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: P1045766

Luminaire Tested: **FFX-CLB-30-740-U-FR-T5-UPLR-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:	P1045766
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-740-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3339.2 lumens
Efficiency:	N/A
Efficacy:	109.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U3 - G2

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

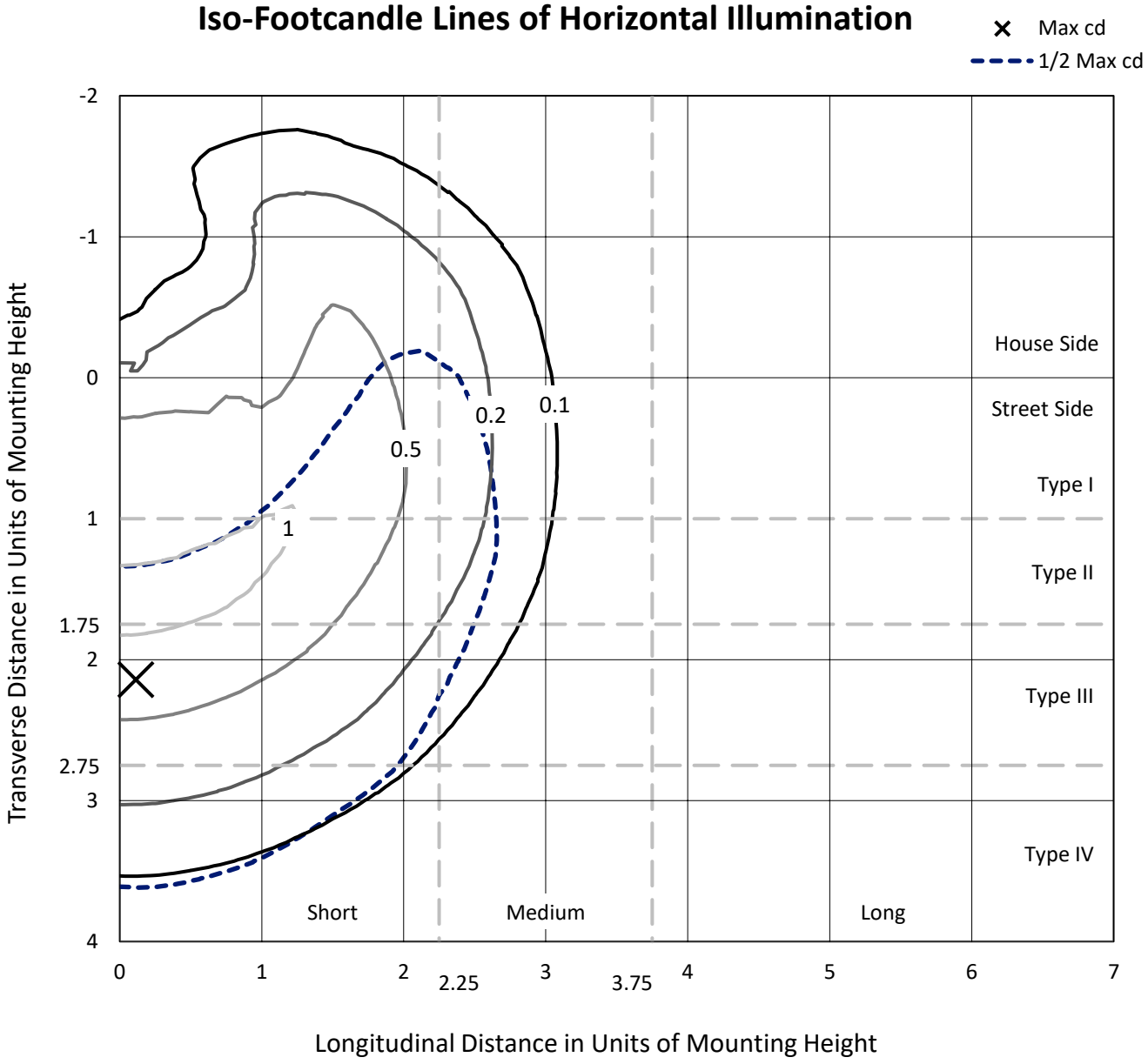


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Iso-Footcandle Lines of Horizontal Illumination



