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: P981458

Luminaire Tested: **FFX-CLB-30-722-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:	P981458
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-722-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3928.5 lumens
Efficiency:	N/A
Efficacy:	128.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U3 - G2

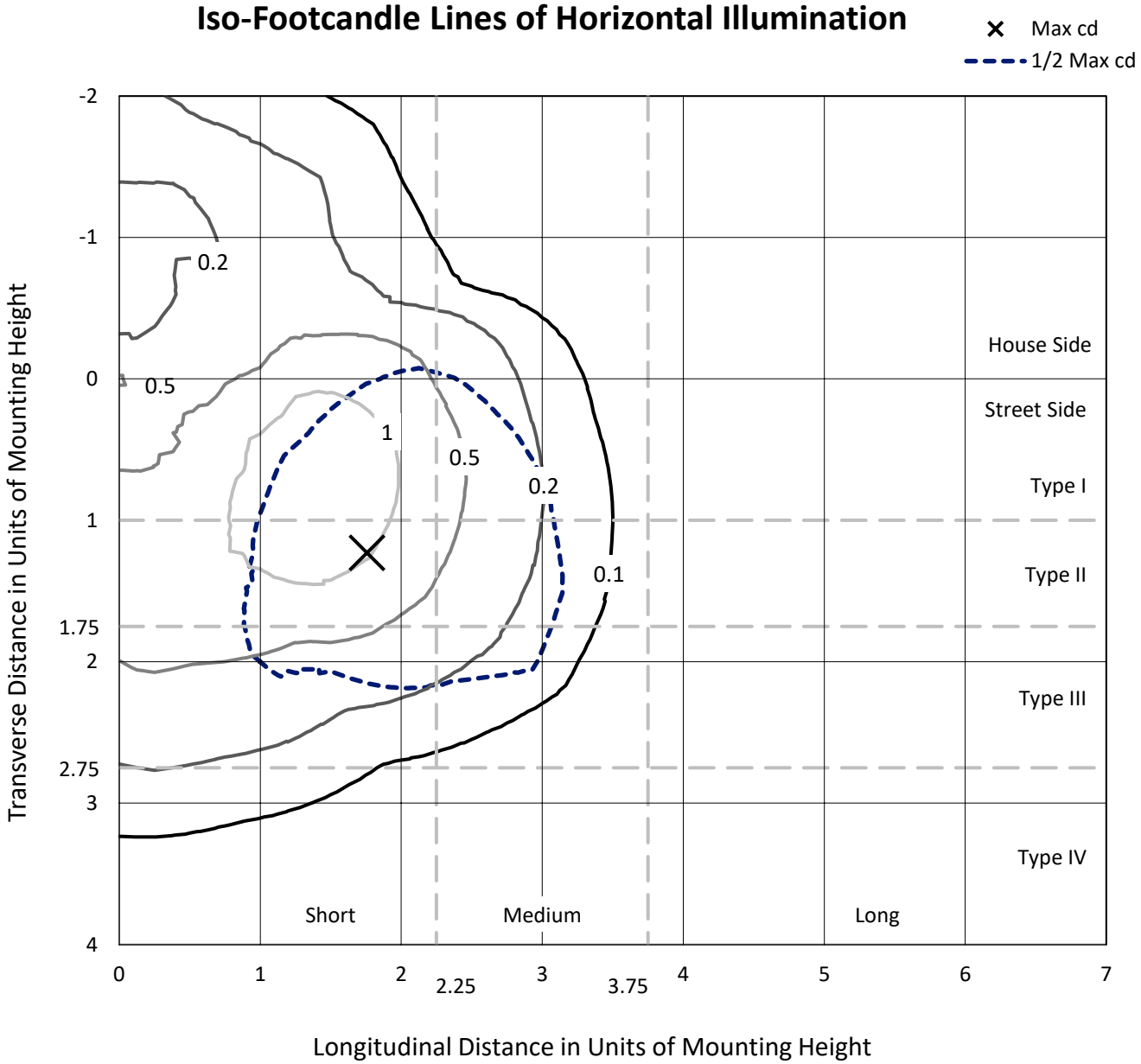
Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



