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: P1046243

Luminaire Tested: **FFX-CLB-30-727-U-FR-T4-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:	P1046243
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-727-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4114.8 lumens
Efficiency:	N/A
Efficacy:	134.5 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

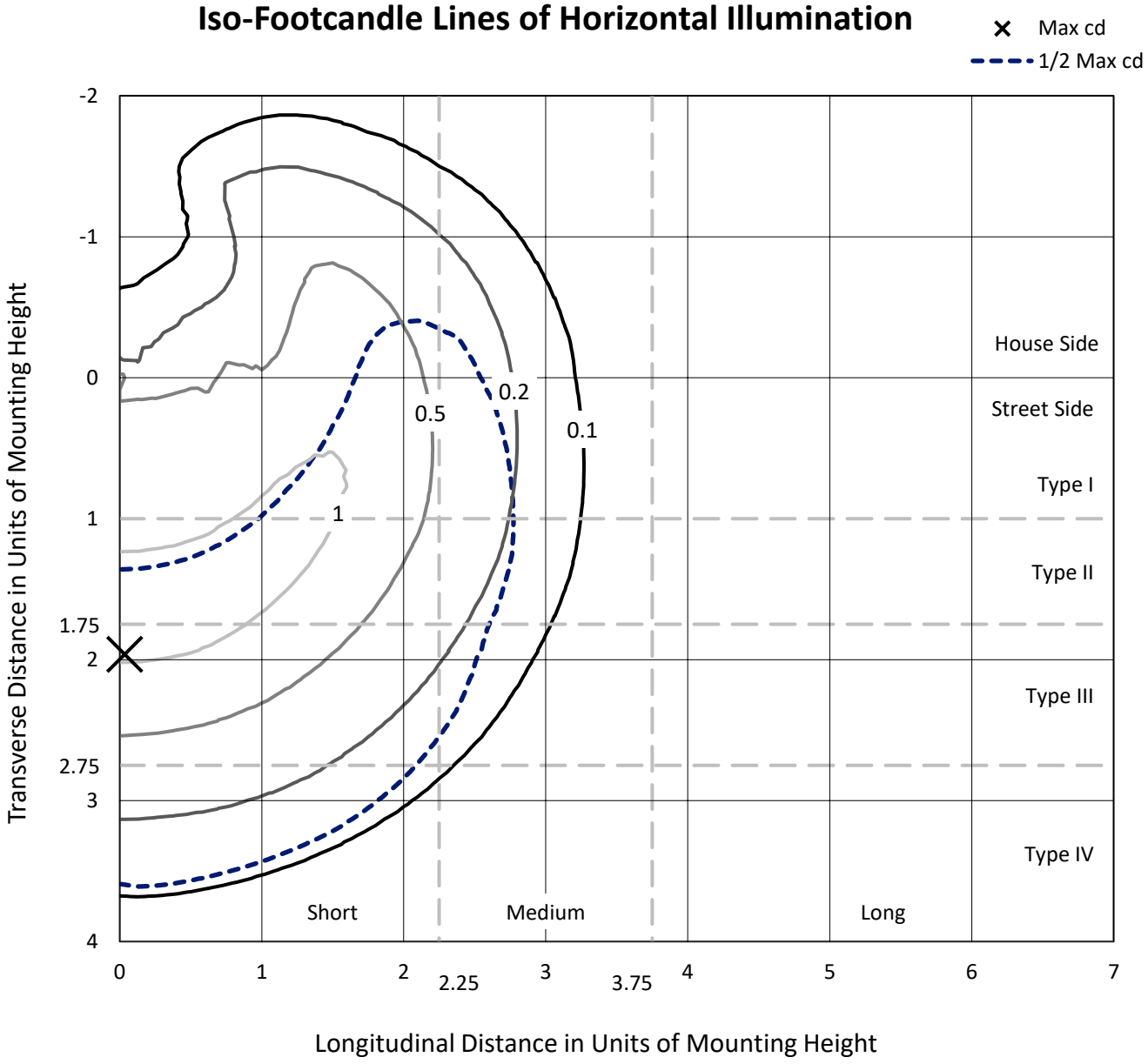


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Iso-Footcandle Lines of Horizontal Illumination