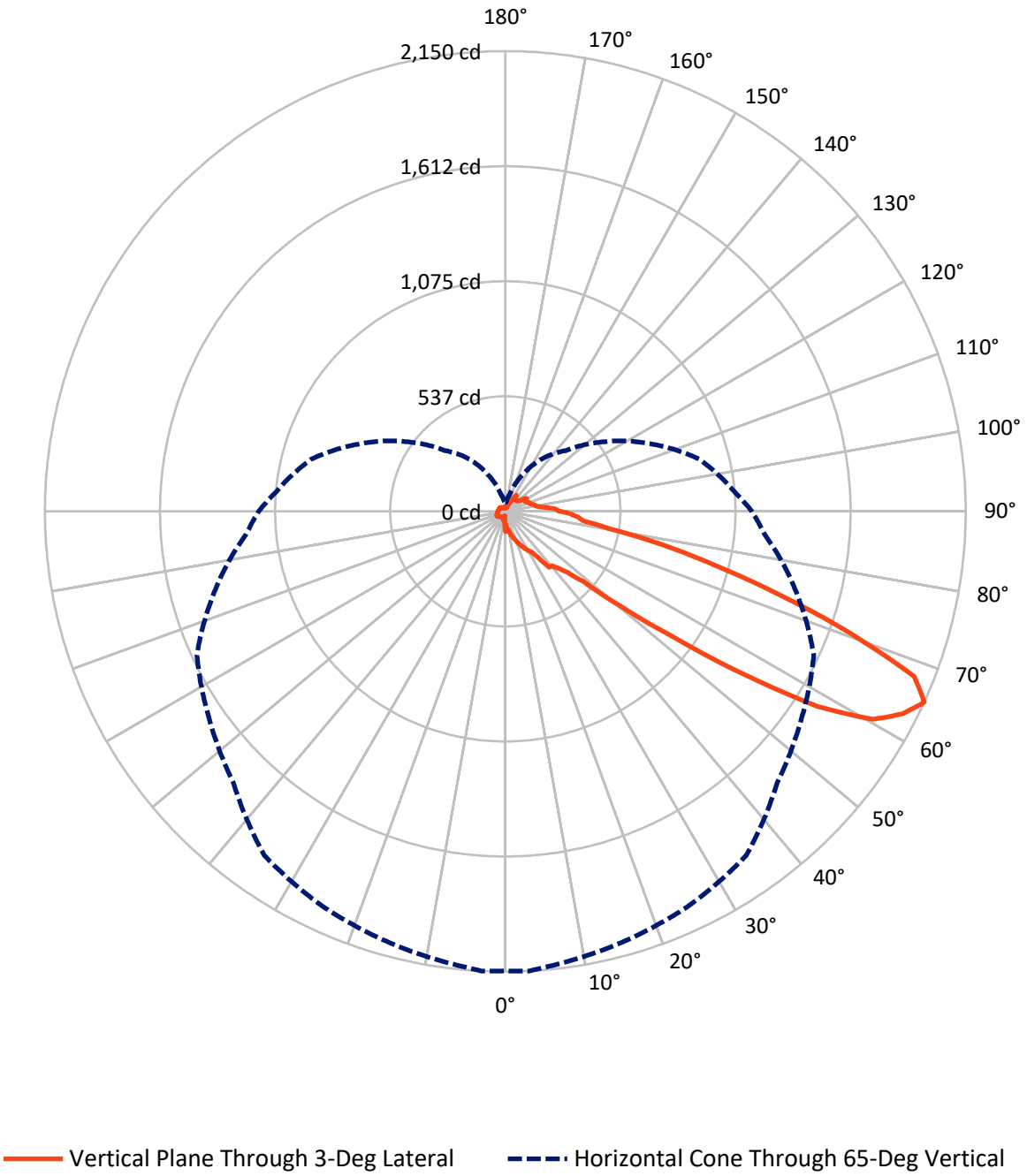
Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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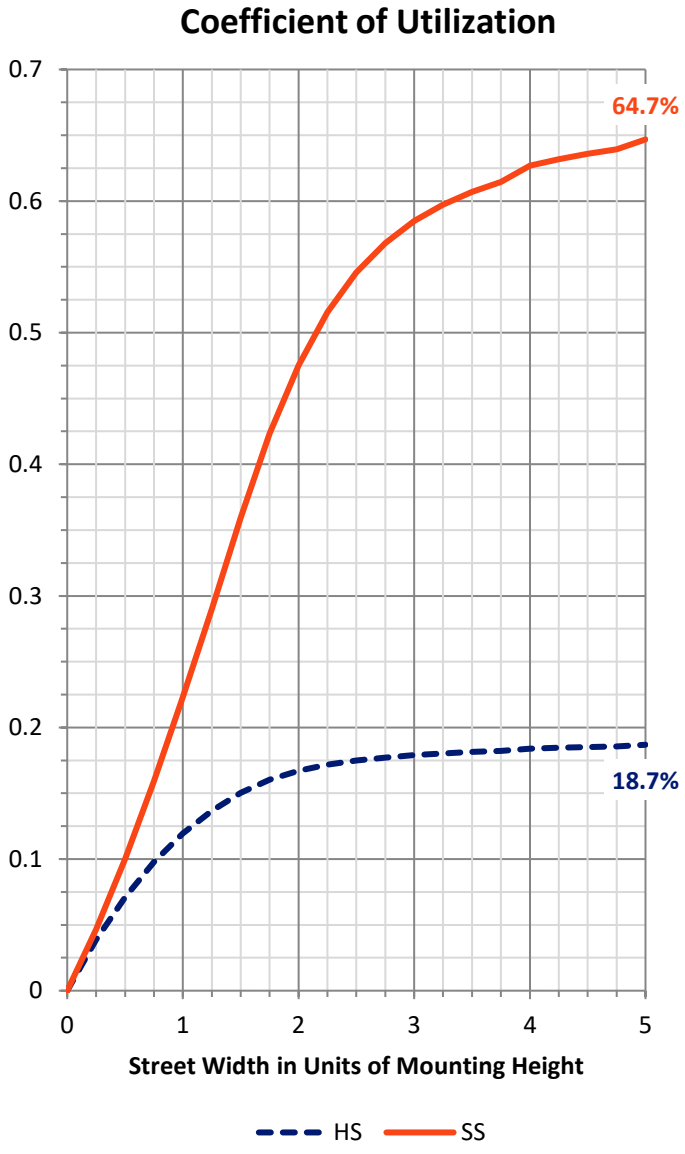
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	646.0	140.5	786.5
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	2252.8	299.9	2552.7
	% Fixture	67.5	9.0	76.4
Total	Lumens	2898.8	440.4	3339.2
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.2
10°-20°	22.7	0.7
20°-30°	50.7	1.5
30°-40°	102.6	3.1
40°-50°	206.1	6.2
50°-60°	661.4	19.8
60°-70°	1054.9	31.6
70°-80°	573.9	17.2
80°-90°	220.5	6.6
90°-100°	131.4	3.9
100°-110°	87.2	2.6
110°-120°	69.5	2.1
120°-130°	57.9	1.7
130°-140°	39.9	1.2
140°-150°	32.2	1.0
150°-160°	14.4	0.4
160°-170°	5.8	0.2
170°-180°	2.0	0.1
0°-90°	2898.8	86.8
0°-180°	3339.2	100.0



