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: P1045960

Luminaire Tested: **FFX-CLB-70-722-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:	P1045960
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-PG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6415.1 lumens
Efficiency:	N/A
Efficacy:	90.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G4

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

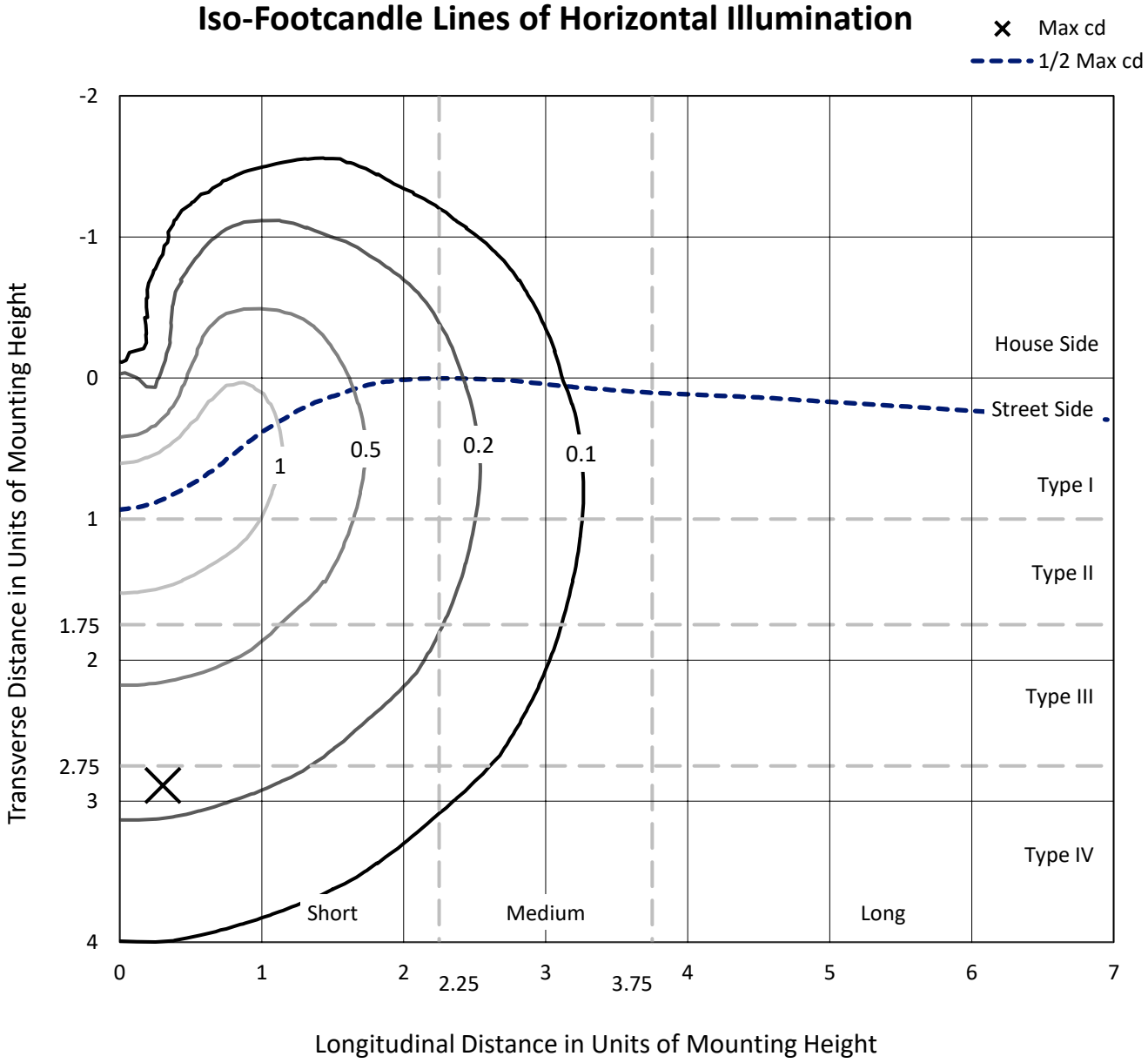


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Iso-Footcandle Lines of Horizontal Illumination



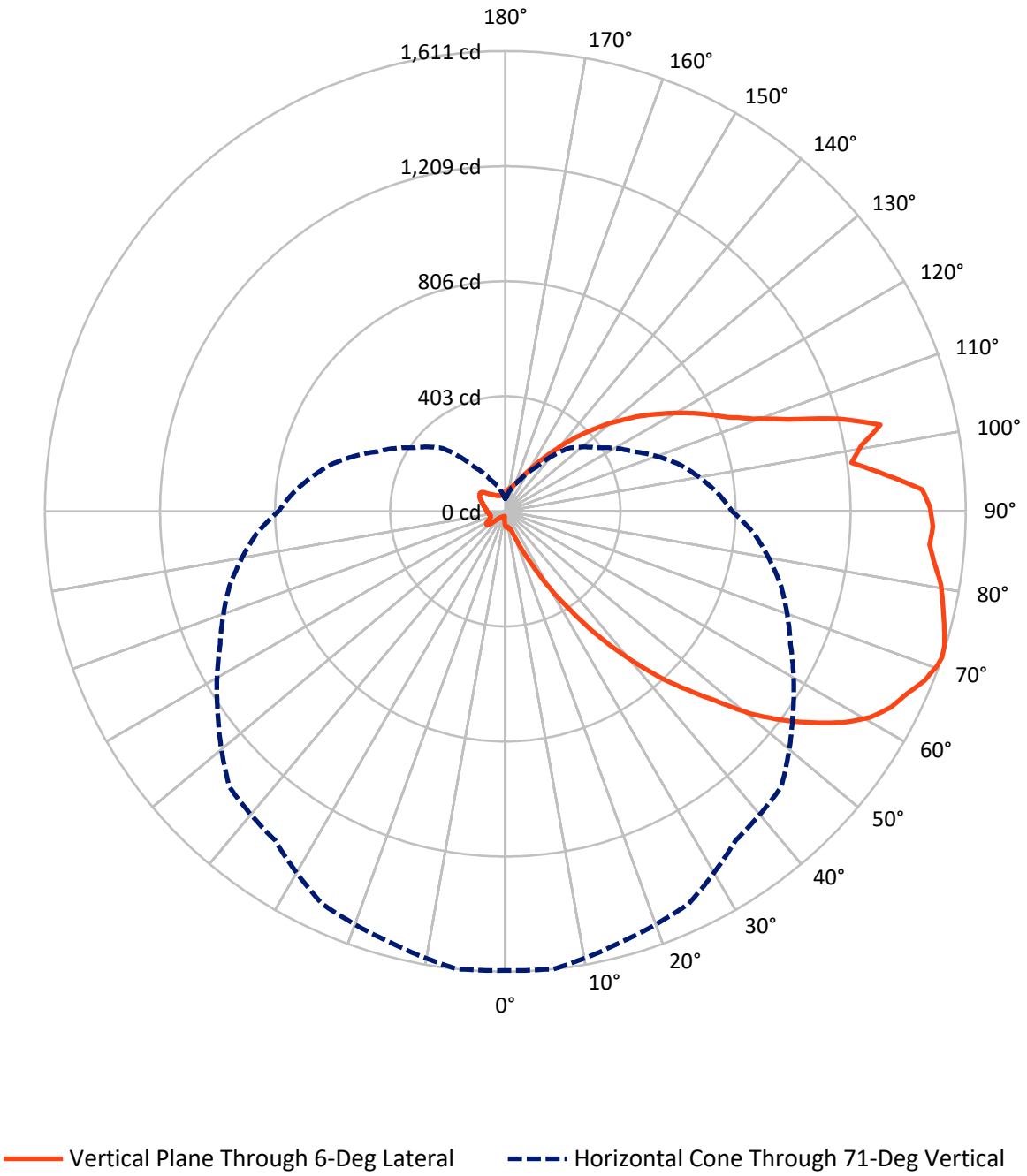
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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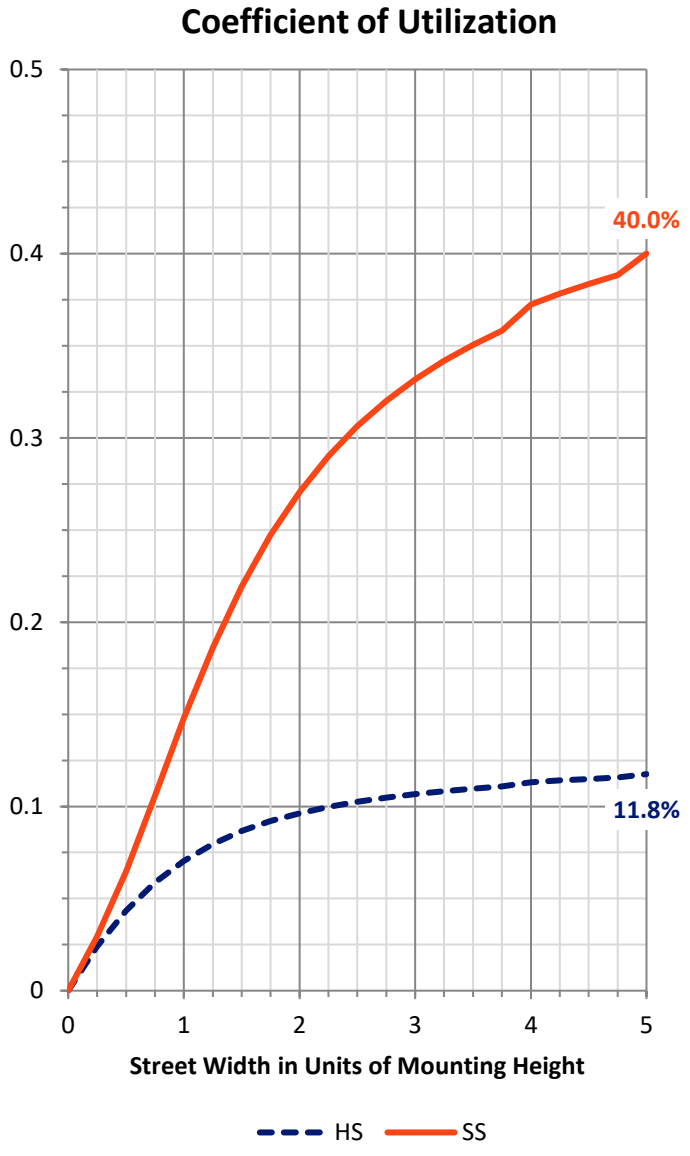
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	823.7	653.3	1477.0
	% Fixture	12.8	10.2	23.0
Street Side	Lumens	3005.0	1933.1	4938.1
	% Fixture	46.8	30.1	77.0
Total	Lumens	3828.8	2586.3	6415.1
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	13.4	0.2
20°-30°	60.9	0.9
30°-40°	203.7	3.2
40°-50°	415.1	6.5
50°-60°	638.6	10.0
60°-70°	794.7	12.4