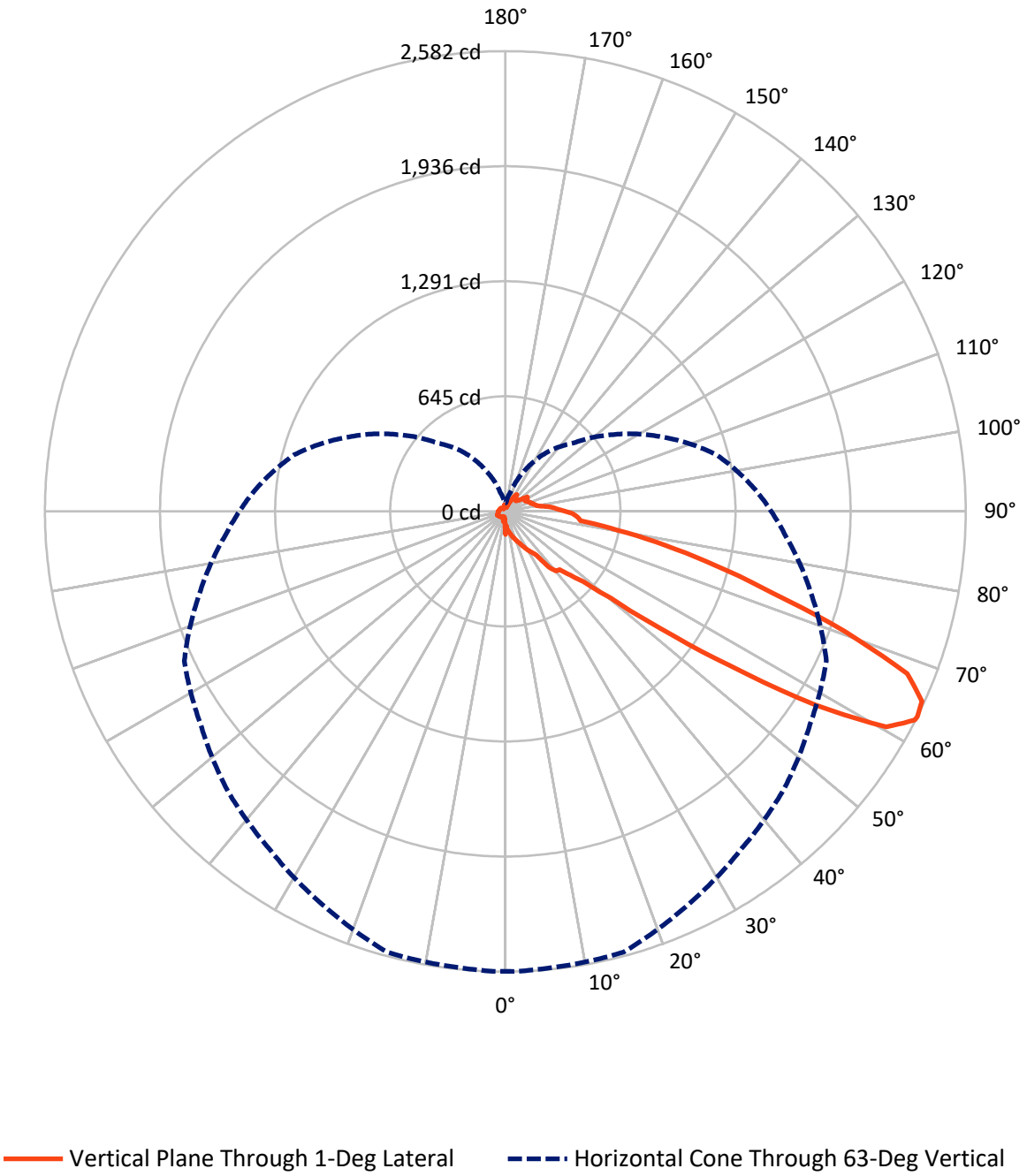
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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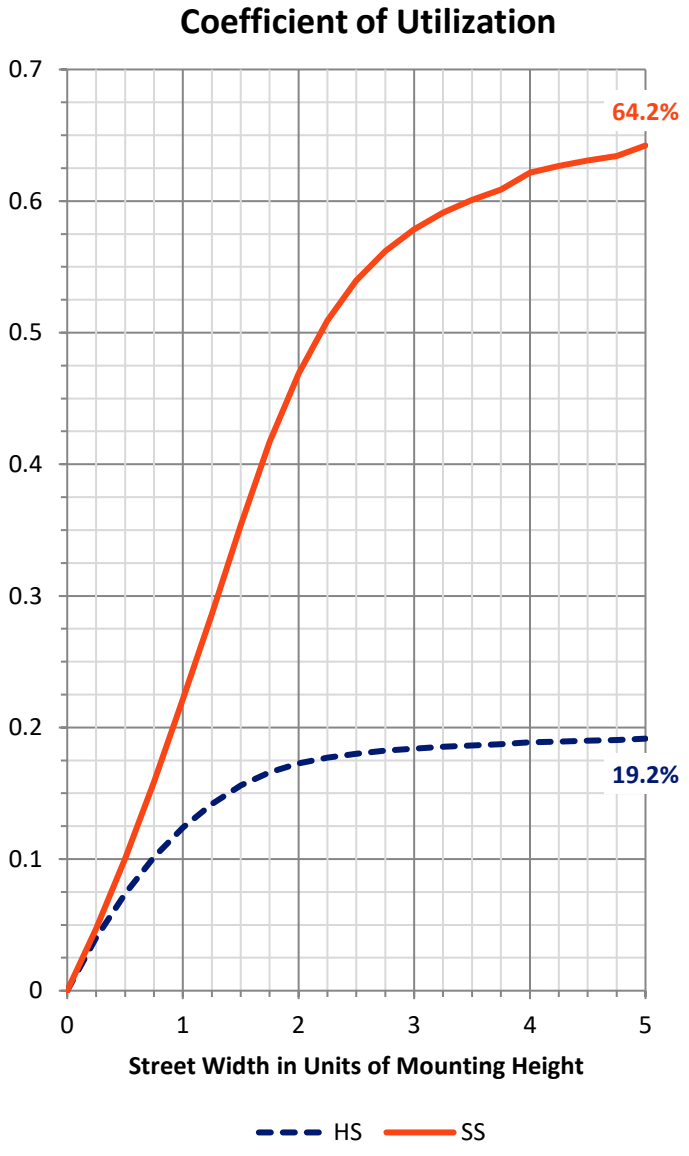
REPORT NUMBER: P1046243
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.7	163.2	977.9
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	2760.1	376.8	3136.9
	% Fixture	67.1	9.2	76.2
Total	Lumens	3574.8	540.0	4114.8
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.2
10°-20°	27.1	0.7
20°-30°	59.7	1.5
30°-40°	122.2	3.0
40°-50°	246.7	6.0
50°-60°	796.5	19.4
60°-70°	1312.2	31.9
70°-80°	723.3	17.6
80°-90°	279.4	6.8
90°-100°	167.6	4.1
100°-110°	106.7	2.6
110°-120°	81.6	2.0
120°-130°	69.6	1.7
130°-140°	46.7	1.1
140°-150°	39.8	1.0
150°-160°	18.1	0.4
160°-170°	7.3	0.2
170°-180°	2.5	0.1
0°-90°	3574.8	86.9
0°-180°	4114.8	100.0