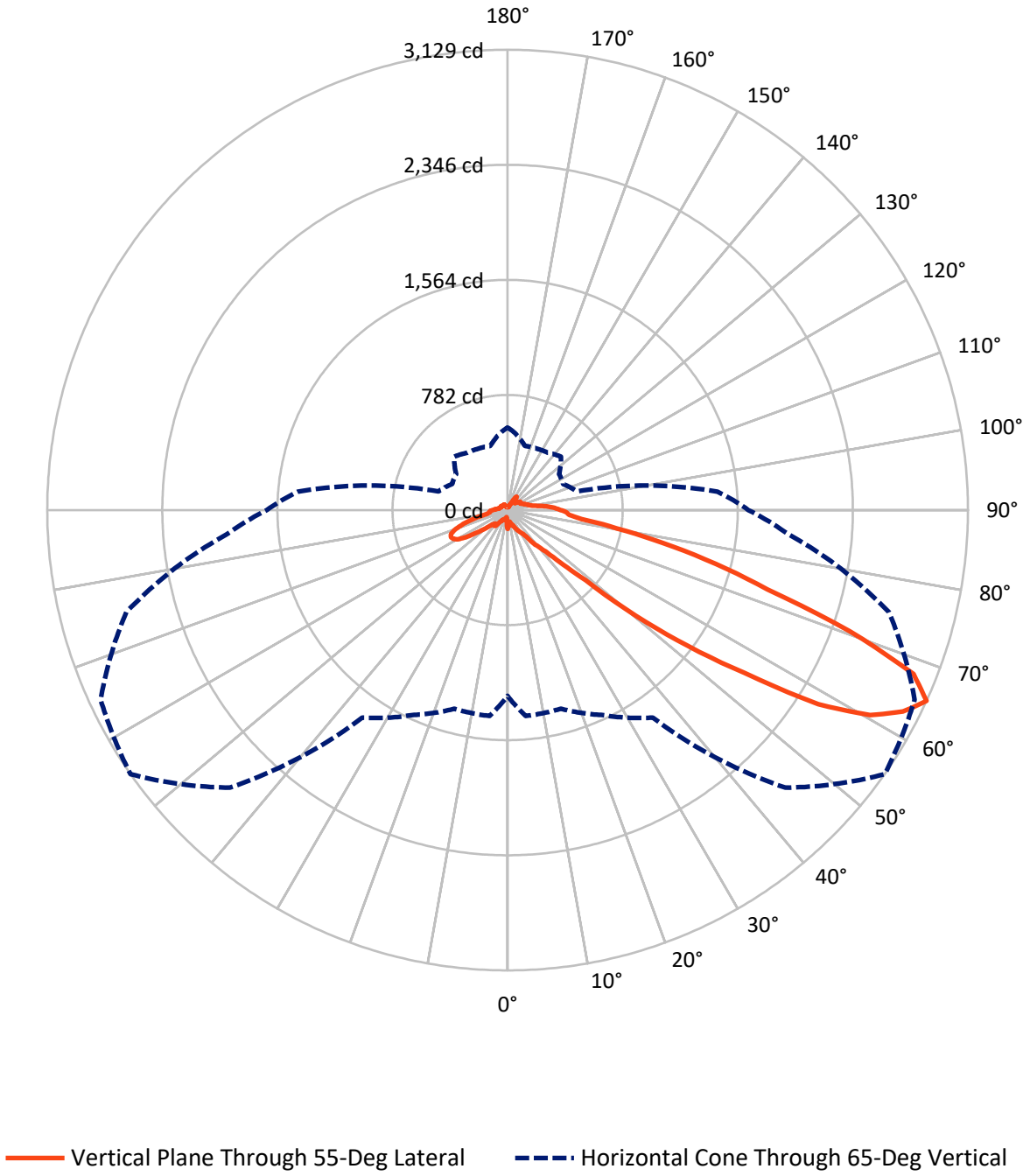
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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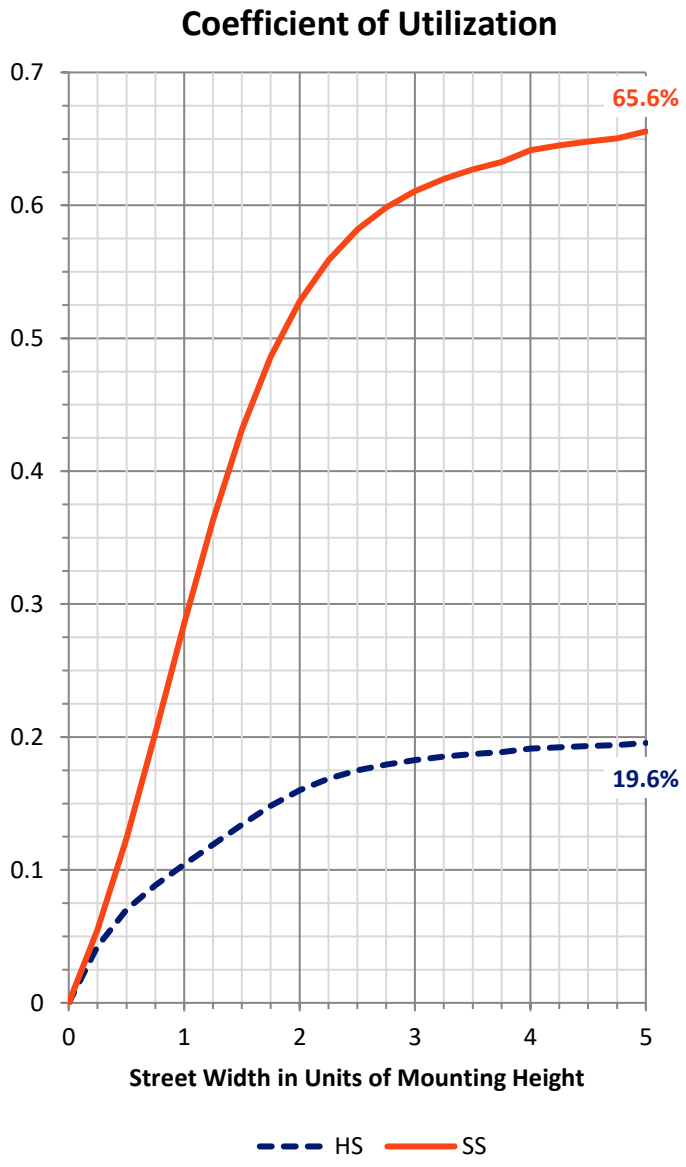
REPORT NUMBER: P981458
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.1	155.7	953.8
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	2663.1	311.6	2974.7
	% Fixture	67.8	7.9	75.7
Total	Lumens	3461.1	467.4	3928.5
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.2
10°-20°	24.0	0.6
20°-30°	49.1	1.3
30°-40°	106.5	2.7
40°-50°	258.5	6.6
50°-60°	806.9	20.5
60°-70°	1282.1	32.6
70°-80°	683.3	17.4
80°-90°	243.5	6.2
90°-100°	148.1	3.8
100°-110°	87.7	2.2
110°-120°	68.5	1.7
120°-130°	57.1	1.5
130°-140°	41.7	1.1
140°-150°	38.4	1.0
150°-160°	17.3	0.4
160°-170°	6.6	0.2
170°-180°	2.0	0.0
0°-90°	3461.1	88.1
0°-180°	3928.5	100.0