70°-80°	849.9	13.2
80°-90°	848.4	13.2
90°-100°	766.7	12.0
100°-110°	670.6	10.5
110°-120°	457.1	7.1
120°-130°	322.9	5.0
130°-140°	195.7	3.1
140°-150°	99.2	1.5
150°-160°	46.3	0.7
160°-170°	21.2	0.3
170°-180°	6.6	0.1
0°-90°	3828.8	59.7
0°-180°	6415.1	100.0



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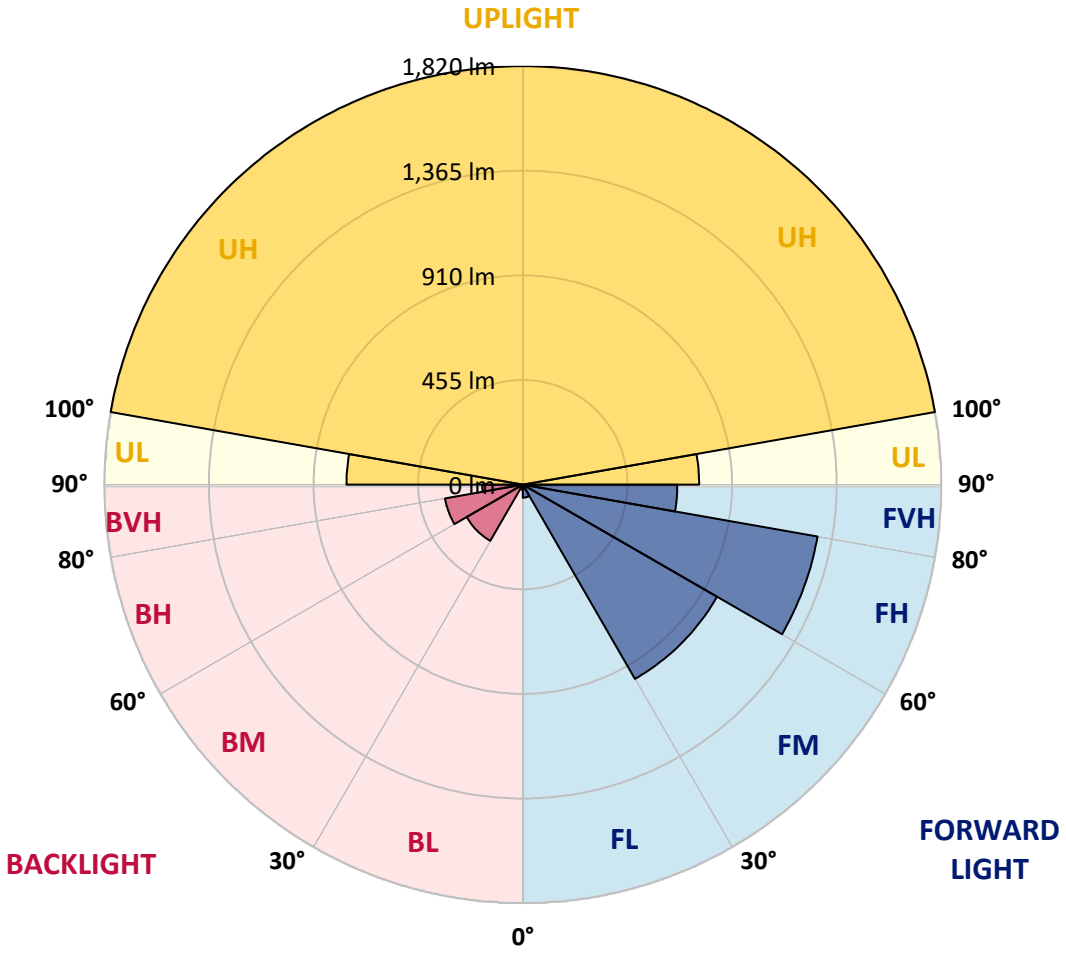
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	56.7	0.9			
FM	(30°-60°)	975.3	15.2			
FH	(60°-80°)	1301.1	20.3			G1/1800
FVH	(80°-90°)	671.9	10.5			G4/750
BL	(0°-30°)	21.7	0.3	B0/110		
BM	(30°-60°)	282.1	4.4	B1/1000		
BH	(60°-80°)	343.4	5.4	B1/500		G1/500
BVH	(80°-90°)	176.5	2.8			G2/225
UL	(90°-100°)	766.7	12.0		U4/1000	
UH	(100°-180°)	1819.6	28.4		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
0°	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
2.5°	56.4	56.4	56.4	56.4	56.4	56.4	55.7	54.3	53.6	52.9	52.2
5°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	52.9	52.2	50.9	49.5
7.5°	53.6	53.6	53.6	53.6	52.9	52.2	51.6	50.9	50.2	47.4	44.6
10°	58.5	59.2	58.5	58.5	56.4	54.3	52.9	50.9	49.5	48.1	44.6