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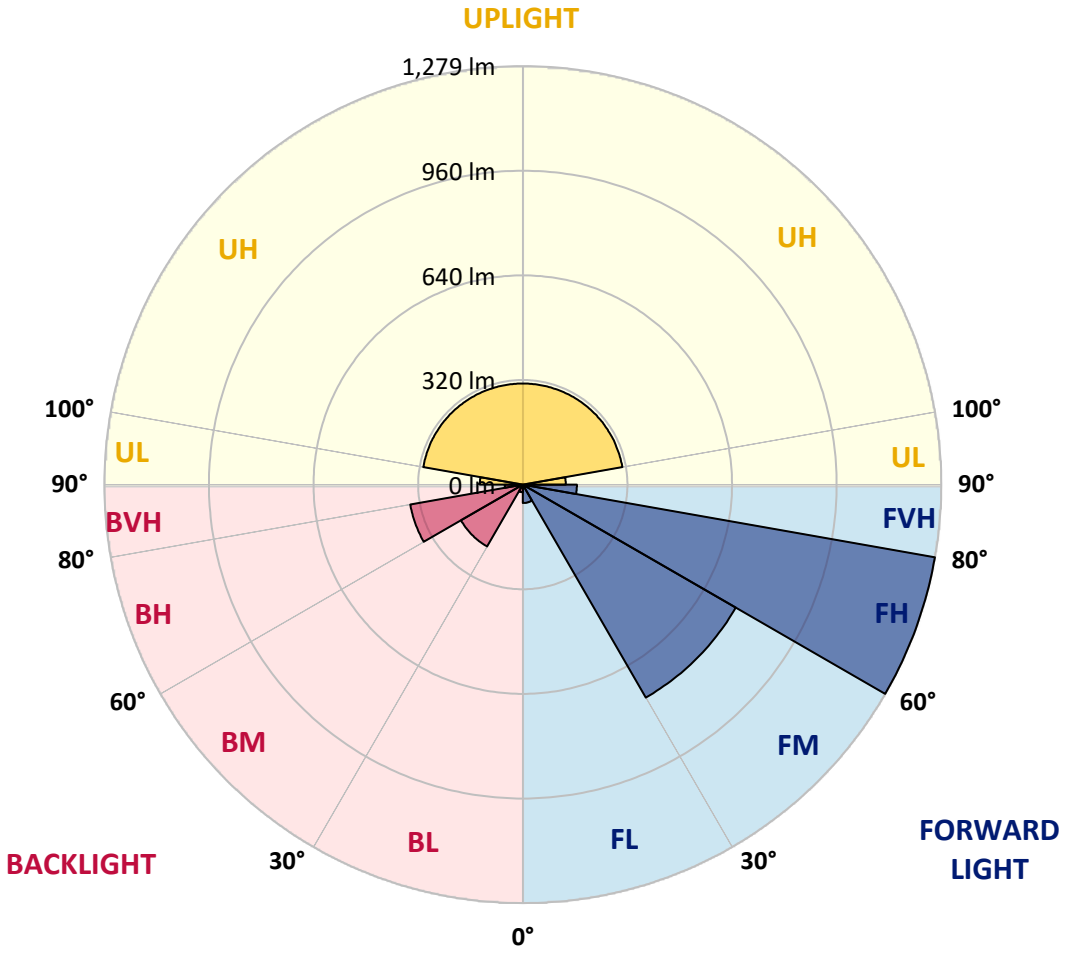
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	56.3	1.7			
FM	(30°-60°)	751.8	22.5			
FH	(60°-80°)	1279.4	38.3			G1/1800
FVH	(80°-90°)	165.3	5.0			G2/225
BL	(0°-30°)	23.2	0.7	B0/110		
BM	(30°-60°)	218.3	6.5	B0/220		
BH	(60°-80°)	349.4	10.5	B1/500		G1/500
BVH	(80°-90°)	55.2	1.7			G1/100
UL	(90°-100°)	131.4	3.9		U3/500	
UH	(100°-180°)	309.0	9.3		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
2.5°	61.0	60.6	61.8	67.1	81.0	85.6	81.7	75.2	74.0	81.0	86.3
5°	83.3	82.5	81.7	76.3	71.0	73.7	81.3	83.3	75.6	61.4	52.2
7.5°	84.4	83.6	84.0	84.0	82.9	77.9	72.1	74.8	81.3	72.5	57.2
10°	94.0	93.6	93.6	93.2	92.1	90.5	90.2	84.4	74.4	66.8	63.7
12.5°	109.7	109.7	109.3	109.0	107.8	105.1	101.7	97.1	94.0	84.8	75.2
15°	122.4	121.2	122.0	120.9	118.9	117.4	113.2	108.2	99.0	92.8	84.4
17.5°	134.7	134.7	135.0	133.1	130.8	129.7	125.1	118.6	109.7	99.0	90.9
20°	150.0	148.9	148.9	146.9	144.3	140.4	136.2	130.4	123.2	108.6	97.8
22.5°	164.6	165.0	165.0	161.9	157.7	154.2	148.5	141.6	134.7	119.7	105.9
25°	181.1	180.7	180.3	179.9	175.7	169.6	162.3	155.0	150.0	135.4	116.2
27.5°	196.4	195.7	195.3	197.2	193.4	187.2	176.5	167.7	162.3	147.3	125.8
30°	213.3	212.9	212.9	213.7	212.2	202.6	191.1	180.7	173.0	158.1	135.0
32.5°	228.3	227.5	227.9	231.0	230.6	218.3	207.9	195.3	185.7	173.8	148.5
35°	265.1	263.6	265.9	270.5	273.9	260.9	246.7	227.1	212.5	200.3	174.2
37.5°	331.5	331.9	332.6	326.5	313.4	303.9	297.0	281.2	263.2	242.5	211.8
40°	334.2	333.8	335.7	344.9	350.3	333.8	317.7	299.3	294.7	277.0	237.9
42.5°	365.2	362.9	364.9	373.7	381.0	371.0	356.8	325.7	308.8	293.1	260.9
45°	409.7	407.1	410.5	412.1	410.5	399.8	402.1	376.8	361.0	329.2	284.3
47.5°	477.7	489.9	491.9	492.2	507.6	493.0	483.8	459.6	423.9	386.0	334.9
50°	670.6	690.6	683.7	677.2	678.3	667.2	654.5	621.1	573.2	509.1	436.2
52.5°	957.2	949.6	950.7	954.9	965.7	916.2	894.7	844.4	766.9	690.2	585.1
55°	1307.9	1320.9	1320.2	1334.0	1332.1	1278.7	1210.8	1126.4	1013.6	901.2	776.9
57.5°	1741.4	1718.4	1703.1	1677.7	1655.9	1583.4	1538.5	1447.2	1297.9	1129.1	969.5
60°	1984.7	1972.0	1968.2	1933.3	1903.3	1814.3	1721.9	1622.9	1506.2	1306.7	1125.7
62.5°	2076.0	2082.1	2076.7	2054.1	2034.2	1956.3	1800.9	1693.1	1588.7	1396.9	1206.2
65°	2146.2	2149.6	2137.4	2086.0	2031.5	1961.7	1794.4	1688.1	1589.1	1400.4	1213.9
67.5°	2060.3	2059.5	2049.9	1975.8	1883.8	1814.7	1662.8	1548.4	1464.4	1306.7	1126.8
70°	1710.7	1713.0	1715.0	1660.5	1559.6	1508.2	1354.3	1256.1	1183.6	1047.4	918.1
72.5°	1339.4	1346.3	1349.3	1306.7	1231.9	1179.0	1076.2	1002.5	935.0	826.8	725.1
75°	1007.5	1014.4	1012.5	986.0	933.4	918.9	869.0	806.1	749.7	665.6	579.7
77.5°	755.8	750.1	748.5	722.8	671.0	674.9	660.7	624.6	580.9	531.4	471.5
80°	500.7	495.7	485.7	494.5	490.3	478.0	454.6	436.2	419.0	389.4	356.8
82.5°	368.3	366.8	364.9	359.1	355.3	352.2	341.8	312.3	291.6	274.7	255.1
85°	344.5	339.9	340.7	330.7	318.8	308.1	300.0	287.4	271.2	244.8	216.4
87.5°	300.8	300.8	298.5	291.6	279.7	277.0	271.2	262.4	252.8	232.5	207.2
90°	250.1	248.6	248.6	248.2	245.5	243.6	232.5	224.4	220.2	199.9	182.2
92.5°	231.0	230.2	228.7	226.7	219.1	217.5	206.4	196.0	186.8	174.2	160.4
95°	187.6	189.1	185.7	185.3	181.5	179.2	170.3	165.4	159.2	148.9	136.2
97.5°	158.5	156.1	156.5	153.1	149.2	147.7	142.3	135.0	129.3	121.2	112.0
100°	145.4	145.0	144.3	141.6	136.2	132.7	127.0	120.1	114.3	107.0	99.4
102.5°	137.0	136.6	136.2	133.9	127.8	125.8	120.5	115.1	110.1	103.6	93.6
105°	128.5	128.1	127.4	124.7	120.9	118.9	113.9	110.9	105.9	100.1	90.5
107.5°	120.9	120.9	120.5	117.4	115.1	113.6	108.6	105.9	100.5	95.5	86.3
110°	117.0	117.0	116.6	114.3	109.7	107.4	102.8	99.4	94.4	89.4	82.1