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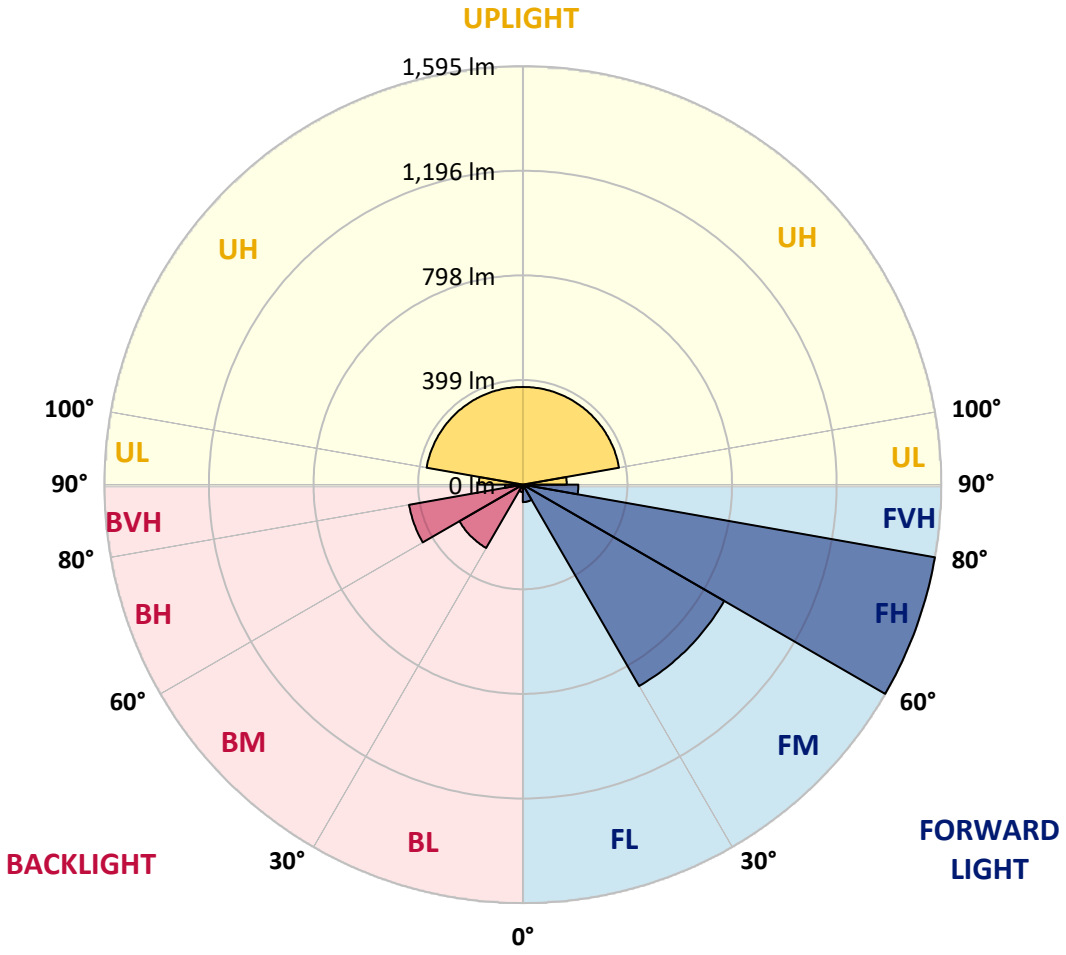
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	66.7	1.6			
FM	(30°-60°)	886.5	21.5			
FH	(60°-80°)	1595.2	38.8			G1/1800
FVH	(80°-90°)	211.7	5.1			G2/225
BL	(0°-30°)	27.8	0.7	B0/110		
BM	(30°-60°)	278.9	6.8	B1/1000		
BH	(60°-80°)	440.3	10.7	B1/500		G1/500
BVH	(80°-90°)	67.7	1.6			G1/100
UL	(90°-100°)	167.6	4.1		U3/500	
UH	(100°-180°)	372.4	9.1		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
2.5°	80.5	79.6	83.4	95.1	108.0	112.1	103.6	100.4	109.8	131.4	133.8
5°	92.8	94.3	93.4	94.8	96.0	105.1	113.3	104.8	84.9	69.4	70.5
7.5°	109.5	109.2	109.2	108.0	102.2	92.8	90.2	96.9	97.2	81.4	69.1
10°	116.8	116.5	116.5	115.3	114.2	115.0	112.1	99.8	89.9	83.4	79.3
12.5°	132.3	131.7	131.4	130.8	128.8	126.4	124.4	125.0	116.5	100.4	89.9
15°	145.2	144.6	145.2	145.8	144.3	140.2	134.4	126.2	118.5	111.8	102.4
17.5°	159.2	158.9	158.6	158.1	156.0	150.5	143.4	135.8	127.3	118.0	109.2
20°	172.7	172.1	172.4	172.7	171.8	165.1	158.1	148.7	139.6	130.5	120.3
22.5°	188.8	188.8	187.9	187.9	187.0	182.9	174.2	163.3	154.0	142.5	131.1
25°	209.6	208.7	208.7	207.8	204.3	199.9	193.8	181.5	170.4	159.5	144.3
27.5°	230.1	229.2	229.2	228.9	224.5	218.7	208.4	196.7	186.2	172.4	154.0
30°	253.5	252.9	253.2	250.0	246.5	238.3	225.4	211.9	198.2	182.1	164.2
32.5°	277.2	275.4	275.1	271.6	266.9	257.0	242.7	229.8	215.4	196.7	181.8
35°	305.0	301.2	305.3	304.4	303.8	293.3	276.9	262.0	245.0	228.0	211.9
37.5°	396.9	398.7	397.8	386.1	376.7	362.4	355.1	337.5	314.1	293.3	262.8
40°	440.2	439.6	438.2	425.3	416.8	401.9	390.2	377.0	363.2	330.8	293.0
42.5°	449.6	446.4	448.7	460.7	471.8	461.9	424.7	382.3	363.0	340.1	320.5
45°	518.1	509.9	513.4	516.6	505.8	491.5	475.4	447.8	415.3	382.6	346.6
47.5°	591.3	586.9	586.6	585.4	586.6	572.8	551.5	526.0	480.0	444.6	404.5
50°	769.5	763.7	765.4	766.9	760.7	746.7	723.6	706.9	651.9	583.9	531.8
52.5°	1096.5	1093.0	1084.8	1085.4	1030.0	1027.1	995.8	980.9	899.8	822.2	717.1
55°	1500.1	1522.9	1497.8	1492.8	1470.0	1449.5	1371.0	1306.1	1189.8	1078.3	955.1
57.5°	2046.9	2050.7	2018.8	2019.7	1938.6	1887.1	1814.8	1715.3	1542.3	1381.3	1243.1
60°	2445.3	2454.9	2440.0	2409.0	2252.1	2159.9	2080.3	2001.8	1869.8	1630.7	1438.4
62.5°	2574.9	2577.9	2568.5	2552.1	2413.6	2296.0	2193.5	2079.7	1978.4	1763.0	1569.8
63°	2579.6	2581.7	2574.3	2560.3	2431.8	2309.7	2207.3	2085.5	1986.3	1774.7	1577.7
65°	2567.0	2567.9	2564.7	2546.0	2443.2	2314.1	2201.4	2081.4	1990.4	1779.4	1577.7
67.5°	2453.8	2431.5	2440.9	2409.3	2323.8	2195.3	2087.6	1965.2	1883.3	1679.3	1486.1
70°	2018.8	2020.3	2018.8	2001.5	1977.2	1875.7	1749.8	1639.7	1536.1	1376.0	1224.4
72.5°	1561.9	1568.0	1554.6	1564.5	1544.9	1460.9	1379.5	1268.0	1195.1	1059.3	925.5
75°	1209.8	1222.3	1226.4	1198.0	1181.1	1163.2	1118.7	1038.5	965.6	860.6	743.8
77.5°	914.1	916.5	920.0	900.7	878.4	885.4	879.0	840.9	779.8	702.5	609.7
80°	631.7	638.4	649.8	638.7	641.3	637.2	636.3	605.9	561.7	513.1	463.4
82.5°	424.4	424.1	427.1	444.9	461.3	460.7	434.7	391.9	369.4	355.3	327.2
85°	406.3	406.3	410.4	397.5	389.3	381.1	379.3	364.7	347.4	315.8	276.9
87.5°	378.8	377.9	379.1	367.9	357.1	354.5	351.8	339.2	331.6	304.1	268.4
90°	324.0	326.4	326.4	325.5	318.8	316.1	305.6	295.0	290.4	265.5	237.4
92.5°	286.0	286.0	289.2	283.6	276.3	280.4	262.3	248.5	242.1	225.4	203.1
95°	258.5	257.6	261.7	253.8	248.5	240.9	233.3	218.9	214.3	199.9	177.4
97.5°	206.4	205.5	207.8	204.0	195.8	192.3	184.1	172.7	168.3	154.8	141.1
100°	177.7	177.4	178.3	176.2	171.5	167.1	160.1	151.0	146.9	135.8	123.5
102.5°	168.6	167.7	168.0	168.3	161.6	157.5	150.7	143.7	139.6	130.5	117.1
105°	160.4	159.8	159.2	159.2	151.6	147.5	143.1	138.4	134.9	125.0	112.1
107.5°	152.8	151.9	149.9	149.6	144.6	140.2	134.9	130.8	127.3	118.3	106.0