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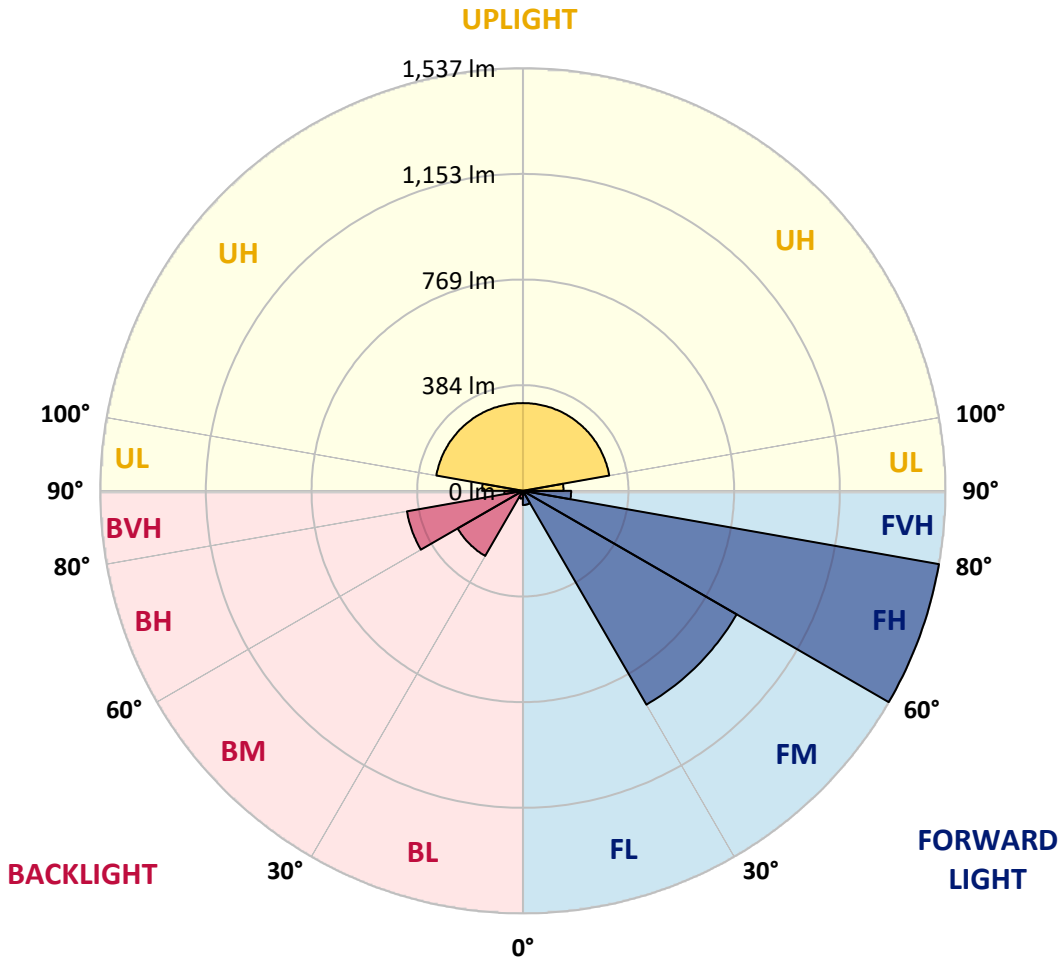
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	51.9	1.3			
FM	(30°-60°)	898.3	22.9			
FH	(60°-80°)	1537.2	39.1			G1/1800
FVH	(80°-90°)	175.7	4.5			G2/225
BL	(0°-30°)	28.6	0.7	B0/110		
BM	(30°-60°)	273.5	7.0	B1/1000		
BH	(60°-80°)	428.2	10.9	B1/500		G1/500
BVH	(80°-90°)	67.8	1.7			G1/100
UL	(90°-100°)	148.1	3.8		U3/500	
UH	(100°-180°)	319.3	8.1		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5
2.5°	76.1	76.6	85.2	91.8	100.1	97.7	97.7	115.8	127.7	145.3	143.7
5°	81.4	78.0	79.6	85.4	96.6	101.9	96.1	76.1	63.1	68.4	74.8
7.5°	89.1	88.3	86.5	80.9	76.6	88.1	104.0	92.6	70.0	58.8	56.4
10°	91.3	91.5	91.0	91.5	93.7	88.6	79.6	72.4	70.3	69.2	68.4
12.5°	110.4	110.2	111.2	109.9	104.8	98.7	100.6	95.3	84.9	77.7	75.8
15°	128.8	128.3	128.0	122.9	114.7	104.8	100.1	102.4	95.8	87.5	83.8
17.5°	136.2	136.2	130.9	123.7	118.7	111.8	108.0	105.4	100.3	95.0	90.5
20°	133.3	133.1	127.7	124.8	125.3	122.1	118.9	115.0	109.9	101.4	95.8
22.5°	131.7	131.7	129.9	129.1	133.6	132.5	131.7	126.7	120.0	107.5	100.3
25°	142.1	141.3	138.9	138.9	143.2	146.6	148.0	144.0	133.1	114.2	107.5
27.5°	152.2	151.9	148.7	149.5	152.2	159.1	161.3	159.4	144.5	119.7	113.9
30°	164.4	162.6	159.9	164.7	164.2	173.8	176.7	178.8	159.9	131.2	124.3
32.5°	177.5	176.4	174.3	180.4	182.5	191.3	193.7	204.4	180.9	151.7	144.5
35°	199.6	198.8	204.4	216.3	216.1	232.6	226.2	242.2	220.1	188.7	181.5
37.5°	299.1	294.6	288.2	276.7	275.9	298.8	291.6	304.2	273.0	228.8	220.9
40°	311.3	310.5	307.6	294.6	287.1	326.2	331.0	368.0	316.7	266.1	250.7
42.5°	304.2	305.2	344.3	352.6	337.4	385.6	393.6	458.5	365.9	322.8	294.6
45°	366.7	368.3	381.1	386.9	385.8	506.9	526.6	606.2	452.1	402.3	350.2
47.5°	419.9	414.3	437.5	482.2	512.8	649.6	712.9	835.0	607.5	534.1	437.5
50°	576.9	575.6	631.5	680.4	710.8	934.5	1129.6	1263.7	890.4	774.4	610.4
52.5°	683.3	728.6	782.1	895.4	922.8	1271.7	1535.7	1643.2	1230.4	1017.0	833.4
55°	791.4	856.6	916.4	1092.9	1183.9	1652.2	1952.6	1982.2	1616.0	1236.6	1051.6
57.5°	992.3	1102.2	1140.8	1281.5	1414.6	2090.7	2489.1	2457.7	2013.6	1491.2	1295.4
60°	1174.0	1306.3	1295.1	1432.9	1604.1	2448.1	2829.7	2796.7	2377.3	1717.4	1482.7
62.5°	1235.0	1368.3	1353.1	1503.2	1721.9	2639.7	3015.4	2959.0	2615.5	1862.4	1586.5
65°	1263.4	1405.0	1397.6	1537.5	1721.9	2667.4	3128.5	3051.4	2682.0	1918.3	1636.5
67.5°	1238.4	1374.9	1379.7	1504.0	1620.5	2467.5	2974.2	2869.4	2515.4	1784.2	1547.1
70°	1082.5	1178.0	1166.1	1278.6	1290.1	1975.3	2468.3	2354.2	2043.6	1487.8	1280.2
72.5°	894.4	917.5	907.7	978.7	992.0	1446.8	1844.9	1780.2	1526.1	1107.0	978.2
75°	713.1	709.4	729.6	746.1	732.3	1062.0	1460.9	1387.4	1129.1	833.7	752.8
77.5°	493.3	464.9	518.1	523.2	501.3	706.2	1077.7	1049.8	809.2	614.4	554.8
80°	277.3	280.5	318.5	341.1	333.2	449.4	749.9	731.5	552.7	429.5	381.6
82.5°	213.9	223.5	241.4	258.4	247.2	343.8	507.2	508.5	404.2	313.7	286.6
85°	235.2	240.3	242.7	243.2	234.4	319.6	420.4	414.8	343.3	262.6	254.1
87.5°	229.4	234.7	235.5	235.8	228.0	304.4	398.1	389.3	327.3	252.3	239.2
90°	196.6	205.7	206.8	213.7	204.6	272.0	350.5	341.7	295.1	227.5	215.3
92.5°	169.0	173.8	178.8	187.1	177.5	236.8	313.7	302.8	264.2	205.7	188.9
95°	154.6	157.3	161.5	164.7	153.5	201.2	262.4	250.9	214.5	165.5	150.6
97.5°	124.3	126.7	128.5	132.5	124.8	159.4	203.6	192.9	168.2	131.7	120.5
100°	106.2	107.8	109.9	112.6	106.2	133.6	167.1	162.3	140.0	111.2	104.0
102.5°	97.1	98.5	102.2	102.2	98.2	122.1	149.3	145.6	125.9	100.9	96.1
105°	93.7	93.9	97.1	95.8	93.1	113.9	139.2	134.4	117.9	95.8	90.2
107.5°	89.1	89.4	93.4	91.3	89.1	105.6	126.1	124.0	109.1	89.4	84.6
110°	84.6	85.4	90.5	88.6	87.3	99.3	118.1	114.2	104.3	86.5	82.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	81.2	81.7	86.5	85.2	84.1	95.0	*109.6*	109.6	101.9	86.5	81.2
115°	78.2	79.3	83.3	80.6	78.8	89.4	*101.1*	101.7	95.3	82.5	77.2
117.5°	73.2	75.6	77.7	78.8	76.6	85.7	*96.1*	95.5	92.1	79.6	75.8
120°	83.3	81.4	83.0	84.9	81.4	88.6	*97.4*	97.4	93.9	78.2	75.0
122.5°	87.0	84.4	86.0	84.1	83.8	93.1	*104.0*	104.8	97.7	80.6	72.6
125°	77.2	76.1	74.2	73.7	75.8	84.6	*94.5*	97.9	90.2	77.2	67.9
127.5°	66.0	64.7	62.3	63.6	67.6	76.4	*81.4*	83.3	80.1	71.6	64.7
130°	60.9	60.7	62.5	64.9	68.1	75.6	*77.2*	79.8	79.8	69.7	65.7
132.5°	55.6	55.9	61.7	70.0	72.4	74.0	*70.5*	75.6	78.0	71.0	66.5
135°	54.8	55.1	58.3	64.9	65.2	66.3	*66.5*	72.9	74.5	67.9	62.8
137.5°	59.9	59.9	57.5	58.8	61.7	69.7	*72.4*	77.4	76.1	64.1	56.7
140°	66.0	64.7	57.2	57.5	62.5	72.4	*75.8*	79.0	77.4	62.8	54.0
142.5°	54.6	55.1	56.4	61.5	67.3	89.7	*86.7*	94.7	91.5	66.5	52.7
145°	85.2	85.4	83.8	86.0	89.7	119.2	*110.2*	122.9	126.7	87.0	62.5
147.5°	93.1	94.2	91.3	89.4	100.1	109.1	*99.0*	109.6	116.8	91.3	67.1
150°	72.6	72.4	70.5	73.2	80.4	79.8	*74.5*	78.2	81.2	69.7	57.5
152.5°	51.6	50.8	49.8	50.0	58.5	56.4	*54.8*	58.0	58.0	53.5	46.0
155°	42.8	42.8	42.3	43.6	48.4	44.7	*43.4*	42.8	42.3	41.0	38.1
157.5°	36.2	37.0	36.2	37.8	41.0	37.5	*36.7*	35.9	36.2	36.2	35.4
160°	30.1	30.1	29.5	32.2	33.3	30.6	*29.3*	28.7	28.7	30.3	30.3
162.5°	25.3	25.3	25.5	26.6	27.4	25.5	*24.7*	24.7	25.5	27.9	27.9
165°	21.8	21.8	22.1	22.9	23.4	22.4	*21.8*	22.1	24.2	26.3	26.3
167.5°	20.0	20.0	20.0	20.2	20.5	20.0	*20.0*	21.0	22.9	24.2	24.2
170°	18.9	18.9	18.6	18.9	18.9	18.9	*20.0*	21.0	21.8	21.8	21.8
172.5°	19.2	19.2	18.9	19.2	19.2	18.9	*20.2*	21.6	21.0	20.8	20.8
175°	19.7	19.7	19.7	20.0	20.0	19.4	*19.2*	19.7	20.2	20.2	20.0
177.5°	19.7	19.7	19.4	19.7	19.4	18.9	*18.6*	18.4	18.4	18.1	18.1
180°	18.4	18.4	18.4	18.4	18.4	18.4	*18.4*	18.4	18.4	18.4	18.4