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	112.8	*113.2*	113.2	113.9	102.8	98.6	94.8	92.1	87.9	83.3	77.1
115°	103.2	*103.6*	103.2	107.0	103.2	97.4	95.1	90.5	85.2	77.9	71.4
117.5°	104.0	*104.0*	104.7	106.7	104.7	99.4	94.4	88.6	84.0	76.7	71.0
120°	117.8	*117.0*	117.0	113.2	112.4	107.4	104.0	97.8	90.2	82.9	74.8
122.5°	113.2	*112.8*	113.2	107.0	106.7	105.5	104.4	103.2	93.2	89.0	78.7
125°	90.5	*89.8*	89.4	87.1	90.9	88.2	87.5	90.2	83.6	79.8	74.0
127.5°	81.0	*80.2*	79.8	79.0	81.3	76.7	76.0	76.7	71.7	67.1	63.7
130°	77.5	*76.3*	76.3	79.0	82.5	78.7	74.4	71.4	69.4	66.4	60.6
132.5°	73.3	*73.3*	73.7	77.1	83.3	79.0	71.4	65.2	64.5	64.8	62.2
135°	72.1	*71.7*	72.1	71.0	70.6	68.3	64.8	59.9	58.7	61.8	58.7
137.5°	74.0	*73.7*	73.3	70.2	66.8	64.8	64.1	61.0	57.9	56.0	52.9
140°	73.3	*73.3*	72.9	72.1	69.8	66.0	65.2	62.2	59.1	55.6	51.8
142.5°	74.4	*75.6*	76.3	77.1	76.3	72.1	67.9	62.9	59.5	57.5	53.3
145°	91.7	*91.7*	91.7	90.2	87.5	84.0	81.0	77.5	74.8	68.7	62.9
147.5°	76.0	*76.0*	75.6	76.0	76.0	74.4	74.0	72.9	73.3	70.2	64.5
150°	52.6	*53.7*	53.7	55.6	56.4	55.6	55.6	56.4	55.2	54.9	51.8
152.5°	42.6	*42.2*	41.4	42.2	42.2	42.6	42.6	41.8	41.4	41.4	39.5
155°	37.6	*37.6*	37.6	37.2	36.4	36.8	37.2	37.2	36.1	35.3	33.8
157.5°	29.9	*29.5*	29.5	30.3	30.3	30.3	30.3	30.3	30.3	30.7	31.1
160°	25.3	*24.6*	24.9	24.9	25.3	25.7	25.3	25.7	25.7	26.1	25.7
162.5°	20.7	*20.3*	20.3	20.7	21.1	21.5	21.9	21.9	22.3	23.0	23.4
165°	18.4	*18.4*	18.4	18.8	18.8	19.2	19.6	20.0	20.7	21.9	22.3
167.5°	17.3	*17.3*	17.3	17.3	17.6	18.0	18.8	20.0	20.7	21.9	21.9
170°	16.9	*16.9*	17.3	17.3	17.3	17.6	19.2	20.3	20.7	21.1	21.1
172.5°	17.6	*17.6*	17.6	17.6	17.6	18.4	20.3	20.7	20.7	20.7	21.1
175°	18.4	*18.4*	18.0	18.0	18.4	18.8	19.2	21.1	21.9	22.3	23.0
177.5°	17.3	*17.3*	17.3	17.6	17.6	18.0	18.4	19.2	19.2	20.0	21.1
180°	19.2	*19.2*	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
2.5°	90.2	96.7	88.6	80.2	74.0	77.5	81.3	78.3	74.8	75.2	68.7
5°	54.1	55.6	56.4	49.1	40.7	45.3	55.2	51.8	39.9	22.3	19.2
7.5°	52.2	49.9	49.1	54.5	49.5	33.0	25.7	23.4	31.1	37.2	39.1
10°	61.8	59.1	53.3	43.7	38.7	36.4	35.7	34.1	29.5	23.0	21.9
12.5°	71.0	67.9	62.5	57.9	51.4	43.0	37.6	36.1	38.7	43.4	43.4
15°	80.2	76.0	69.1	62.9	57.9	48.7	41.8	35.7	34.9	36.1	36.1
17.5°	86.7	82.1	74.0	65.6	56.8	48.0	39.9	33.8	31.1	30.3	30.3
20°	93.2	89.0	79.4	70.2	59.5	49.1	39.9	33.4	30.3	29.2	28.8
22.5°	101.7	96.3	85.6	75.6	62.5	49.9	39.5	33.8	30.3	28.4	28.0
25°	111.3	105.1	92.8	81.0	65.6	50.6	39.9	34.1	30.7	28.4	28.0
27.5°	118.9	112.4	100.5	87.1	69.4	52.6	41.4	34.9	31.1	28.8	28.4
30°	127.8	120.9	107.4	93.6	74.0	55.6	44.5	37.2	32.6	29.5	29.5
32.5°	141.2	132.0	117.0	99.8	78.7	59.1	48.0	39.9	34.1	31.8	31.8
35°	163.1	153.8	133.9	111.6	83.6	62.5	50.6	42.6	36.1	33.0	33.0
37.5°	198.0	184.2	161.9	131.2	91.7	65.2	53.7	44.5	37.2	33.0	32.2
40°	218.3	203.0	174.9	145.8	101.7	68.7	56.0	46.0	38.0	33.4	33.0
42.5°	240.9	223.3	187.2	149.6	108.2	76.7	59.5	47.6	38.7	34.5	33.8
45°	264.7	247.8	215.2	170.0	123.5	87.9	65.2	50.6	41.1	36.1	35.3
47.5°	308.1	287.4	245.2	198.7	146.2	105.5	77.9	55.6	43.7	37.6	36.8
50°	405.5	386.3	327.6	258.2	182.2	130.8	97.4	66.0	48.0	38.7	37.6
52.5°	537.5	503.4	437.0	349.9	254.4	183.4	130.1	89.0	54.5	39.9	38.0
55°	729.3	691.4	593.1	479.6	348.4	266.3	196.8	133.9	77.5	41.1	37.6
57.5°	920.0	874.0	791.5	636.1	468.1	339.5	263.2	196.0	112.8	46.0	38.7
60°	1056.6	1000.6	898.5	756.2	567.8	399.4	297.3	213.7	125.5	47.2	39.9
62.5°	1137.2	1067.0	938.8	768.9	591.6	424.3	311.1	201.8	107.8	46.0	41.4
65°	*1151.7*	*1071.9*	*938.8*	*747.0*	*567.0*	*402.5*	*300.8*	*186.5*	*85.2*	*44.1*	*42.6*
67.5°	1068.1	993.7	881.3	686.0	503.0	345.7	259.0	153.5	64.8	42.6	42.2
70°	876.7	820.6	729.0	560.5	408.2	281.2	206.0	118.2	52.6	40.7	39.9
72.5°	684.1	632.3	563.6	439.7	315.8	222.9	157.3	92.5	46.8	39.1	38.7
75°	538.3	499.5	442.7	347.2	237.5	168.8	119.3	69.8	42.2	38.4	37.6
77.5°	440.4	415.1	356.4	265.1	177.3	125.5	89.0	55.6	40.3	37.6	37.2
80°	342.6	321.5	284.7	198.4	127.0	94.4	70.2	49.1	39.1	37.2	36.8
82.5°	244.4	237.1	206.0	154.2	105.9	81.0	63.3	47.2	38.7	36.8	36.4
85°	204.1	193.7	170.7	133.9	97.4	77.1	60.6	46.4	38.7	36.8	36.4
87.5°	197.2	188.0	166.9	127.8	91.7	72.5	57.9	44.9	38.0	36.1	36.1
90°	174.2	165.0	148.9	115.1	84.4	67.5	54.1	42.6	36.4	34.5	34.5
92.5°	154.2	148.9	133.5	105.5	81.0	64.8	52.2	41.4	35.7	34.1	33.8
95°	130.4	125.8	113.9	95.1	76.0	61.8	50.6	40.3	34.9	33.4	33.4
97.5°	108.2	104.4	95.1	80.6	65.6	54.9	45.7	38.0	33.8	32.6	32.6
100°	95.5	92.5	84.4	72.5	60.6	51.4	44.1	37.6	33.4	31.8	31.8
102.5°	90.5	87.5	79.4	68.7	57.5	49.1	43.0	36.8	33.0	31.5	31.1
105°	86.7	83.6	76.3	65.2	54.5	46.8	40.7	36.1	32.2	31.1	30.7
107.5°	82.9	79.4	72.5	61.4	51.8	44.5	39.1	34.9	31.8	30.7	30.7
110°	78.7	75.6	69.1	58.3	49.9	43.0	38.4	34.5	31.8	30.7	30.7

