	241.9	207.2	168.0	137.4	99.7	63.2	45.6	30.6	23.7	23.5
97.5°	230.2	217.4	184.8	149.4	121.6	89.5	57.6	42.8	30.3	24.5	24.0
100°	238.1	223.0	188.9	151.9	119.5	87.7	56.6	41.5	31.1	25.5	25.0
102.5°	260.0	243.7	207.7	168.2	130.3	96.9	63.2	44.1	32.6	26.8	26.0
105°	247.0	228.9	200.6	162.9	126.9	96.9	63.5	44.9	34.2	27.8	27.3
107.5°	218.2	201.4	176.6	145.0	116.2	89.5	60.2	43.6	35.4	29.1	28.3

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

Scaled Data Report

REPORT NUMBER: P1045992
CATALOG NUMBER: FFX-CLB-20-740-U-PG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	201.6	183.5	160.8	132.3	108.1	83.1	57.9	42.8	36.2	30.6	29.6
112.5°	184.0	168.5	146.6	121.6	100.7	76.7	56.3	42.6	36.7	32.1	31.1
115°	174.1	158.0	139.2	115.0	95.8	74.7	55.8	43.8	38.5	34.2	33.1
117.5°	165.4	152.2	135.4	109.9	92.5	73.9	56.8	45.4	39.8	35.9	34.7
120°	156.5	144.3	129.0	105.8	89.7	71.4	57.1	46.1	40.8	37.5	36.7
122.5°	151.2	137.4	122.4	102.2	86.4	69.6	56.8	47.2	41.0	38.2	38.2
125°	141.2	130.3	115.2	97.6	81.6	68.6	56.8	46.6	41.8	39.3	38.7
127.5°	130.3	123.1	108.1	92.5	78.3	66.0	55.3	46.6	41.5	39.3	39.3
130°	120.1	113.7	101.4	85.6	75.2	62.4	53.0	44.4	40.0	38.5	38.5
132.5°	108.6	104.5	93.0	79.0	69.1	58.1	50.0	41.0	37.5	36.2	36.2
135°	98.1	94.3	83.6	71.9	63.0	54.0	46.4	38.7	34.4	32.9	32.9
137.5°	88.4	84.9	75.4	65.5	57.4	50.0	42.8	36.5	32.1	30.3	30.6
140°	78.5	74.2	67.8	59.4	52.0	46.1	39.3	34.2	30.1	28.5	28.3
142.5°	69.6	66.3	60.4	53.3	46.9	42.3	36.2	31.9	28.5	27.0	26.8
145°	61.4	58.6	53.5	47.7	42.6	38.2	33.4	29.8	27.0	25.7	25.5
147.5°	52.8	51.0	47.2	42.6	38.2	34.4	31.1	27.8	26.0	24.5	24.2
150°	46.4	45.1	42.1	38.2	34.9	31.9	29.3	26.3	24.7	23.7	23.5
152.5°	41.3	40.0	37.5	34.7	31.9	29.6	27.3	25.2	23.7	22.9	22.7
155°	37.0	35.9	33.9	31.6	29.3	27.3	25.5	24.0	22.9	22.2	22.2
157.5°	33.6	32.6	31.1	29.1	27.3	25.5	24.2	22.9	22.4	21.7	21.7
160°	30.8	30.1	28.8	27.0	25.5	24.2	23.2	22.2	21.9	21.4	21.4
162.5°	28.5	28.0	26.8	25.5	24.5	23.5	22.7	21.9	21.4	21.2	21.2
165°	27.0	26.5	25.7	24.7	23.7	22.9	22.4	21.7	21.4	21.4	21.2
167.5°	26.3	25.7	25.0	24.0	23.2	22.9	22.4	21.9	21.7	21.7	21.4
170°	25.5	25.2	24.7	24.0	23.2	22.9	22.7	22.2	22.2	21.9	21.9
172.5°	25.2	25.0	24.5	24.0	23.5	23.2	22.9	22.7	22.7	22.7	22.4
175°	25.0	25.0	24.5	24.0	23.7	23.7	23.5	23.2	23.2	23.2	23.2
177.5°	25.0	24.7	24.7	24.5	24.2	24.2	24.2	24.0	24.0	24.0	24.0
180°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