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5
2.5°	130.1	112.3	99.0	109.4	132.3	143.7	132.3	100.6	70.8	62.0
5°	78.0	75.8	68.4	66.8	69.7	67.1	74.5	70.5	55.9	56.4
7.5°	58.3	70.5	68.1	48.7	45.5	42.6	45.0	51.4	53.0	49.5
10°	67.6	60.9	53.2	49.5	54.0	58.3	55.3	48.2	41.5	39.6
12.5°	74.5	74.0	74.8	67.1	55.1	50.8	49.2	53.0	64.4	67.1
15°	80.1	74.0	68.4	66.8	58.8	54.6	52.4	51.4	49.2	47.6
17.5°	85.7	75.6	69.5	63.3	59.3	55.3	50.8	48.4	48.2	48.4
20°	89.4	80.1	72.9	66.0	60.9	55.6	51.1	49.0	49.0	49.0
22.5°	93.9	84.9	77.2	68.4	62.5	56.7	53.0	50.8	50.6	50.6
25°	101.4	91.3	82.2	72.6	66.3	60.9	55.9	53.2	52.4	52.2
27.5°	109.9	98.7	87.8	78.0	71.3	65.5	58.8	54.8	53.8	53.5
30°	120.8	108.0	94.2	83.8	75.6	70.0	62.0	57.2	55.1	54.8
32.5°	138.6	121.9	103.8	92.3	82.5	75.0	66.3	60.4	56.9	56.1
35°	173.0	152.5	125.3	108.8	93.1	81.4	70.0	62.3	58.8	58.3
37.5°	211.3	180.1	153.8	134.6	115.5	95.8	75.8	65.2	60.9	60.1
40°	227.8	198.2	170.3	140.2	136.0	120.5	93.1	72.4	63.9	62.5
42.5°	264.0	221.9	184.1	124.0	133.8	133.1	115.0	88.6	71.8	68.7
45°	310.8	252.5	204.9	132.5	134.9	130.1	117.9	102.4	87.3	83.8
47.5°	387.2	282.3	211.5	149.0	151.7	140.2	123.5	108.0	97.1	95.8
50°	553.0	369.9	236.0	180.4	188.9	162.6	141.8	128.5	115.5	113.1
52.5°	751.7	438.3	261.3	225.1	255.7	217.9	186.5	162.1	161.3	158.1
55°	961.2	464.6	294.8	274.3	322.0	289.3	258.6	236.3	247.7	248.8
57.5°	1196.4	492.8	343.3	338.7	402.3	350.2	324.4	330.5	411.7	443.3
60°	1353.1	516.0	385.0	392.0	475.8	425.0	405.5	419.1	556.9	614.7
62.5°	1422.8	504.3	405.5	417.5	507.5	470.5	467.3	474.5	591.3	645.3
65°	*1432.4*	*487.0*	*416.7*	*427.1*	*513.0*	*475.3*	*461.7*	*451.6*	*529.3*	*560.9*
67.5°	1314.8	450.2	407.9	418.8	487.8	442.5	408.7	385.8	430.8	434.0
70°	1070.0	402.1	378.1	382.1	416.7	370.4	338.5	318.8	329.2	324.9
72.5°	829.7	354.4	336.9	327.6	337.9	298.3	260.5	250.4	260.2	255.7
75°	630.4	316.7	297.2	265.8	282.9	229.6	187.6	178.6	182.8	176.7
77.5°	463.5	255.2	232.6	196.6	220.1	166.6	126.7	117.4	118.9	113.1
80°	338.2	188.7	170.0	141.0	158.6	118.4	91.5	89.9	89.7	86.0
82.5°	261.3	149.8	136.0	121.3	124.3	104.6	86.7	84.1	84.1	78.5
85°	242.4	145.0	130.9	120.5	121.3	101.4	82.5	80.9	81.7	75.8
87.5°	226.5	141.8	130.4	117.9	111.8	91.8	74.2	76.1	76.6	71.6
90°	194.3	126.1	115.8	103.8	96.6	78.0	66.5	70.0	70.5	66.0
92.5°	170.3	108.3	99.5	90.2	87.0	73.2	63.9	66.5	66.5	62.5
95°	135.7	88.6	84.6	80.1	79.3	68.4	59.6	60.9	60.4	56.9
97.5°	110.4	76.9	73.4	69.2	66.5	58.5	52.4	53.8	54.0	51.6
100°	97.1	71.0	66.3	61.5	58.8	52.7	47.9	50.3	51.9	49.8
102.5°	90.7	67.9	62.5	57.5	55.3	49.8	45.2	47.4	49.5	47.6
105°	86.2	65.5	59.9	55.3	52.7	47.1	42.6	43.1	45.8	44.7
107.5°	80.4	65.5	58.3	53.8	50.6	45.5	40.2	39.6	41.2	41.0
110°	78.2	65.5	57.2	52.7	49.2	44.7	39.9	37.8	38.6	38.6