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	144.3	*144.0*	142.8	143.1	139.9	133.2	128.8	123.8	119.4	111.5	100.7
112.5°	139.9	*139.9*	139.0	140.5	128.2	121.5	116.8	112.4	109.5	101.9	93.7
115°	135.2	*132.9*	132.0	134.9	120.9	111.5	106.8	102.2	99.2	91.6	84.9
117.5°	125.3	*124.7*	125.0	127.3	123.2	113.0	105.4	99.5	96.6	91.0	84.9
120°	142.8	*142.3*	138.7	138.2	131.1	122.9	118.0	114.7	110.3	101.3	89.6
122.5°	149.3	*148.1*	142.5	144.3	134.9	130.8	128.8	127.6	123.5	111.5	93.7
125°	130.0	*128.2*	126.7	127.3	122.1	116.8	114.7	113.0	108.9	102.2	89.3
127.5°	104.2	*105.1*	103.9	100.7	99.8	91.9	89.3	87.2	83.4	77.9	75.8
130°	97.8	*97.2*	96.9	96.3	95.7	89.9	85.8	80.8	77.6	72.9	67.3
132.5°	86.9	*87.5*	88.4	93.4	98.1	93.1	82.5	74.9	72.9	73.8	71.4
135°	82.5	*82.8*	82.8	86.6	90.7	85.8	77.9	70.5	69.7	72.9	70.0
137.5°	84.6	*86.1*	85.8	84.9	82.5	79.0	77.3	73.2	70.8	68.8	63.8
140°	89.3	*91.0*	90.2	85.2	83.4	81.7	82.8	81.4	75.5	68.5	61.2
142.5°	88.7	*90.2*	89.6	89.0	92.2	88.1	82.5	77.0	72.3	68.5	63.8
145°	115.0	*114.4*	112.1	112.1	108.3	102.2	98.3	92.5	86.9	82.0	74.3
147.5°	106.3	*107.7*	108.3	105.7	103.9	99.8	99.2	96.0	94.3	89.9	82.0
150°	84.3	*85.5*	83.7	81.7	80.8	81.1	79.6	77.3	75.5	72.3	68.8
152.5°	58.2	*58.8*	58.2	56.5	55.9	55.0	55.3	53.6	52.4	50.3	47.1
155°	53.0	*53.3*	53.6	50.6	50.1	50.3	50.6	49.5	47.1	45.4	41.6
157.5°	41.6	*41.0*	41.0	40.4	40.7	39.8	39.8	39.5	38.6	37.5	36.3
160°	33.1	*33.4*	33.4	33.4	34.0	33.4	33.4	32.5	32.5	31.9	31.3
162.5°	28.1	*28.1*	28.1	28.1	27.8	27.8	28.4	28.1	28.1	28.4	29.0
165°	23.7	*24.0*	24.0	24.0	24.0	24.0	24.6	24.6	25.2	26.3	27.8
167.5°	22.2	*22.0*	22.0	22.2	22.2	22.8	22.8	24.0	26.1	28.1	28.1
170°	21.1	*21.1*	21.1	21.4	21.4	21.7	22.5	24.6	26.9	27.8	26.6
172.5°	22.0	*21.7*	21.7	22.0	22.0	22.8	24.0	25.8	26.6	26.6	25.5
175°	22.5	*22.2*	22.2	22.5	22.5	23.1	24.3	25.5	26.1	26.3	26.3
177.5°	22.0	*22.0*	22.0	22.0	22.0	22.2	22.2	23.1	23.7	24.3	24.9
180°	21.1	*21.1*	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
2.5°	133.8	122.1	104.8	83.7	97.5	114.4	112.1	98.9	79.0	59.4	59.4
5°	74.1	78.4	82.8	72.6	65.0	64.4	62.6	56.2	55.3	45.7	43.0
7.5°	64.7	60.6	59.7	70.5	69.7	46.0	36.3	32.2	34.0	46.0	47.4
10°	77.6	75.8	70.2	58.5	48.9	44.5	44.2	44.8	41.0	33.1	31.0
12.5°	87.5	84.6	79.6	76.1	65.0	51.8	44.5	41.3	43.6	55.3	58.0
15°	97.2	93.1	84.6	74.9	63.8	54.2	46.5	39.8	39.8	38.1	37.2
17.5°	104.8	99.5	89.3	78.7	66.2	54.2	44.2	37.5	34.2	33.7	33.7
20°	114.4	109.5	98.3	85.5	69.7	54.7	43.9	37.5	33.7	32.2	31.9
22.5°	126.4	120.0	105.7	90.4	71.7	55.3	44.5	37.8	34.0	31.9	31.3
25°	137.6	130.3	113.3	97.5	76.4	56.8	45.1	38.6	34.5	32.2	31.9
27.5°	146.6	138.7	122.9	104.8	81.4	60.3	48.0	40.4	35.4	33.1	32.5
30°	156.9	149.6	132.9	112.4	86.1	64.7	52.1	43.6	38.1	34.8	34.5
32.5°	172.1	163.0	143.7	120.3	91.6	69.4	56.2	46.5	39.8	38.1	38.1
35°	199.6	190.3	164.8	133.2	96.9	74.1	60.3	49.8	42.4	38.3	38.1
37.5°	251.1	238.3	206.4	162.5	106.0	77.9	63.8	52.4	43.9	38.1	37.2
40°	274.9	252.9	218.9	178.0	119.1	82.3	66.7	54.4	44.2	38.9	38.3
42.5°	303.0	284.5	236.5	181.8	128.8	93.1	71.7	56.8	46.0	40.1	39.5
45°	329.9	312.0	271.6	214.8	150.5	109.2	80.5	61.5	48.9	41.9	40.7
47.5°	378.8	360.0	303.8	248.8	180.3	134.4	98.1	68.8	53.0	43.6	42.1
50°	505.8	479.2	413.0	329.6	230.7	170.6	125.6	84.0	58.5	44.5	42.7
52.5°	669.7	629.0	557.3	450.8	329.9	241.5	175.9	122.1	68.2	44.8	42.1
55°	935.5	885.4	770.1	614.4	461.9	360.3	266.4	187.6	100.4	46.8	41.9
57.5°	1187.5	1150.3	1049.6	840.7	612.6	457.8	350.4	264.0	136.7	51.5	43.9
60°	1372.8	1302.0	1184.3	970.0	740.0	531.3	389.9	274.6	140.5	52.4	45.4
62.5°	1483.4	1395.9	1221.5	988.8	758.1	546.5	405.7	252.6	113.6	51.2	47.4
63°	*1491.6*	*1406.7*	*1226.1*	*982.3*	*752.3*	*542.4*	*403.3*	*247.3*	*110.3*	*50.9*	*48.0*
65°	1481.4	1407.6	1209.8	948.7	702.5	506.1	375.5	222.2	89.6	50.1	48.6
67.5°	1379.5	1319.5	1124.0	857.6	625.5	437.0	310.9	169.5	70.0	47.7	47.1
70°	1154.7	1085.9	908.6	708.9	495.8	353.0	247.9	131.4	57.7	45.4	44.8
72.5°	859.4	830.7	690.2	539.5	381.4	272.2	186.2	99.8	51.2	43.6	43.0
75°	694.9	651.9	547.4	426.2	290.1	202.3	138.2	74.9	46.8	42.1	41.6
77.5°	574.6	545.9	455.4	321.7	206.9	145.8	101.6	59.4	44.8	41.3	41.0
80°	444.9	427.1	355.3	238.0	148.1	108.6	80.5	54.4	43.9	41.0	40.7
82.5°	313.8	308.2	258.8	178.0	125.9	97.2	74.9	53.6	44.2	41.6	41.0
85°	259.9	247.9	217.8	169.2	119.4	93.1	72.3	52.7	44.2	41.3	41.0
87.5°	253.2	243.2	210.7	158.4	109.5	86.1	67.9	50.6	42.7	40.1	39.8
90°	228.9	218.9	188.8	141.4	103.0	80.8	63.5	48.0	41.0	38.9	38.3
92.5°	195.2	186.2	163.9	128.5	98.6	77.6	61.8	47.1	40.7	38.3	38.1
95°	169.5	161.9	143.7	118.3	91.0	72.3	58.5	45.4	39.5	37.5	37.2
97.5°	134.9	130.3	116.2	96.3	77.0	63.2	52.4	42.7	38.1	36.3	36.0
100°	118.8	114.7	103.6	87.2	71.4	59.7	50.6	41.9	36.9	35.4	35.1
102.5°	111.5	108.3	98.3	82.0	67.0	56.8	48.3	40.4	36.0	34.5	34.2
105°	106.0	103.0	94.0	78.2	63.2	53.0	45.4	38.6	34.5	33.4	33.1
107.5°	99.2	96.9	88.1	72.6	59.4	49.8	43.0	37.2	33.7	32.5	32.5