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

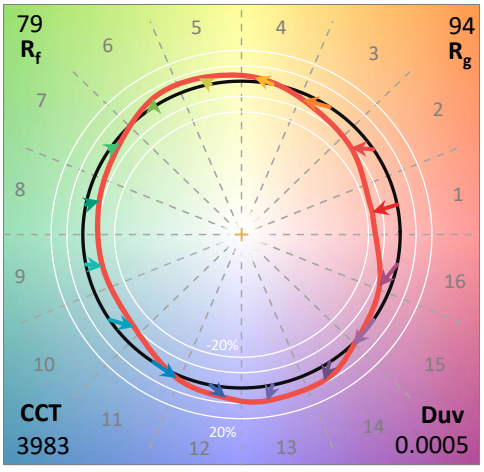
Test Information

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

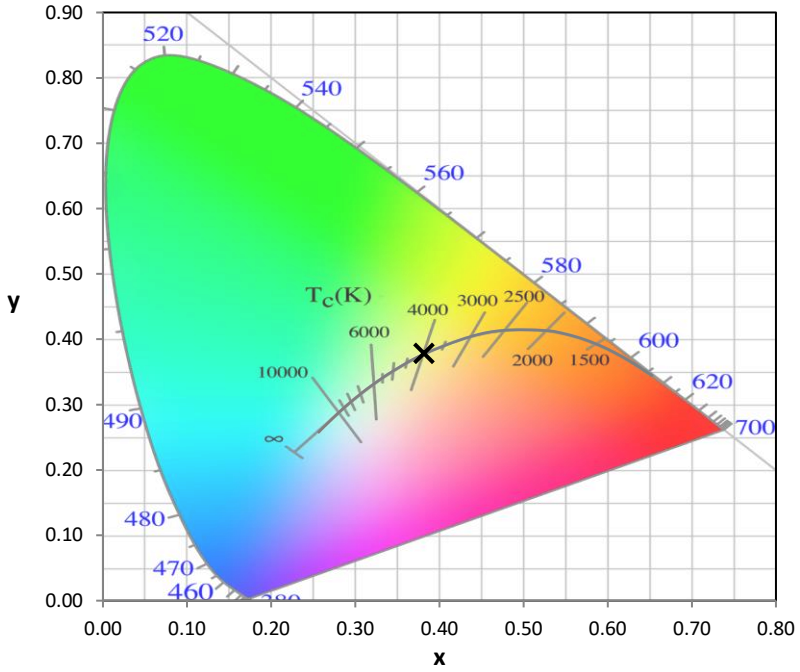
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