12.5°	62.0	62.0	62.0	61.3	59.9	58.5	55.7	52.2	49.5	46.7	43.9
15°	64.1	64.1	64.1	64.1	62.7	60.6	58.5	55.7	52.9	49.5	46.0
17.5°	72.5	72.5	72.5	71.8	70.4	69.0	67.6	66.2	64.1	60.6	57.1
20°	95.4	97.5	96.8	94.7	93.4	92.0	92.7	91.3	89.9	85.0	79.4
22.5°	132.4	135.2	134.5	135.2	133.1	131.7	131.0	132.4	129.6	122.6	112.2
25°	186.0	186.0	183.9	189.5	190.2	183.2	184.6	183.9	181.8	169.3	152.6
27.5°	245.9	244.5	243.8	252.9	254.3	251.5	254.3	249.4	242.4	228.5	207.6
30°	315.6	321.2	323.9	325.3	329.5	332.3	335.8	331.6	312.8	296.1	266.8
32.5°	404.1	400.6	399.9	414.5	422.2	422.9	431.2	419.4	398.5	367.1	328.8
35°	501.6	493.2	494.6	503.7	516.2	525.3	531.5	508.6	487.0	445.9	395.7
37.5°	593.6	594.2	593.6	597.0	620.7	623.5	624.9	599.1	567.8	525.3	462.6
40°	687.6	689.0	692.5	703.6	728.7	723.8	712.7	689.7	649.3	601.2	527.4
42.5°	784.4	793.5	795.6	801.2	818.6	817.2	798.4	772.6	725.9	666.0	583.1
45°	888.2	886.8	890.3	898.0	911.9	911.9	878.5	840.9	790.0	722.4	633.3
47.5°	986.5	996.9	990.6	1009.5	1002.5	1007.4	950.2	904.3	848.5	768.4	675.1
50°	1110.5	1116.0	1114.0	1111.9	1091.0	1091.0	1032.4	970.4	907.7	813.0	716.9