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

Scaled Data Report

REPORT NUMBER: P1046243
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	93.7	91.9	82.8	69.4	56.8	47.7	41.6	36.6	33.4	32.2	32.2
112.5°	87.8	85.8	77.3	65.3	54.4	46.2	40.4	35.7	32.8	31.6	31.6
115°	81.4	79.3	71.1	60.6	51.5	43.9	38.6	34.2	31.6	30.7	30.7
117.5°	82.5	77.3	67.3	58.0	49.2	42.1	37.5	33.7	30.7	30.1	29.9
120°	83.7	77.0	69.7	60.9	50.6	41.3	36.6	32.8	30.4	29.6	29.6
122.5°	81.7	82.5	76.1	62.6	48.3	40.4	36.3	33.1	30.7	29.9	30.1
125°	79.9	82.0	74.3	59.1	46.5	40.1	36.3	34.0	31.9	31.0	31.0
127.5°	73.5	73.8	63.2	53.0	45.4	39.2	36.0	34.2	32.5	31.3	30.7
130°	64.7	64.1	59.1	51.5	42.7	37.8	34.8	34.0	32.2	30.1	29.9
132.5°	69.4	67.6	59.4	48.9	40.4	36.3	34.5	33.4	30.4	28.1	27.8
135°	65.9	64.1	55.6	45.7	39.2	36.9	36.0	33.1	28.7	26.9	26.6
137.5°	60.0	57.1	50.1	43.6	39.8	38.3	36.3	32.5	28.1	26.1	25.8
140°	57.7	54.7	49.2	44.8	40.4	35.7	32.2	28.7	25.8	24.0	23.7
142.5°	60.6	58.2	52.7	44.8	37.8	32.8	29.6	27.2	24.6	22.0	21.7
145°	70.5	66.2	58.5	50.3	43.0	37.2	32.2	27.2	22.5	19.6	19.3
147.5°	78.2	74.6	66.4	57.1	46.8	37.5	30.1	24.0	20.2	18.4	18.1
150°	65.0	62.9	56.8	49.2	41.6	33.1	26.1	21.4	19.0	18.4	18.4
152.5°	45.4	43.9	41.9	36.9	31.0	26.1	22.2	19.9	19.0	18.7	18.7
155°	40.1	39.2	36.6	32.2	28.1	24.3	21.4	19.6	19.3	19.0	19.0
157.5°	34.5	34.2	32.5	29.0	25.8	22.8	20.8	19.9	19.3	19.0	19.0
160°	31.0	30.1	28.4	26.1	24.0	22.2	21.1	20.5	19.9	19.6	19.6
162.5°	29.0	28.4	26.3	24.6	23.4	23.1	23.4	23.1	21.7	20.8	20.5
165°	27.5	27.2	25.2	24.0	23.4	24.9	26.6	26.1	23.4	22.0	22.0
167.5°	27.5	26.9	24.9	24.0	25.5	27.5	29.0	28.7	26.3	24.9	24.0
170°	26.1	25.5	24.9	25.2	27.2	28.1	28.4	29.0	29.3	30.7	31.3
172.5°	25.2	25.2	25.8	26.9	28.7	29.0	28.1	28.4	31.0	34.2	34.5
175°	26.3	26.3	27.5	29.6	30.4	31.0	29.9	30.1	33.1	36.3	36.6
177.5°	25.2	25.5	26.1	26.3	26.1	25.2	24.9	26.1	25.2	24.9	25.8
180°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

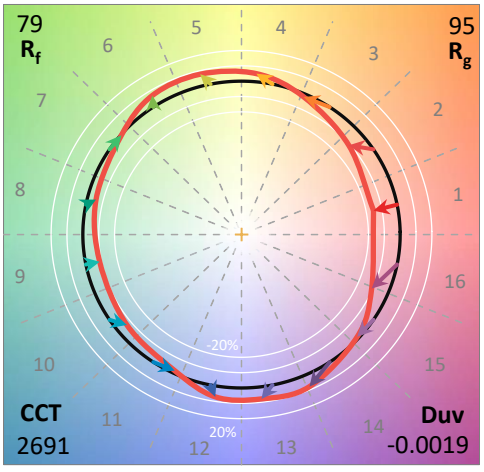
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

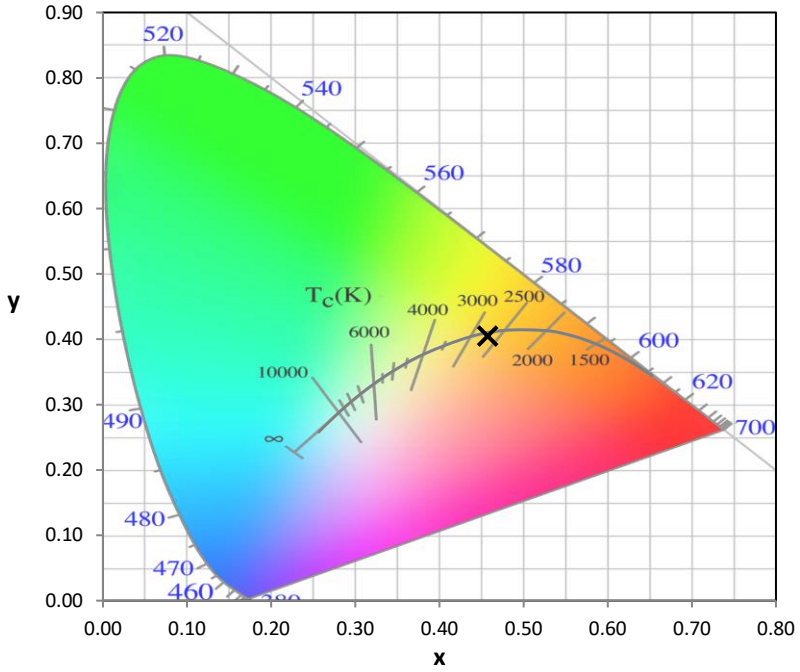
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

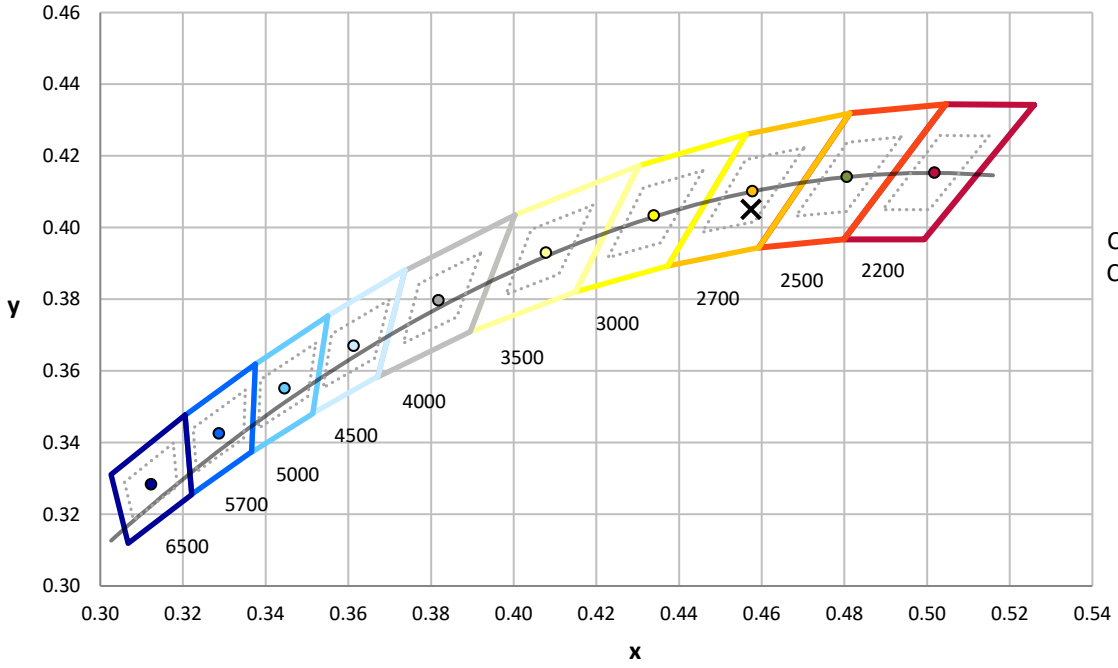
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