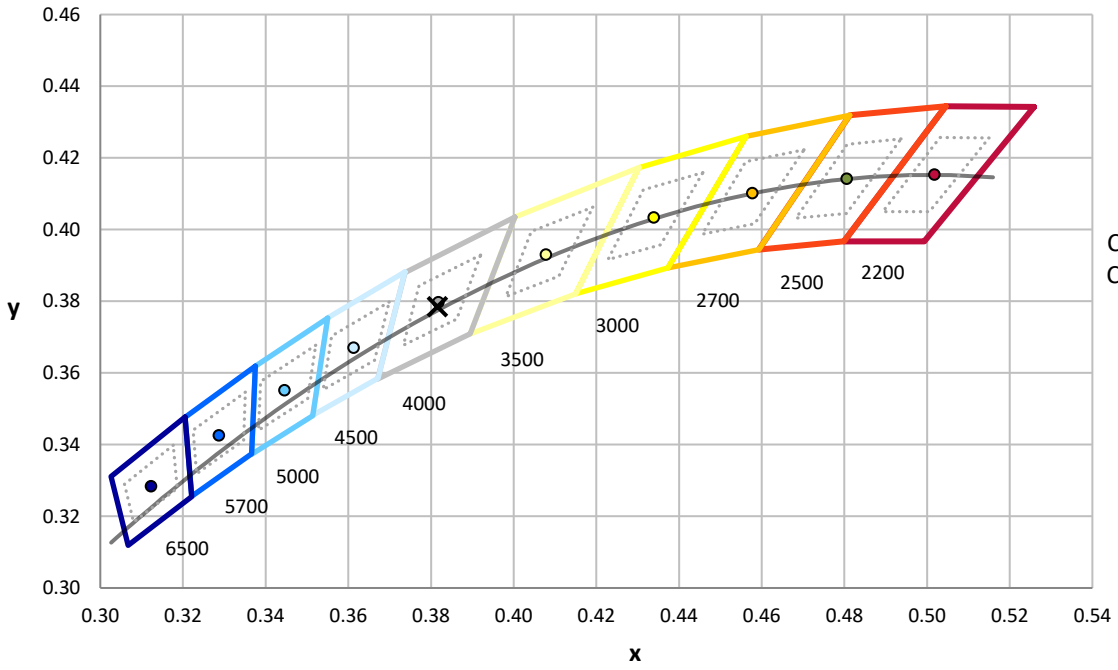
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