52.5°	1215.7	1217.8	1214.3	1205.9	1176.7	1166.9	1097.9	1026.2	960.0	865.2	757.3
55°	1313.2	1299.3	1305.5	1292.3	1246.3	1235.9	1170.4	1068.7	1006.0	902.9	792.1
57.5°	1385.0	1392.6	1394.7	1366.1	1320.2	1277.7	1233.8	1119.5	1040.8	938.4	815.1
60°	1446.3	1467.2	1465.8	1422.6	1382.2	1306.2	1281.8	1164.1	1063.8	969.7	840.2
62.5°	1492.2	1514.5	1513.1	1478.3	1442.1	1335.5	1308.3	1190.6	1077.7	985.8	859.0
65°	1537.5	1548.0	1543.1	1529.2	1486.0	1362.7	1333.4	1202.4	1089.6	992.7	865.9
67.5°	1583.5	1582.8	1582.1	1562.6	1515.9	1387.7	1353.6	1219.8	1101.4	1000.4	870.8
70°	1606.5	1607.9	1607.2	1566.1	1522.9	1404.5	1364.7	1228.9	1104.2	1000.4	875.0
71°	1607.9	1610.0	1611.4	1561.9	1516.6	1405.8	1365.4	1228.9	1101.4	998.3	872.9
72.5°	1598.1	1608.6	1607.2	1551.5	1507.6	1403.8	1360.6	1223.3	1097.2	989.9	866.6
75°	1576.5	1595.3	1587.0	1530.6	1484.6	1389.8	1347.3	1217.8	1086.8	978.8	861.1
77.5°	1557.7	1579.3	1565.4	1513.1	1472.0	1380.1	1340.4	1219.1	1079.1	971.8	859.0
80°	1545.2	1557.0	1545.9	1502.7	1461.6	1368.9	1335.5	1219.8	1077.0	968.4	852.7
82.5°	1526.4	1521.5	1513.8	1479.7	1437.9	1348.7	1316.0	1208.7	1072.2	961.4	845.7