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

Scaled Data Report

REPORT NUMBER: P1045766
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	74.0	71.0	64.8	55.2	48.0	41.8	37.6	34.1	31.8	30.7	30.7
115°	68.7	66.0	60.2	52.2	45.7	40.3	36.4	33.4	31.1	30.3	30.3
117.5°	67.1	64.1	58.3	51.0	44.9	39.1	35.7	32.6	30.7	29.9	29.9
120°	70.6	66.4	60.2	53.3	44.9	38.4	34.9	32.2	30.3	29.5	29.5
122.5°	75.2	71.7	64.8	52.2	43.4	37.6	34.1	31.8	29.9	29.5	29.5
125°	71.0	68.7	62.2	48.3	41.8	36.8	33.8	31.8	30.3	29.5	29.5
127.5°	62.2	59.9	54.9	46.0	40.3	36.1	33.4	31.8	30.7	29.5	29.5
130°	58.7	55.6	51.0	44.1	38.7	34.9	33.0	31.8	30.7	29.2	28.8
132.5°	60.2	57.5	50.3	41.4	36.4	33.4	31.8	31.1	28.8	27.2	26.9
135°	56.8	54.1	46.8	39.5	35.3	33.0	31.5	29.2	26.9	24.9	24.9
137.5°	50.6	47.6	43.4	38.0	34.9	33.8	31.8	28.8	25.7	24.2	24.2
140°	50.3	46.8	43.0	37.6	34.1	31.1	28.8	25.7	23.4	22.6	22.3
142.5°	51.0	48.7	43.4	37.2	32.6	28.8	26.1	23.8	22.3	21.1	21.1
145°	59.1	55.6	48.7	40.7	35.3	30.7	26.9	23.8	21.5	19.6	19.2
147.5°	61.0	57.5	51.4	44.5	37.6	31.8	26.5	22.6	19.6	18.0	17.6
150°	51.0	48.7	45.3	39.9	33.8	28.0	23.4	20.0	18.0	17.3	16.9
152.5°	38.7	38.0	35.7	31.8	27.6	23.8	20.7	18.8	17.6	17.3	16.9
155°	33.0	32.6	30.3	27.2	23.8	21.1	19.2	18.0	17.3	17.3	16.9
157.5°	30.7	29.9	28.0	24.9	21.9	20.3	18.4	17.6	17.3	17.3	17.3
160°	25.7	24.9	23.4	22.3	20.3	19.2	18.0	17.6	17.3	17.3	16.9
162.5°	23.0	22.3	21.5	20.3	20.0	19.6	19.2	18.4	18.0	17.6	17.6
165°	21.9	21.5	20.3	20.0	20.0	20.3	20.3	19.6	18.8	18.0	18.0
167.5°	21.5	21.1	20.3	20.0	20.7	21.1	21.5	20.7	20.0	18.8	18.4
170°	21.5	21.5	21.1	20.7	21.1	21.5	21.9	21.9	21.5	20.7	20.7
172.5°	21.5	21.9	21.5	21.5	21.5	21.5	21.5	22.3	22.3	21.9	21.9
175°	23.0	23.0	21.9	21.5	21.9	22.3	22.6	22.3	22.3	22.6	22.6
177.5°	21.1	21.9	23.4	23.8	24.6	24.6	23.8	23.4	22.3	21.9	21.9
180°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2

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

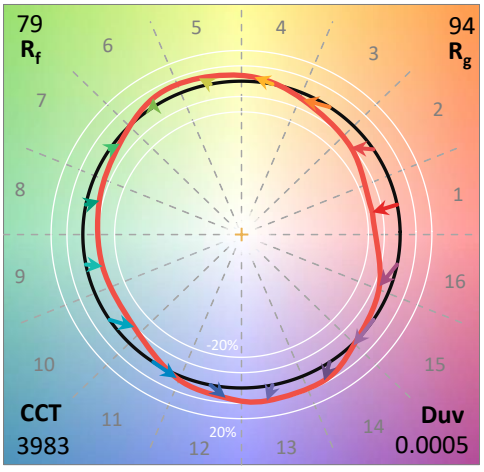
Test Information

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

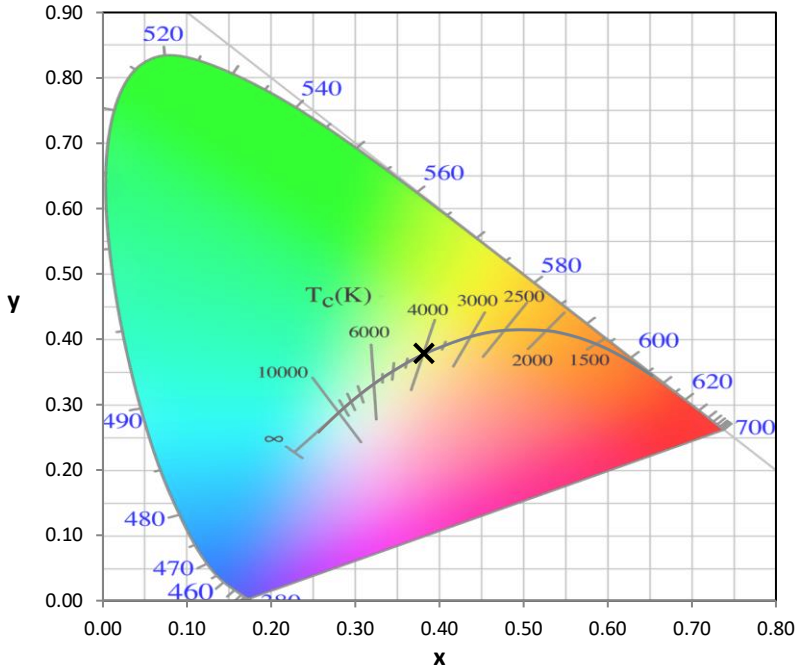
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

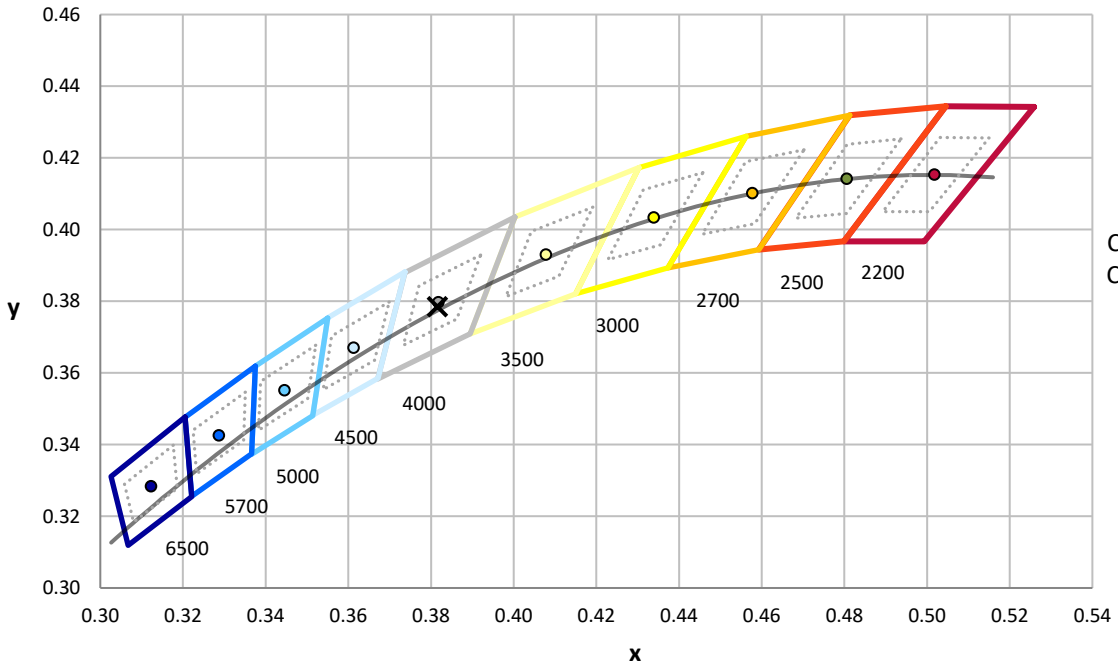
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