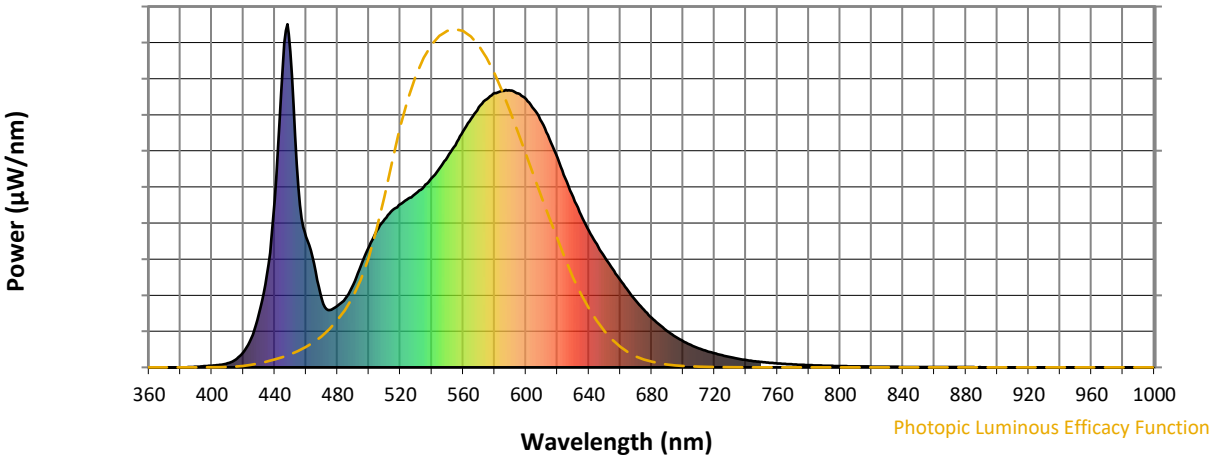


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

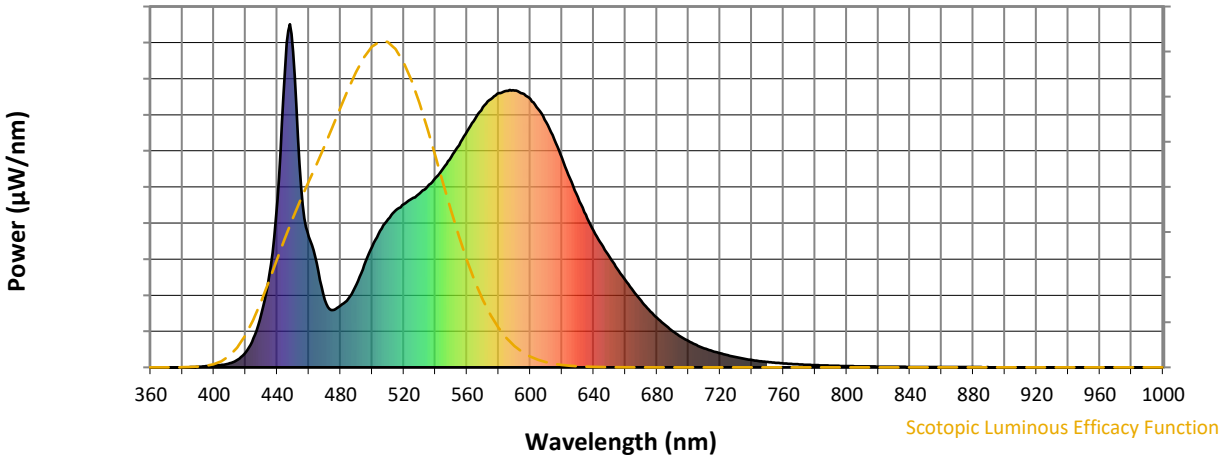


Photopic Lumens: NR

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

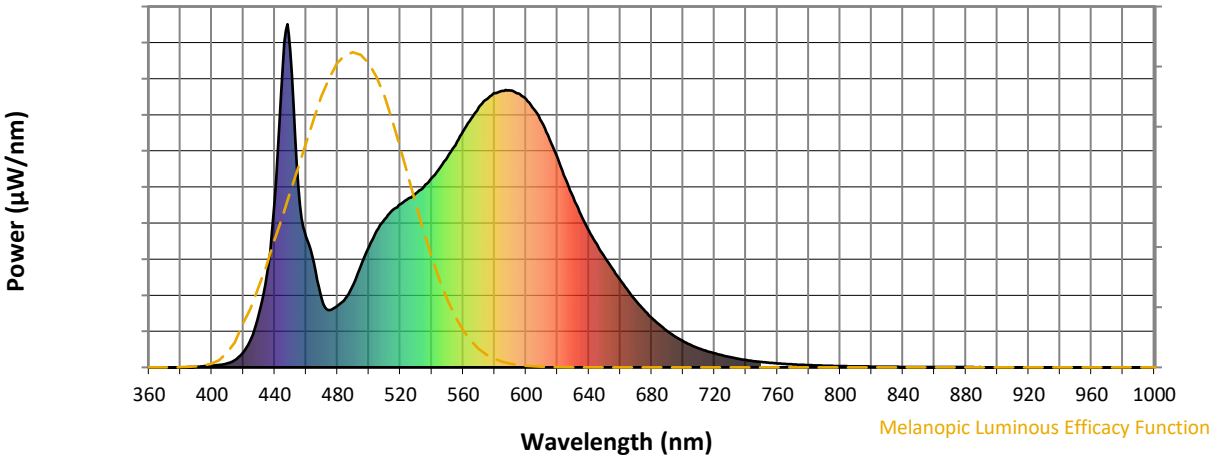


Scotopic Lumens: NR **S/P: 1.61**