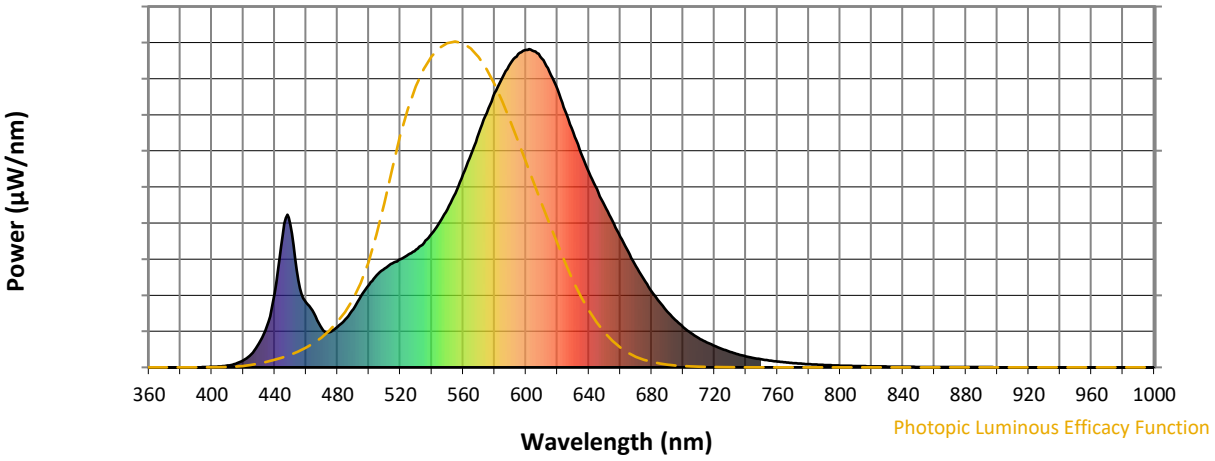


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

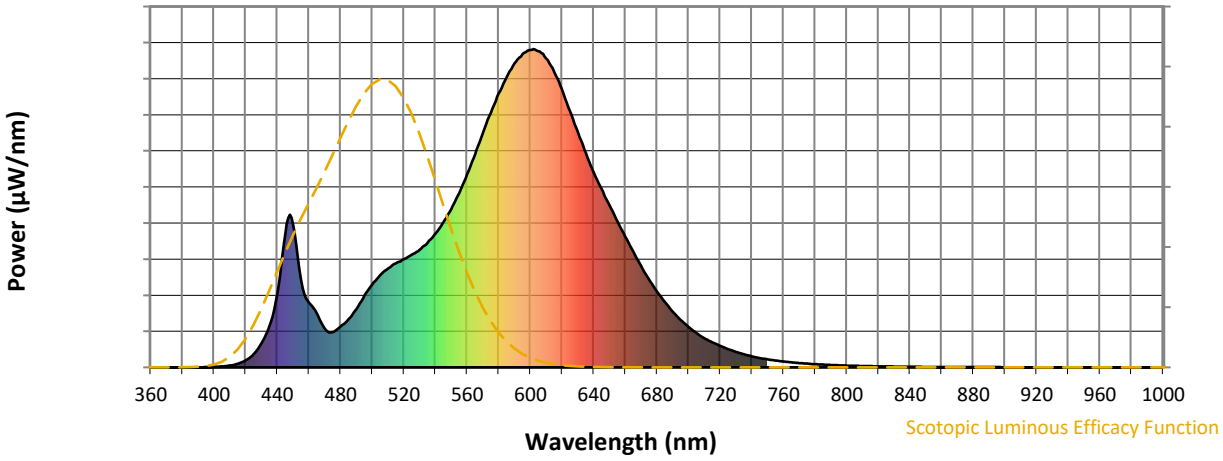


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

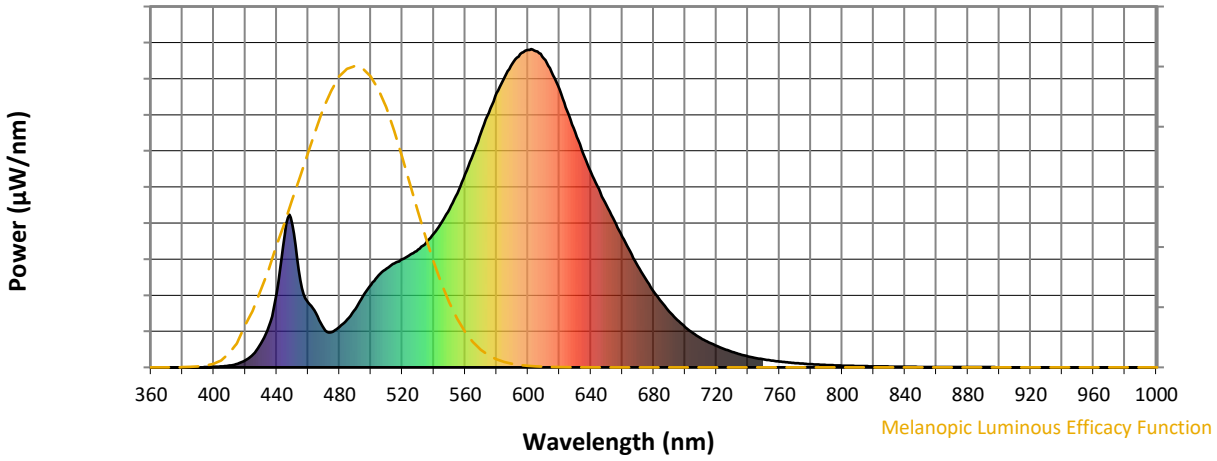


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

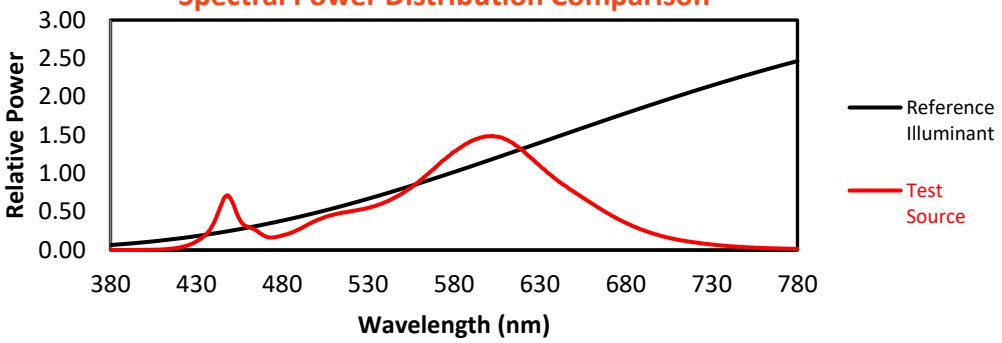
REPORT NUMBER: SP1-2501-332-8

TM-30-18

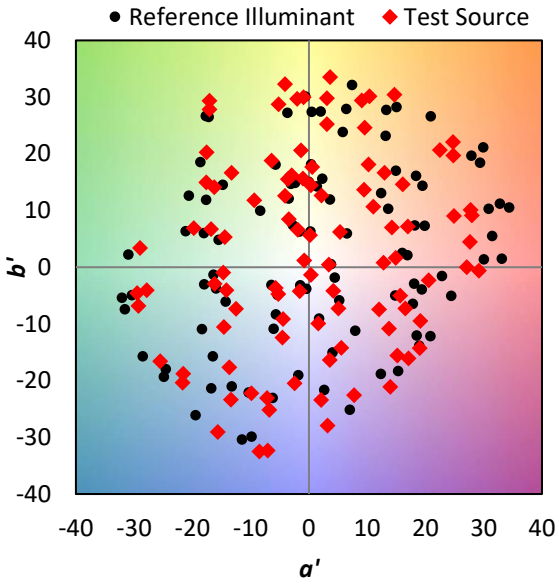
Summary