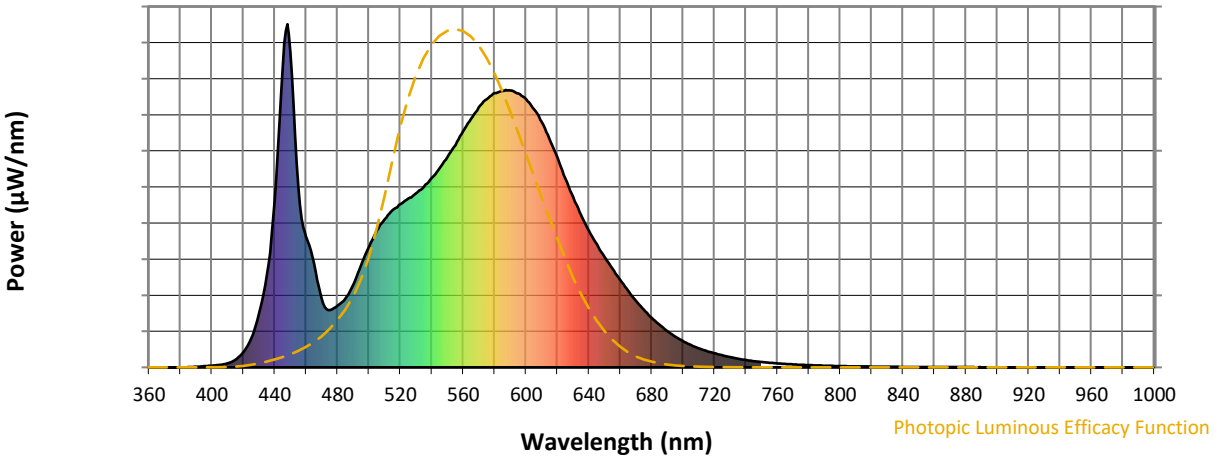


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

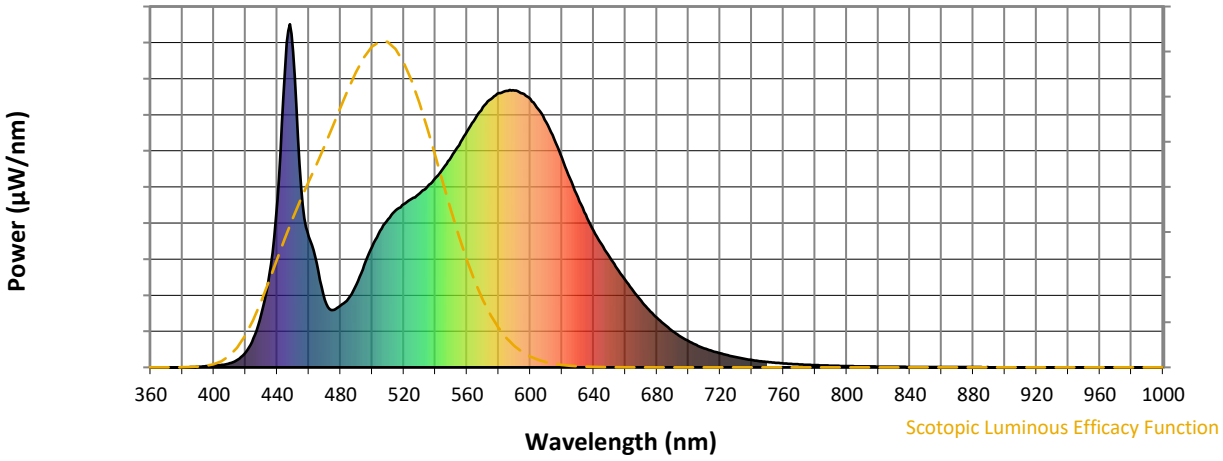


Photopic Lumens: NR

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

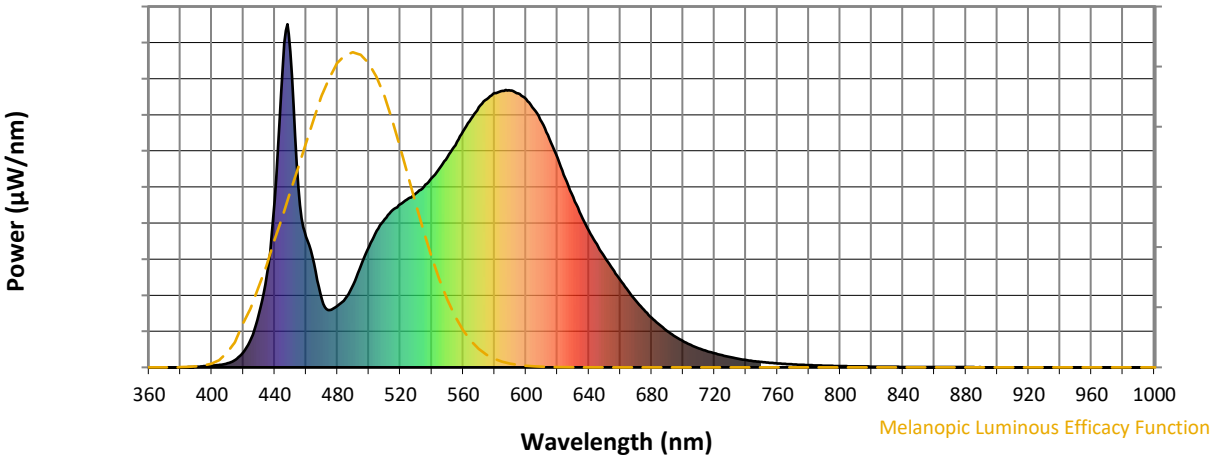


Scotopic Lumens: NR **S/P: 1.61**

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			

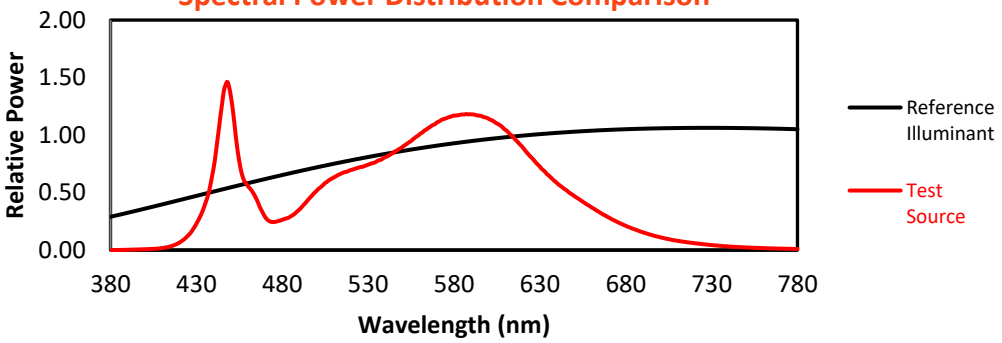
REPORT NUMBER: SP1-2501-332-11

TM-30-18

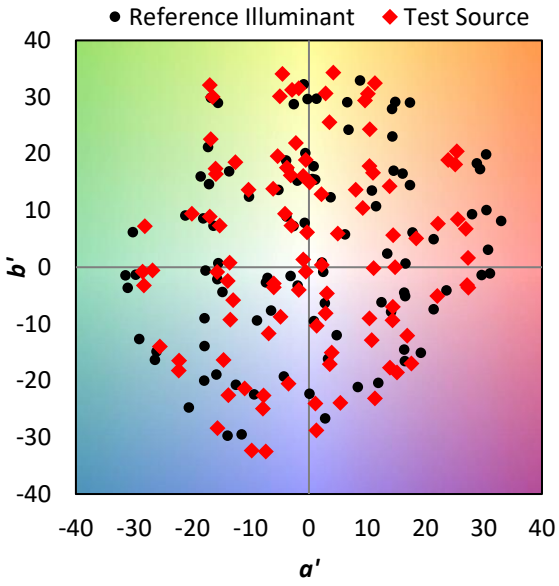
Summary