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			

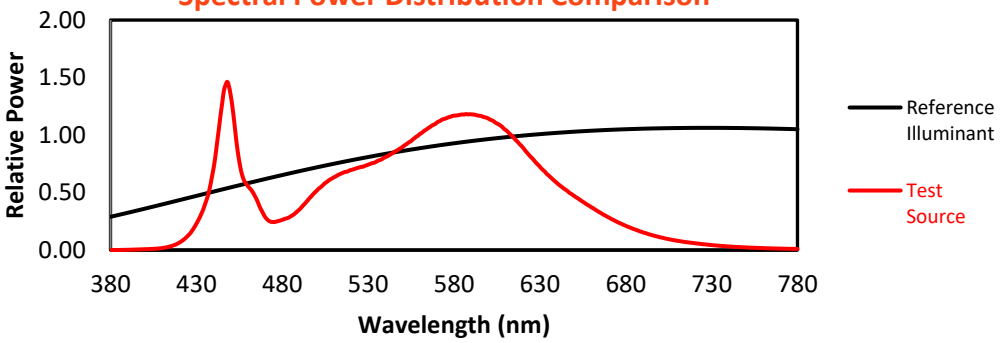
REPORT NUMBER: SP1-2501-332-11

TM-30-18

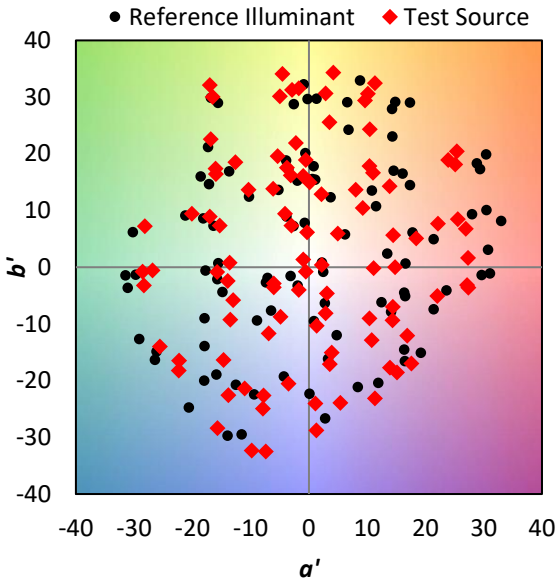
Summary

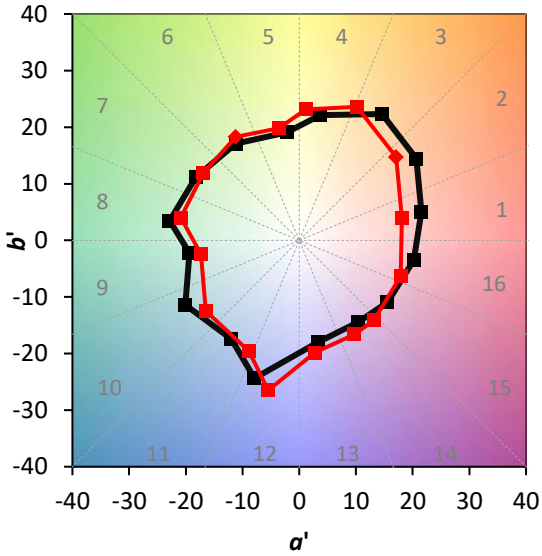
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