85°	1509.7	1489.4	1489.4	1458.8	1416.3	1332.7	1293.0	1195.5	1063.8	954.4	837.4
87.5°	1519.4	1492.2	1497.8	1468.5	1421.9	1334.8	1288.8	1194.1	1067.3	955.8	832.5
90°	1509.7	1483.9	1486.7	1456.0	1401.7	1313.2	1257.5	1166.2	1045.0	936.3	815.1
92.5°	1492.9	1465.8	1461.6	1430.2	1375.2	1291.6	1233.1	1148.1	1027.6	921.0	808.8
95°	1364.1	1344.5	1336.2	1313.9	1271.4	1198.2	1152.3	1070.8	950.9	853.4	756.6
97.5°	1231.7	1235.2	1223.3	1196.9	1150.2	1093.1	1042.2	964.2	863.2	778.9	684.8
100°	1283.9	1279.1	1267.2	1231.7	1182.9	1118.8	1058.9	983.7	885.4	809.5	705.7
102.5°	1341.1	1352.2	1347.3	1302.7	1247.7	1196.2	1150.9	1075.6	967.7	887.5	776.8
105°	1185.0	1207.3	1212.2	1177.3	1136.9	1093.7	1054.0	1001.1	907.7	825.5	738.5
107.5°	1033.1	1036.6	1040.1	1013.6	993.4	955.1	915.4	867.3	796.3	733.6	648.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
110°	927.9	931.4	*925.9*	914.7	893.8	864.5	820.7	787.2	725.2	672.3	594.9
112.5°	844.3	847.8	*843.6*	829.7	810.9	787.9	741.9	714.1	661.1	611.7	542.0
115°	790.7	794.9	*787.9*	773.3	757.3	744.7	705.0	663.9	615.8	572.0	512.0
117.5°	739.8	748.2	*732.2*	728.0	716.2	703.6	658.3	622.1	580.3	540.6	492.5