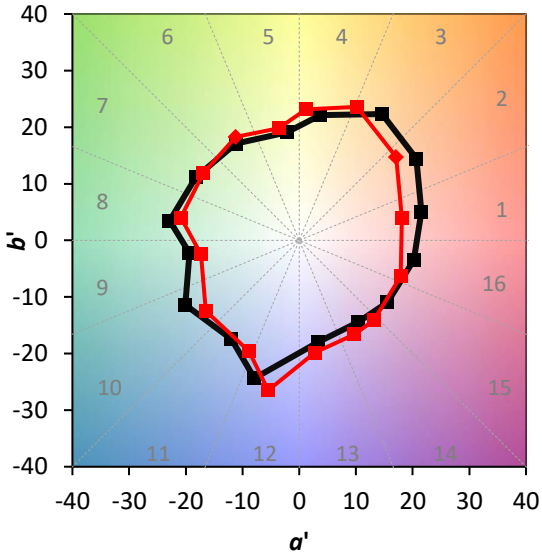
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

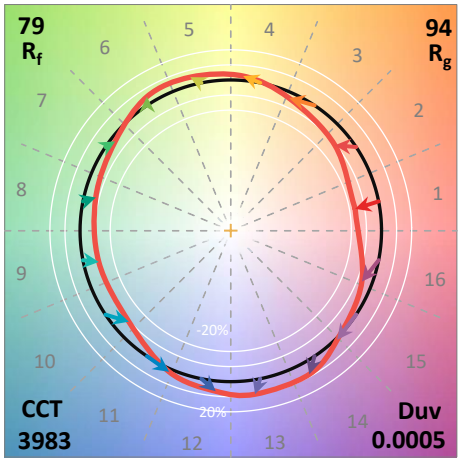
Spectral Power Distribution Comparison

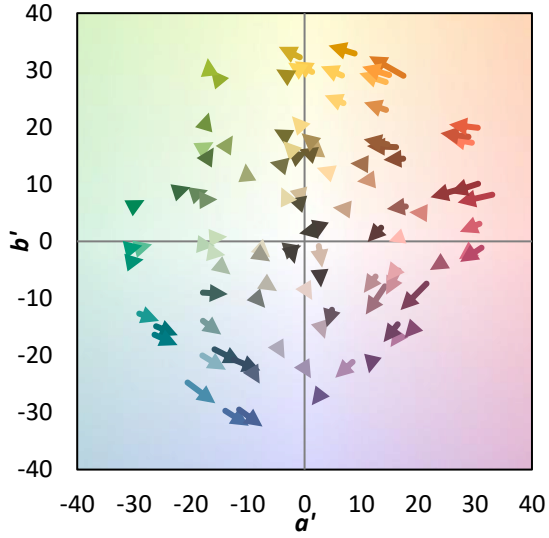


Color Vector Graphics







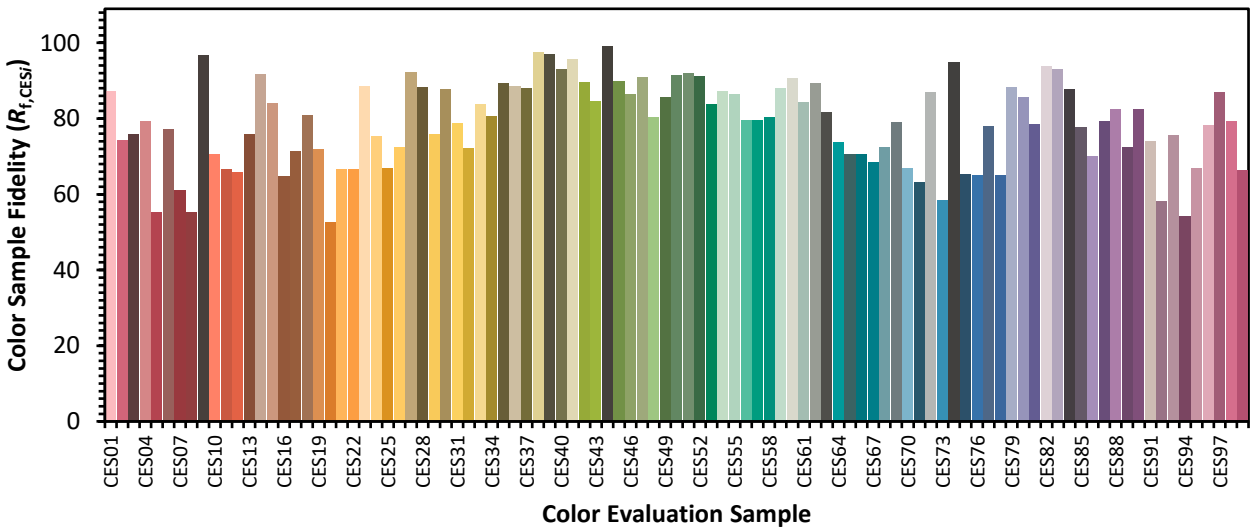


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

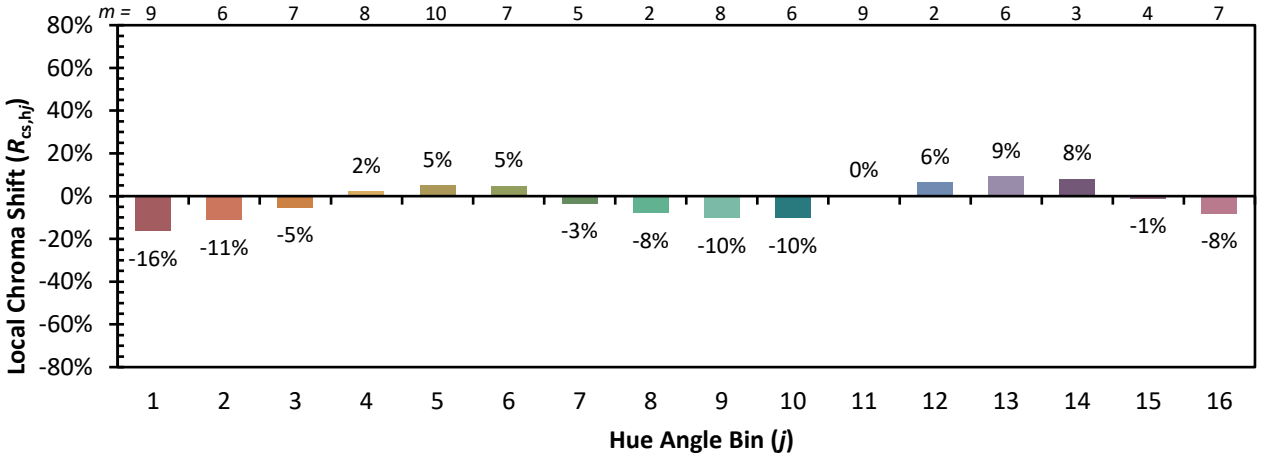
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57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