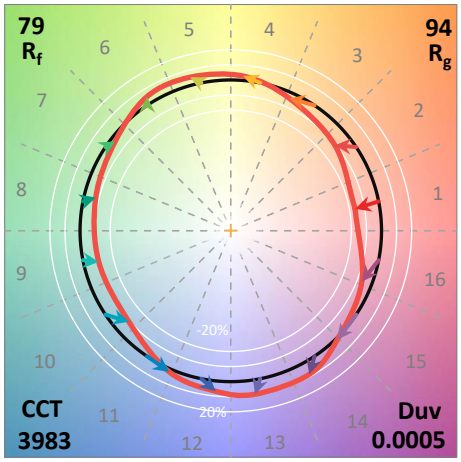
Spectral Power Distribution Comparison

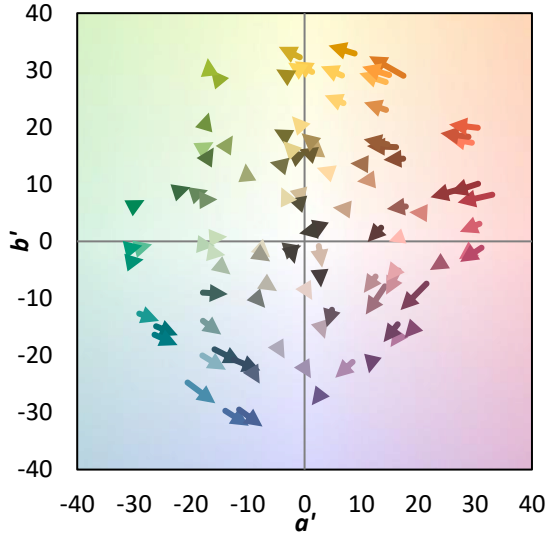


Color Vector Graphics







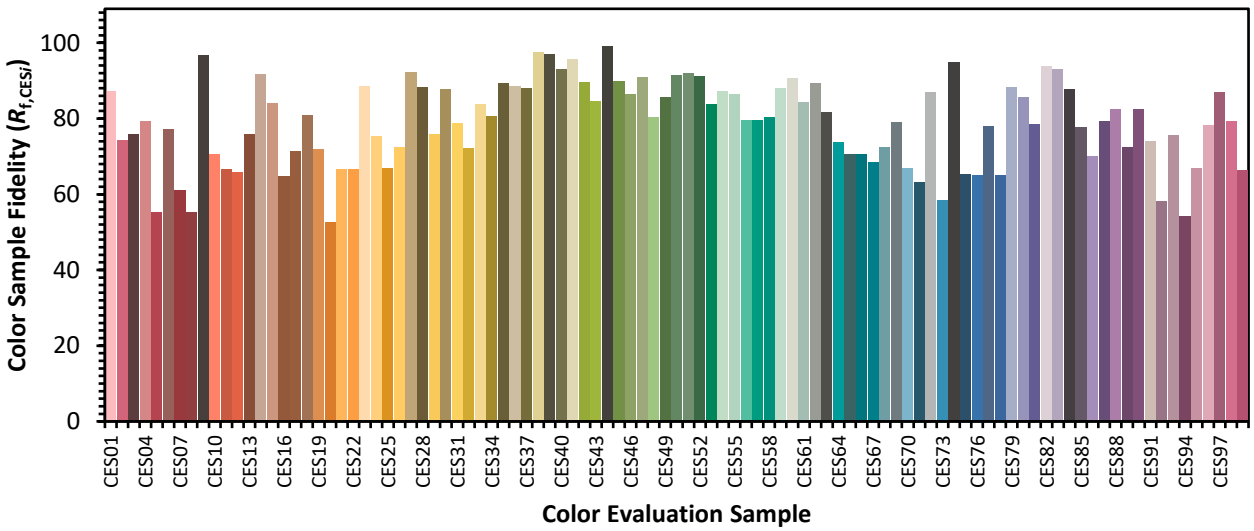


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

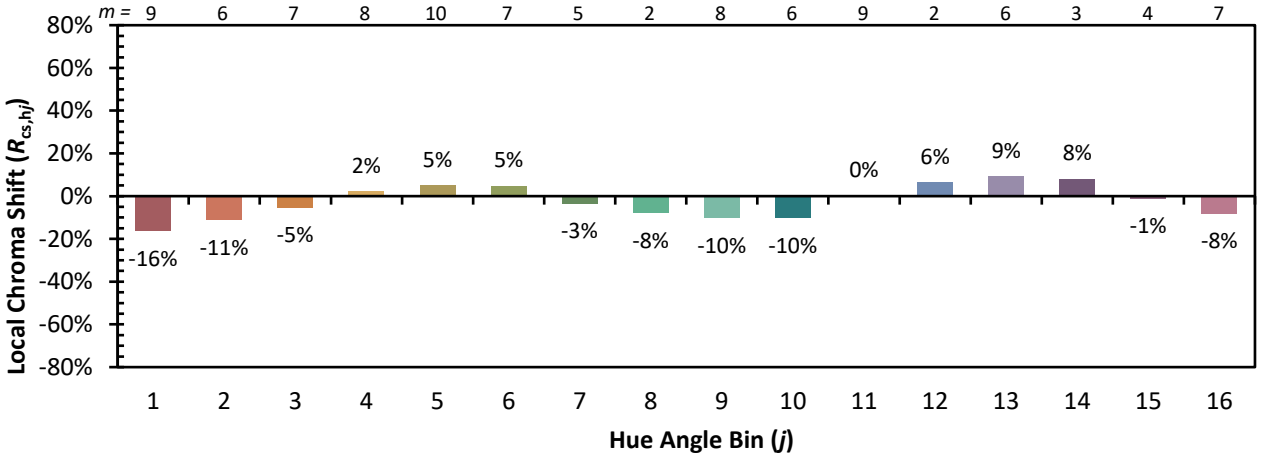
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57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