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

Scaled Data Report

REPORT NUMBER: P981458
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	76.4	64.9	56.1	50.8	47.9	44.2	39.4	36.2	37.0	37.5
115°	72.1	59.9	53.0	47.4	44.4	40.4	37.3	34.9	35.1	35.7
117.5°	69.7	55.3	51.4	46.3	44.2	41.8	38.9	34.3	34.3	34.9
120°	69.7	54.6	52.7	50.8	49.8	45.8	41.0	34.3	33.5	33.5
122.5°	68.7	60.7	57.5	53.2	50.3	45.0	39.1	33.5	33.0	33.0
125°	63.1	58.0	53.0	47.9	44.4	40.2	36.7	33.8	32.7	32.7
127.5°	60.1	52.2	47.4	43.4	41.0	38.9	36.7	33.8	32.5	32.2
130°	60.9	52.7	46.6	43.4	41.5	39.4	37.0	33.3	31.1	30.9
132.5°	61.5	50.8	45.0	42.3	41.0	39.4	36.2	31.4	29.0	29.0
135°	55.6	45.8	43.1	41.2	40.4	39.1	34.3	29.8	27.9	27.7
137.5°	50.6	44.4	42.6	40.7	39.4	37.5	33.8	29.3	26.9	26.6
140°	48.4	43.4	40.7	37.3	35.7	31.9	29.3	26.6	25.8	25.5
142.5°	46.0	40.7	37.5	34.6	33.8	32.5	30.9	26.6	23.9	23.9
145°	55.1	49.0	45.2	42.3	38.6	35.9	30.9	25.5	22.1	21.6
147.5°	57.7	52.2	48.4	44.4	37.5	31.7	26.1	22.4	21.0	20.5
150°	50.6	45.8	41.8	37.5	31.4	27.4	23.7	21.3	20.8	20.8
152.5°	40.2	37.5	33.3	30.3	26.3	23.9	21.8	20.5	20.0	20.0
155°	33.3	31.1	28.7	26.3	24.2	22.6	21.3	20.2	19.7	19.7
157.5°	32.2	29.0	26.9	24.7	23.4	21.8	20.8	19.7	19.4	19.2
160°	29.3	25.5	23.7	22.4	22.1	21.6	20.8	20.0	19.7	19.4
162.5°	27.1	23.4	22.1	21.3	22.1	22.6	22.1	21.0	20.2	20.0
165°	25.5	22.1	21.0	21.0	22.6	23.4	22.1	21.0	21.0	20.8
167.5°	23.7	22.6	21.3	21.0	22.4	23.9	24.2	22.4	21.6	21.3
170°	22.1	22.4	22.4	21.6	21.8	23.2	23.7	23.2	22.1	21.8
172.5°	21.0	21.6	22.6	22.1	22.1	22.6	23.2	22.6	21.8	21.6
175°	20.0	20.2	19.7	20.0	20.8	21.6	21.3	21.0	20.8	20.8
177.5°	18.1	18.1	18.4	18.4	18.6	19.4	19.7	19.7	20.2	20.2
180°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

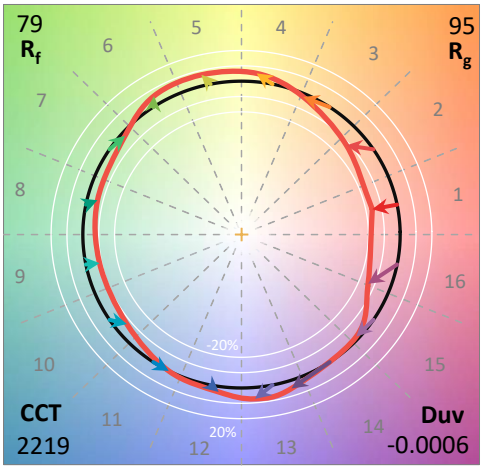
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

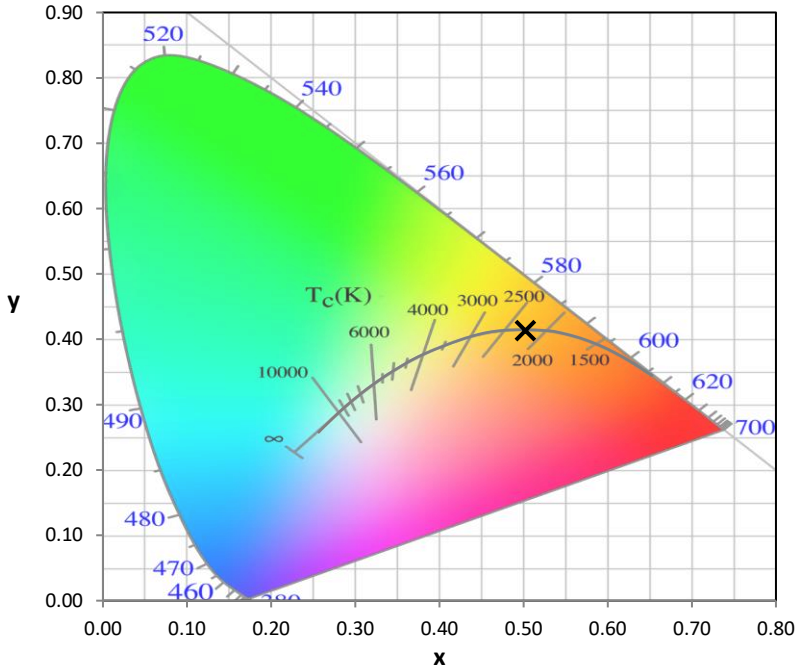
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

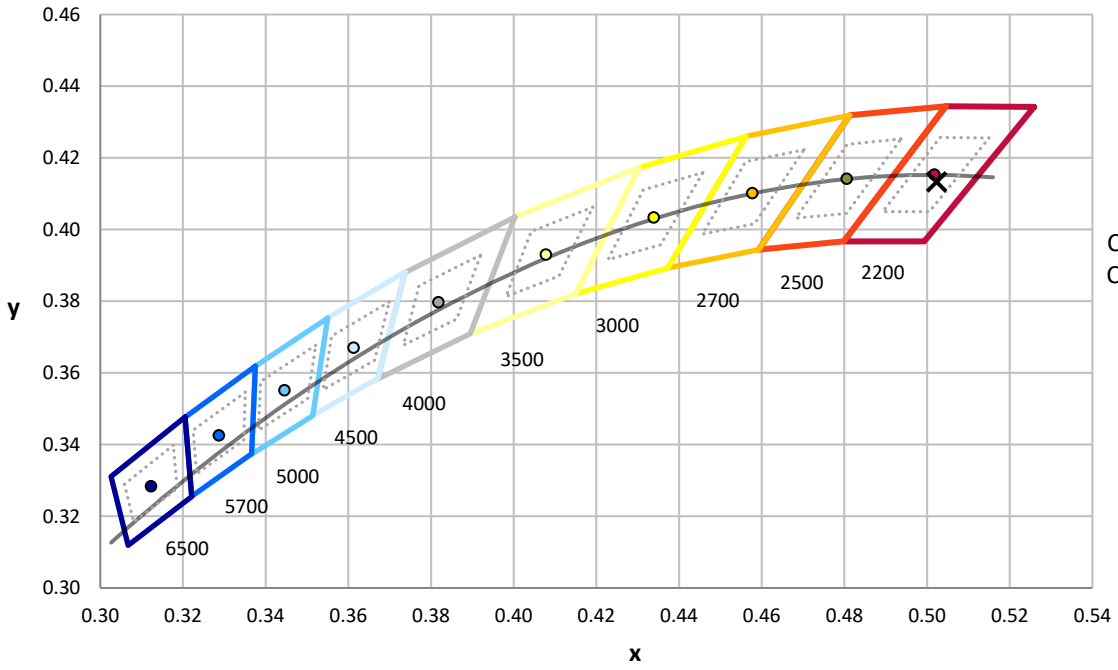
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