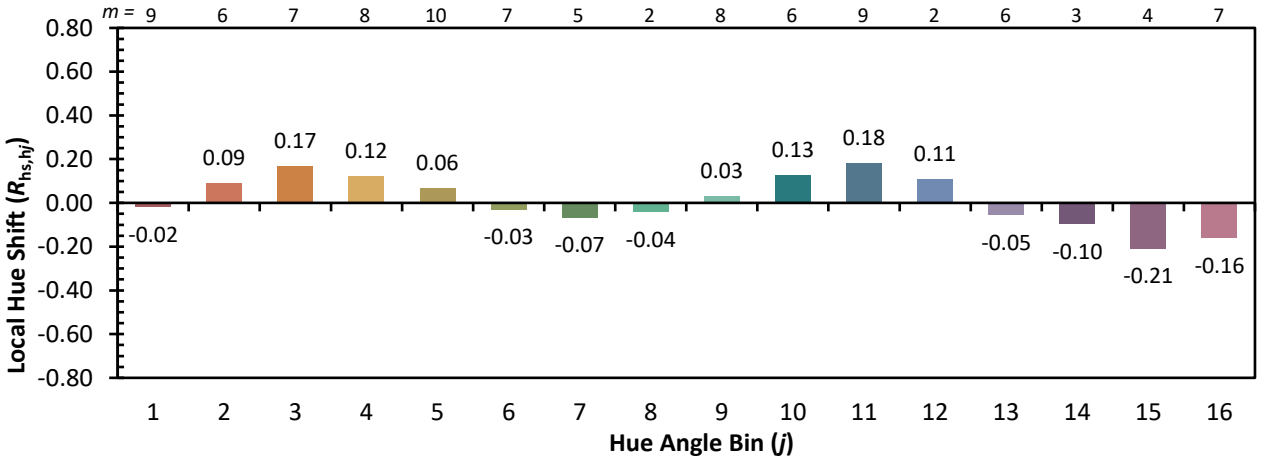


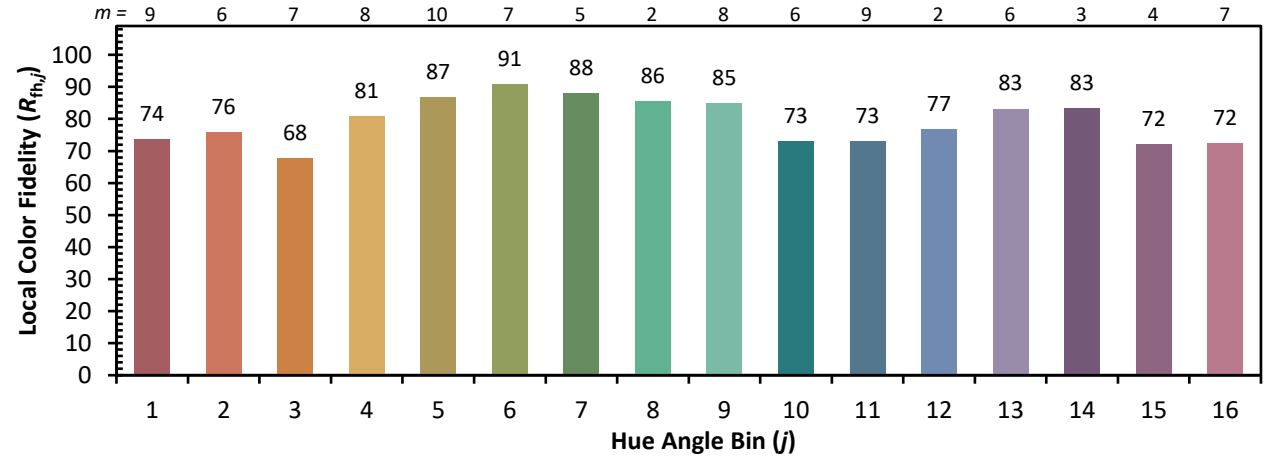
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Color Rendition by Hue-Angle Bin



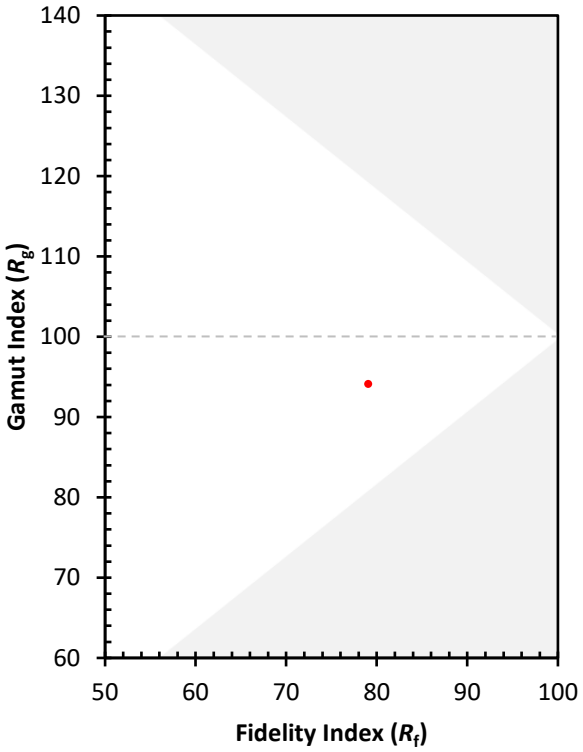


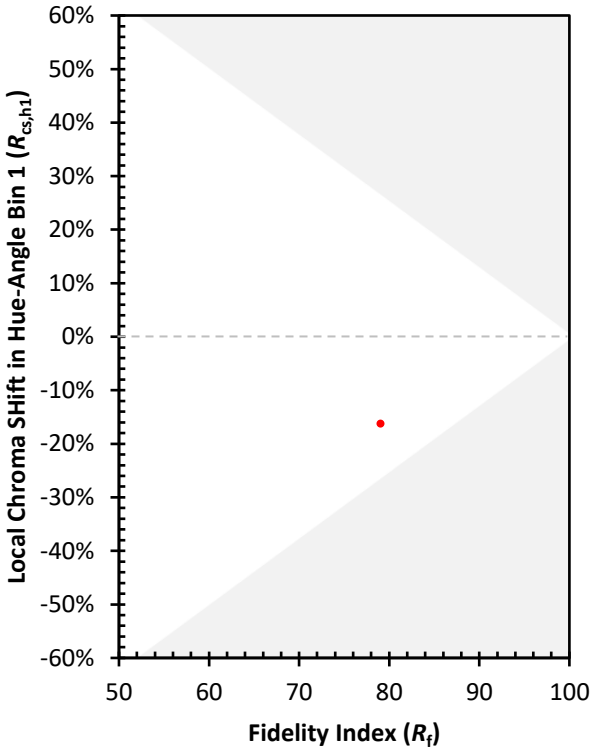


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Measure Comparisons





(END OF REPORT)