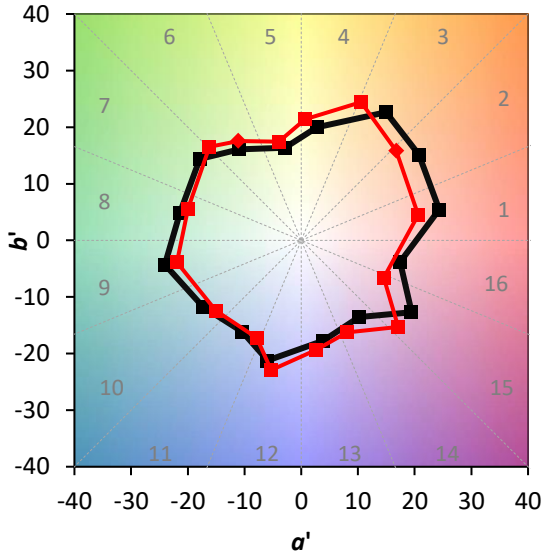
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

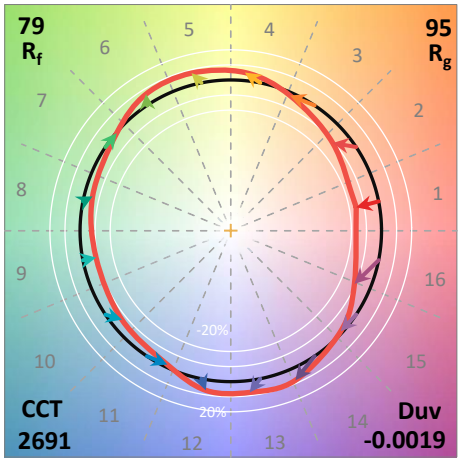
Spectral Power Distribution Comparison

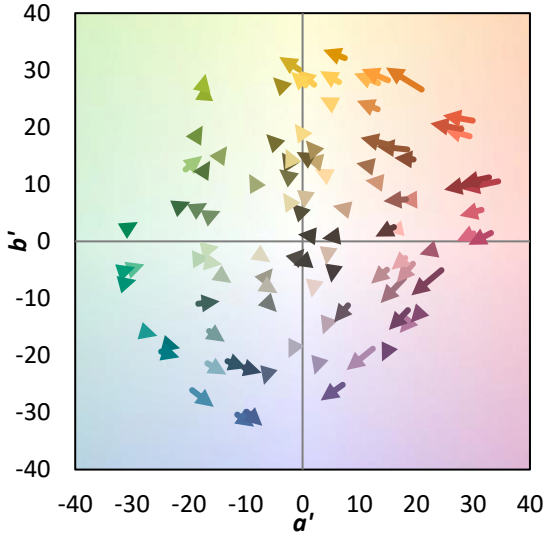


Color Vector Graphics







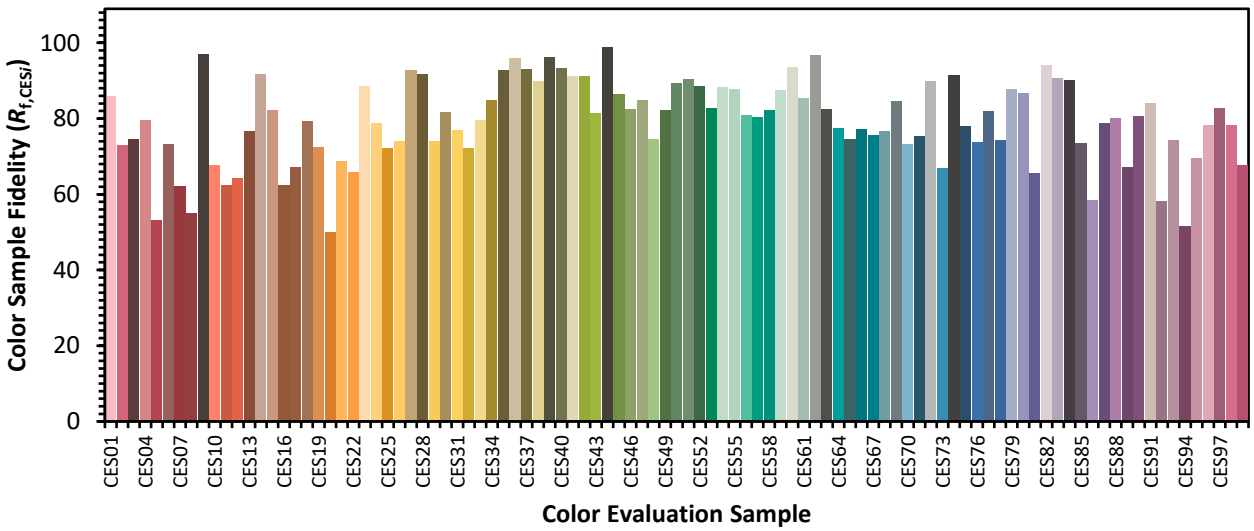


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

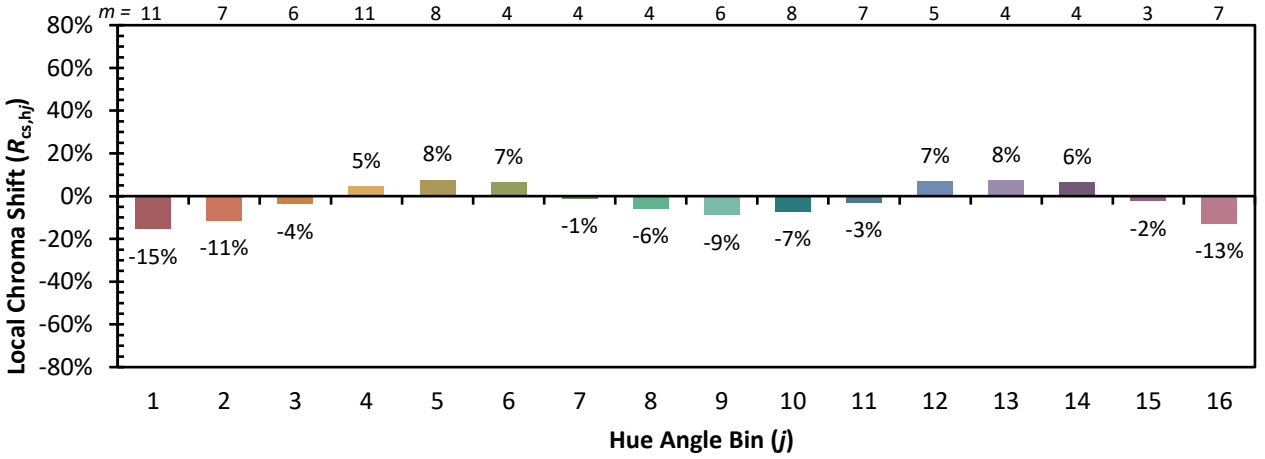
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