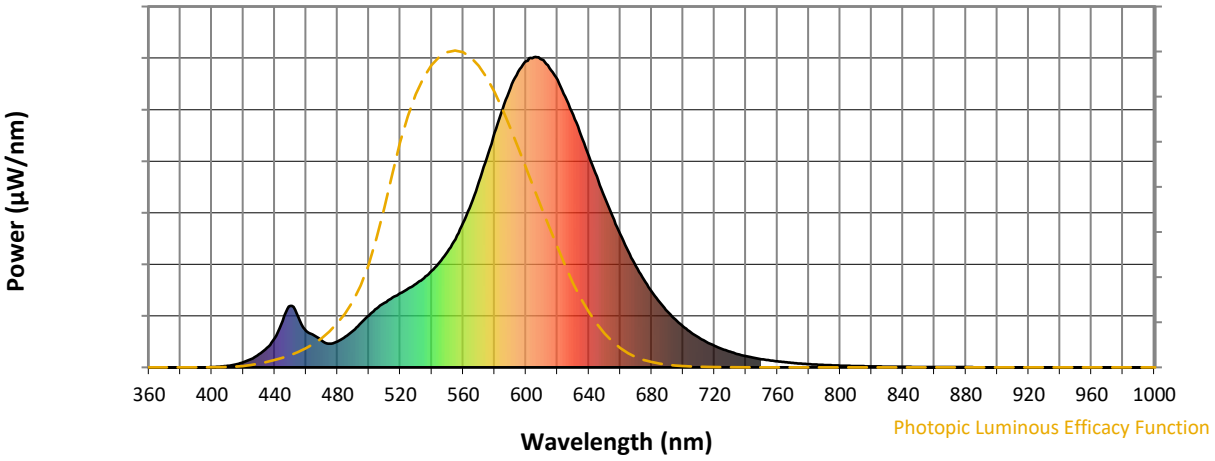


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

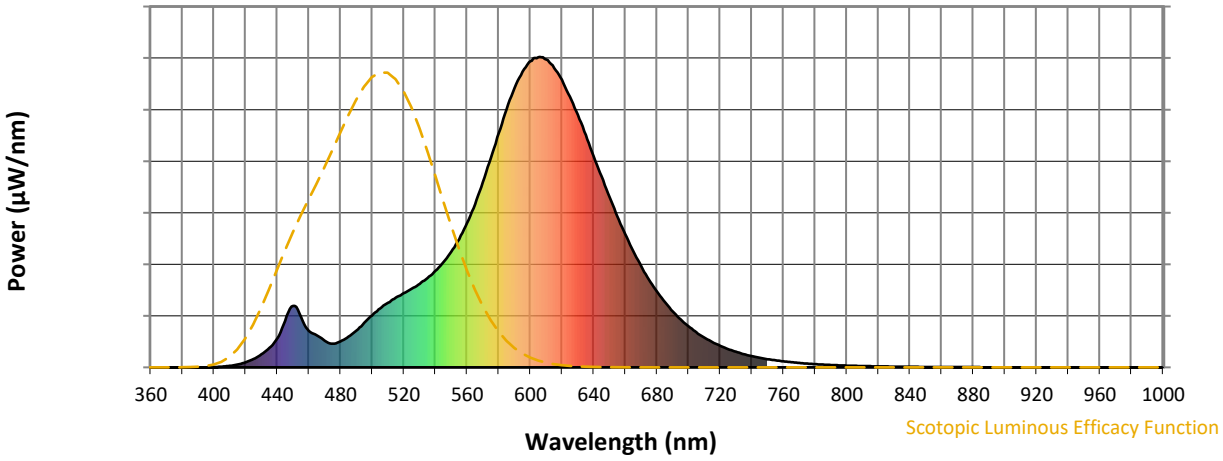


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

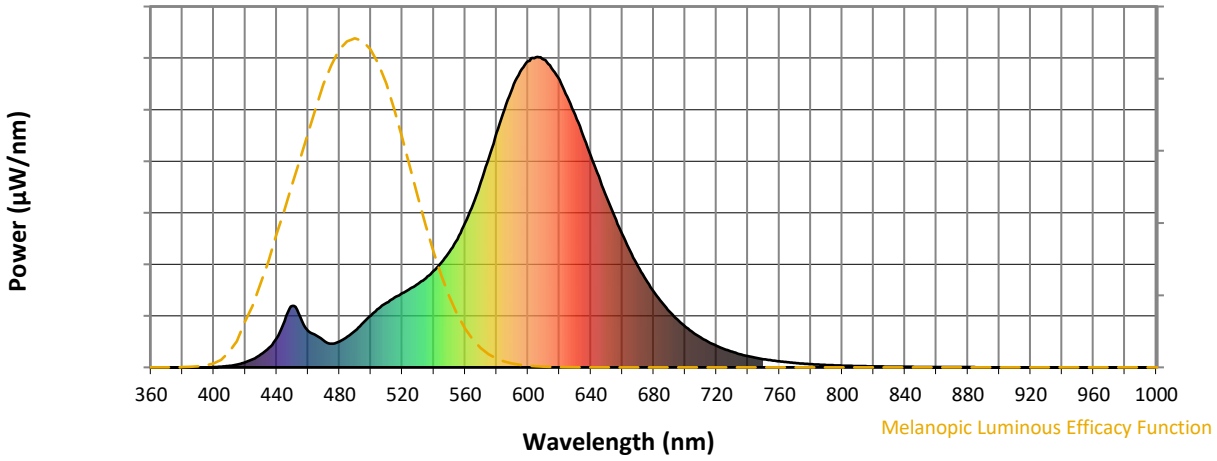


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

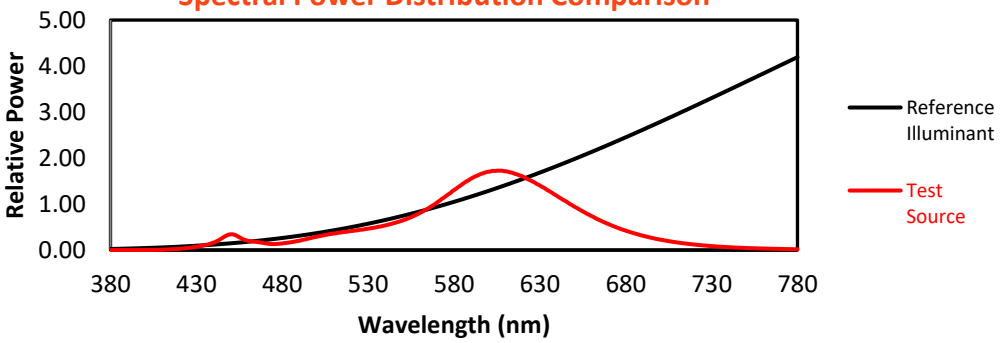
REPORT NUMBER: SP1-2501-332-2

TM-30-18

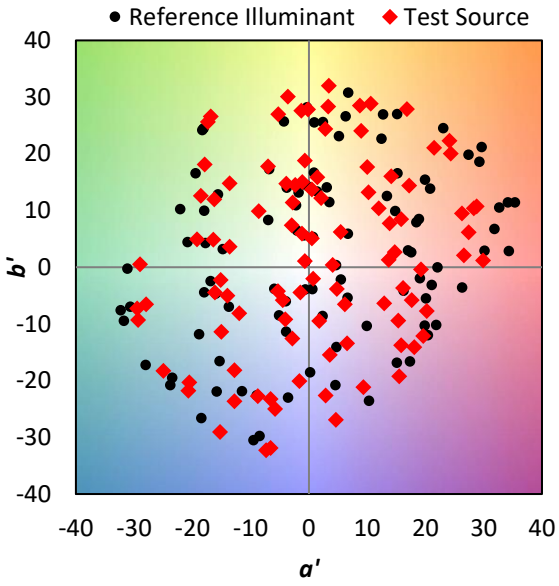
Summary