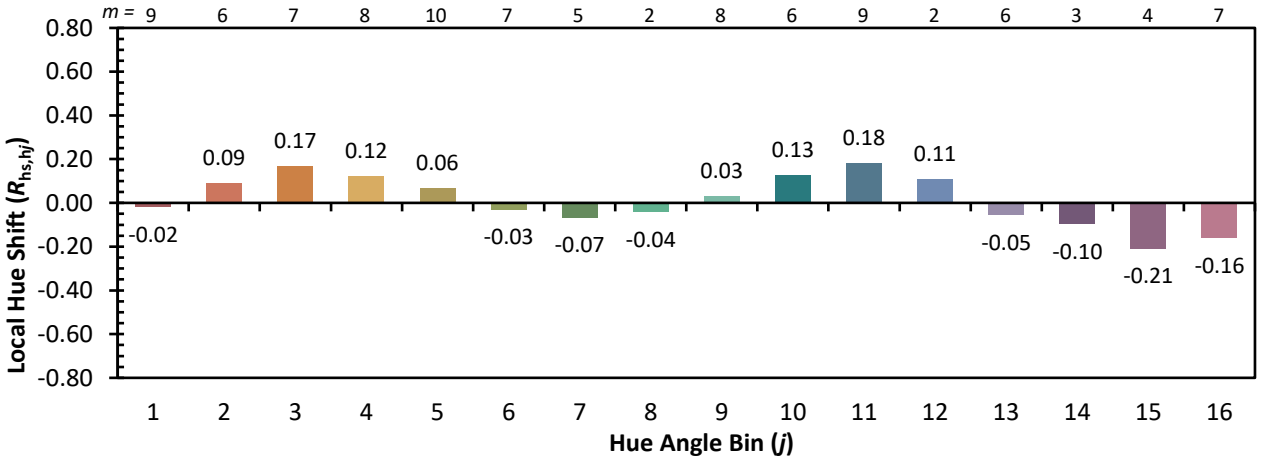


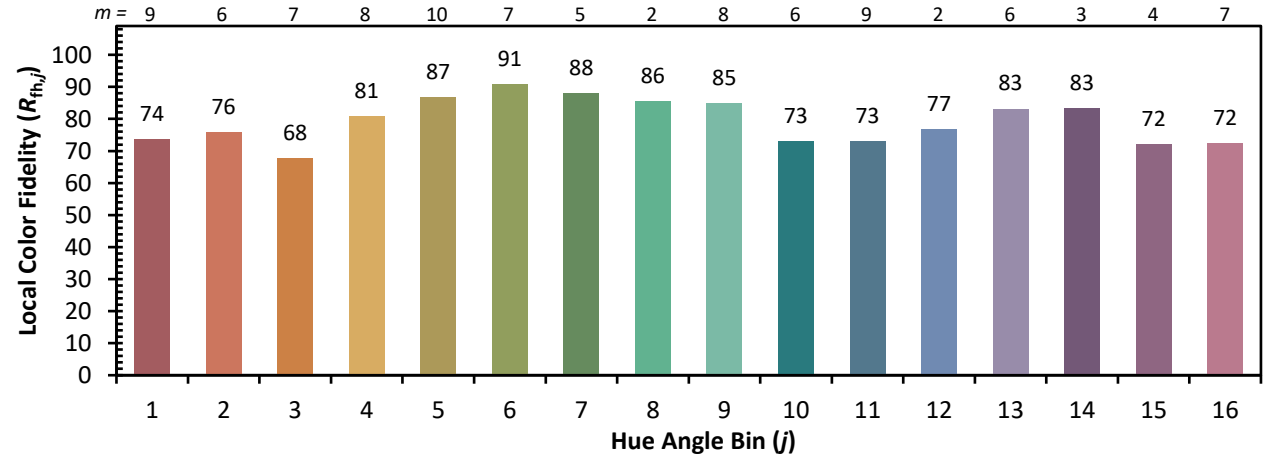
REPORT NUMBER: SP1-2501-332-11

TM-30-18

Color Rendition by Hue-Angle Bin