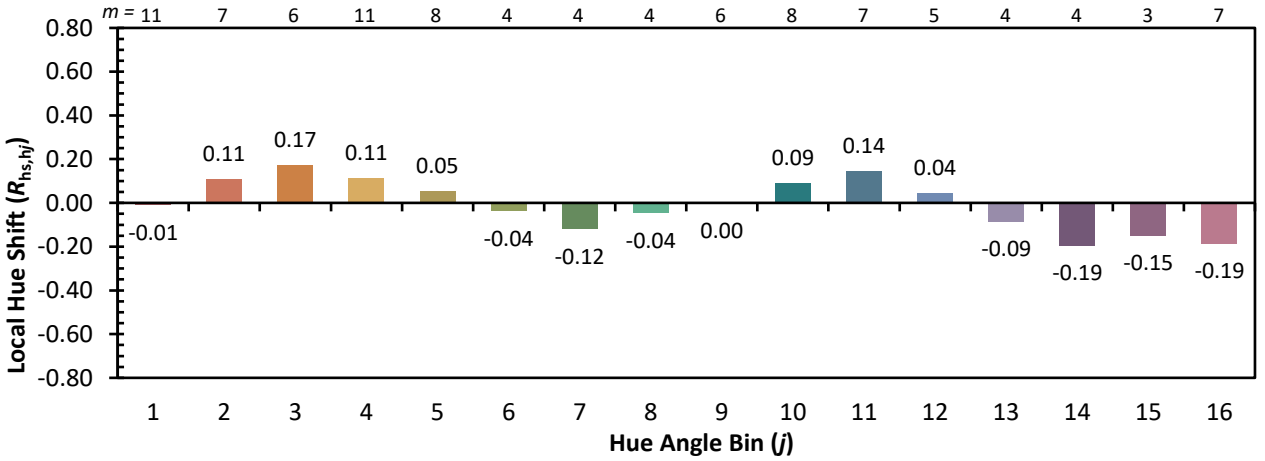


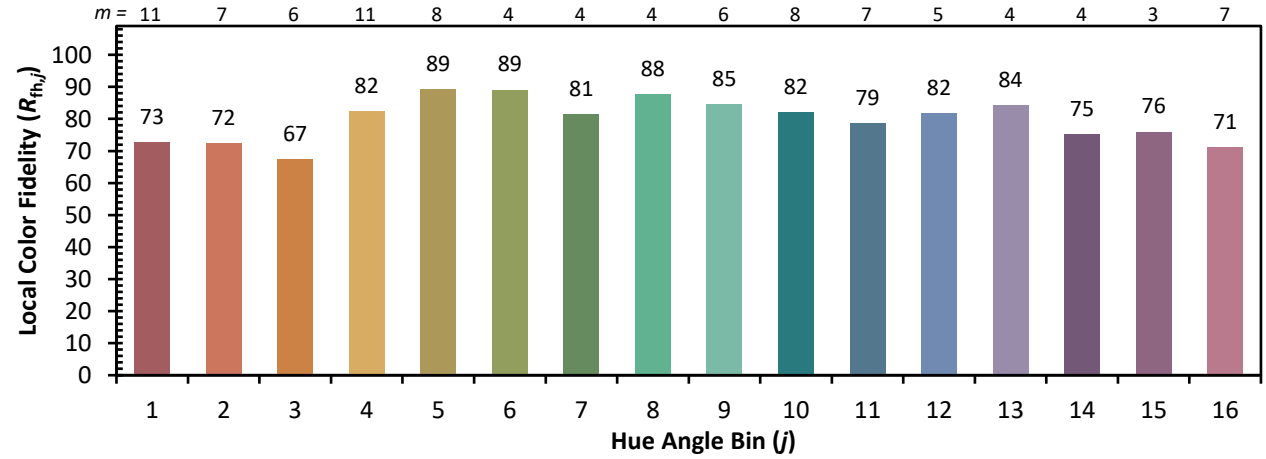
REPORT NUMBER: SP1-2501-332-8

TM-30-18

Color Rendition by Hue-Angle Bin



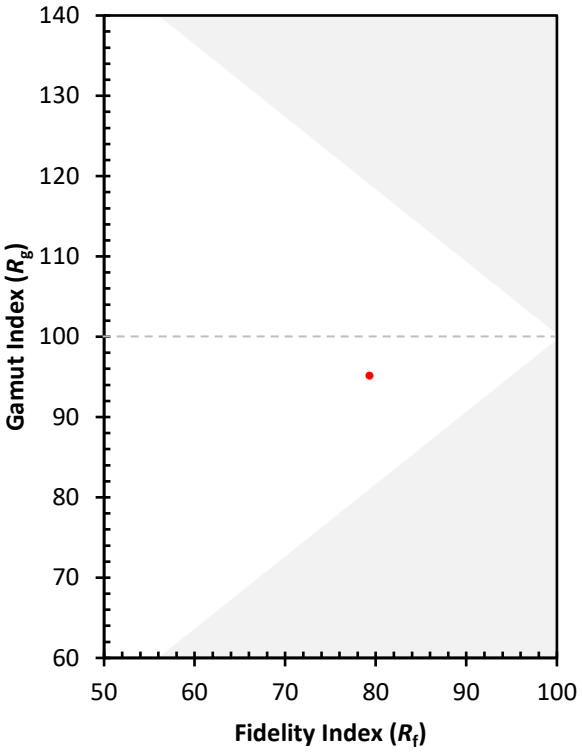


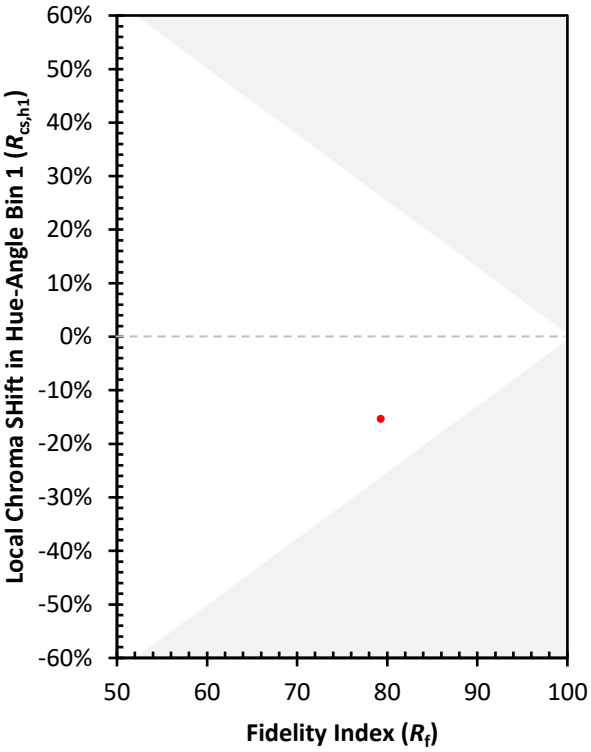


REPORT NUMBER: SP1-2501-332-8

TM-30-18

Measure Comparisons





(END OF REPORT)