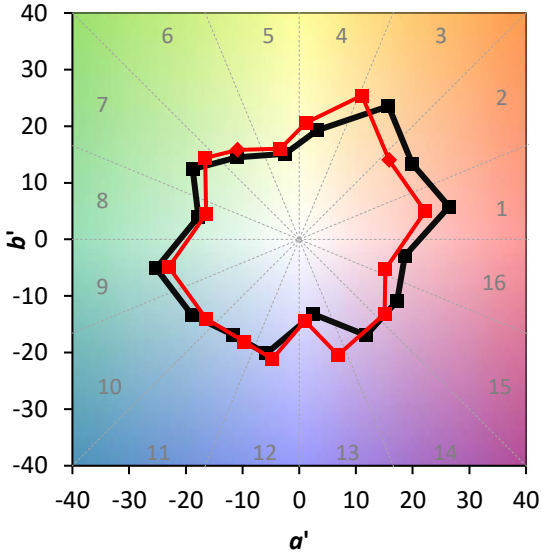
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

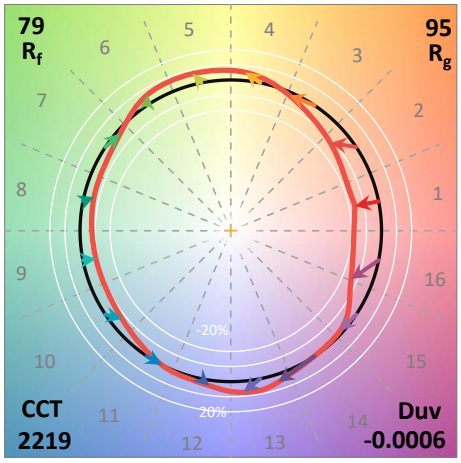
Spectral Power Distribution Comparison

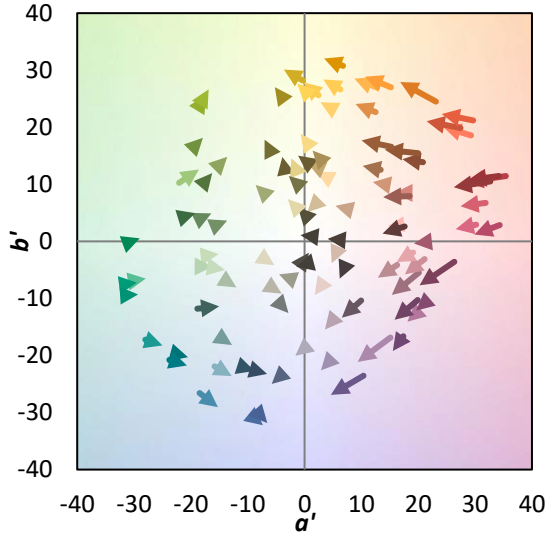


Color Vector Graphics







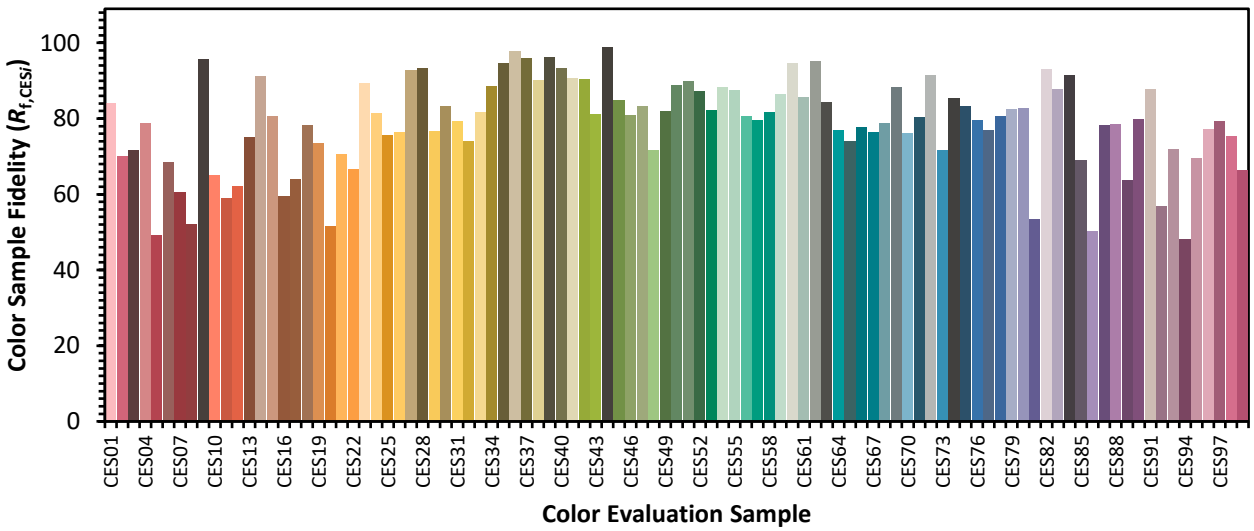


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

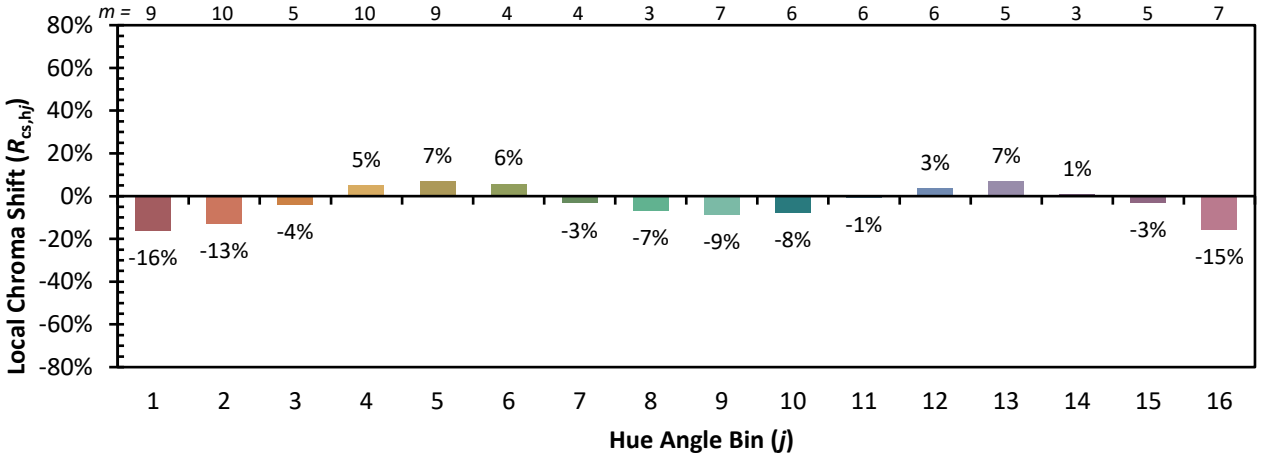
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