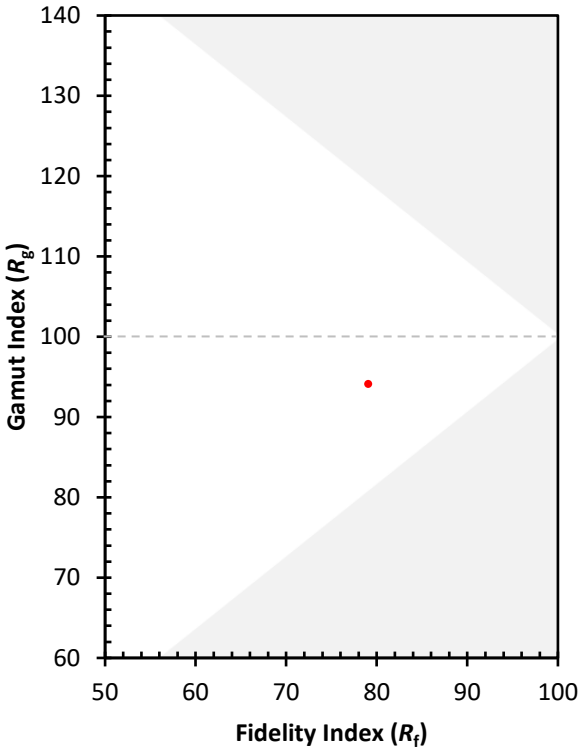


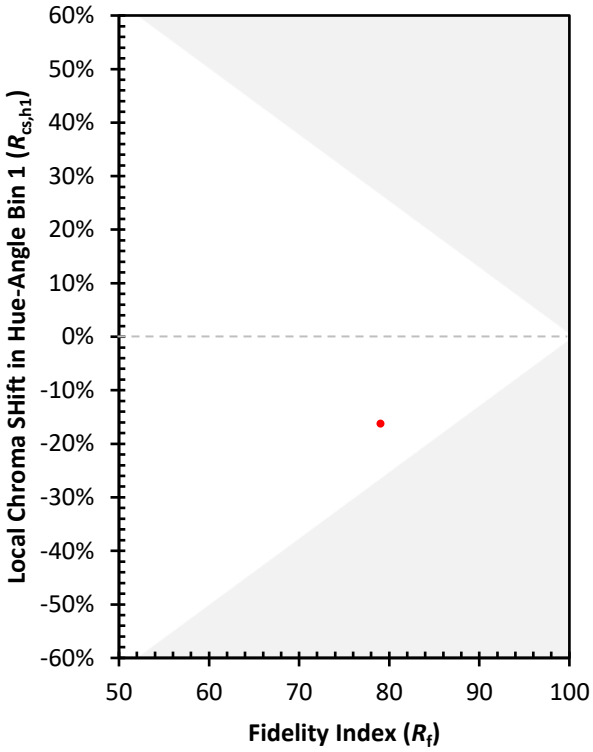


REPORT NUMBER: SP1-2501-332-11

TM-30-18

Measure Comparisons





(END OF REPORT)