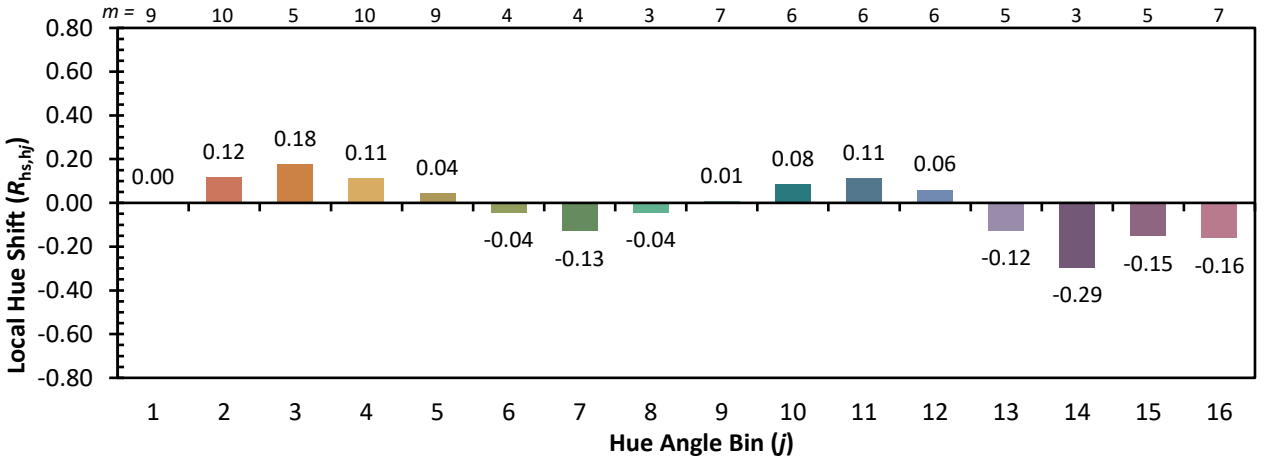


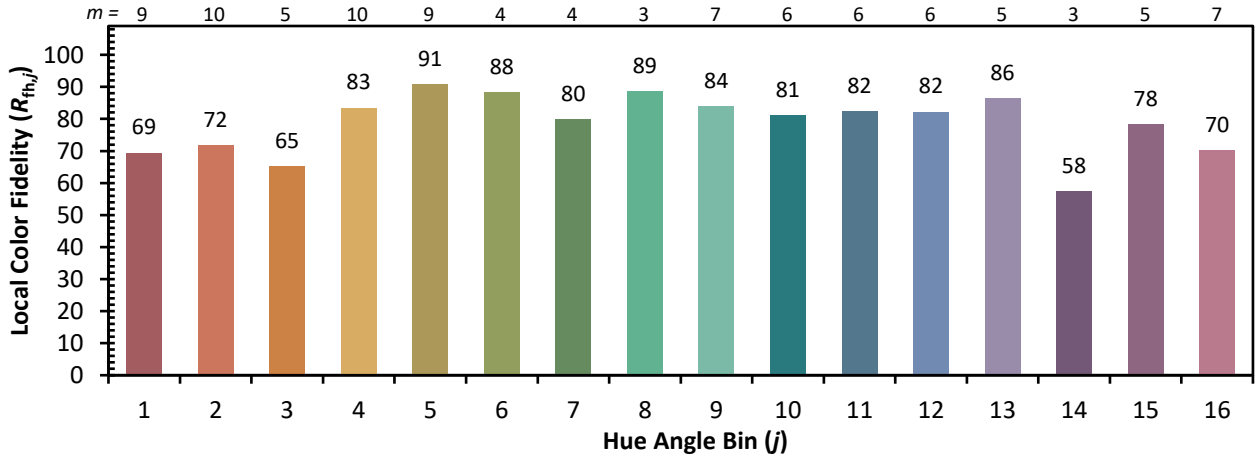
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



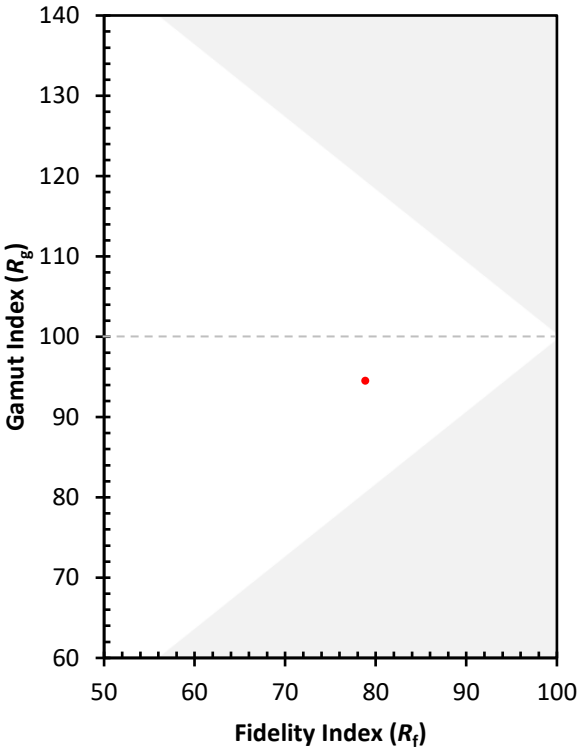


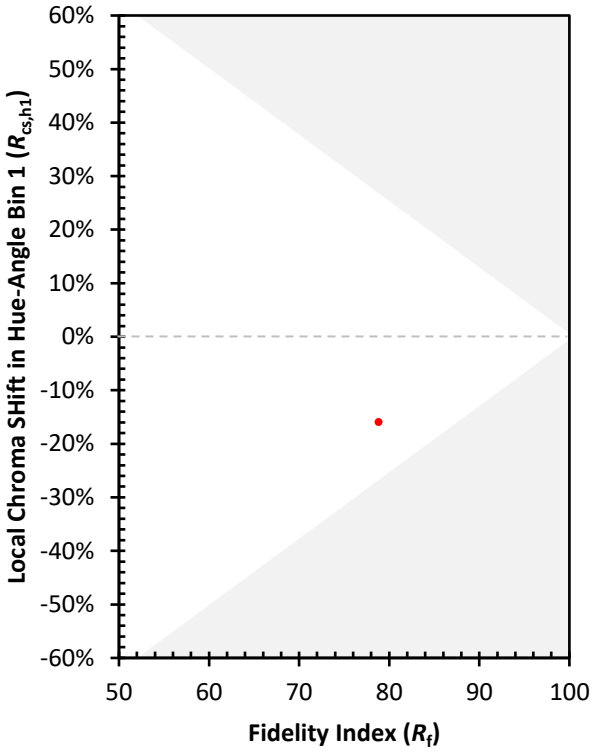


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TM-30-18

Measure Comparisons





(END OF REPORT)