120°	684.1	691.1	*677.8*	673.0	666.0	653.5	611.0	578.2	544.8	509.3	463.3
122.5°	639.5	629.8	*623.5*	623.5	615.1	606.8	562.9	535.7	509.3	479.3	431.9
125°	588.7	575.4	*572.7*	577.5	567.1	555.9	521.1	496.7	476.5	446.6	399.9
127.5°	531.5	519.0	*519.0*	521.1	514.8	503.7	480.7	460.5	447.9	415.9	369.2
130°	477.9	470.9	*472.3*	467.5	461.2	452.1	435.4	420.8	410.3	378.3	344.8
132.5°	413.8	421.5	*421.5*	413.1	411.7	404.8	391.5	384.6	368.5	342.1	314.2
135°	368.5	374.8	*374.1*	366.4	365.7	361.6	351.8	345.5	330.2	307.9	284.9
137.5°	330.2	330.2	*328.8*	323.9	321.2	320.5	311.4	305.1	290.5	275.2	256.4
140°	292.6	286.3	*284.2*	284.9	280.8	280.1	272.4	264.7	257.8	243.1	227.8
142.5°	253.6	249.4	*247.3*	244.5	243.1	241.0	236.2	229.9	222.9	213.2	199.2
145°	216.7	216.7	*215.3*	212.5	212.5	209.7	204.8	201.3	195.1	184.6	173.5
147.5°	188.1	186.0	*186.0*	185.3	183.2	181.8	177.6	172.8	168.6	160.2	149.8
150°	161.6	161.6	*160.2*	161.6	160.2	158.1	155.4	151.2	146.3	140.0	131.7
152.5°	140.7	141.4	*140.0*	142.1	140.7	139.3	135.8	133.1	127.5	121.9	116.3
155°	125.4	126.1	*125.4*	124.7	124.7	122.6	121.2	117.0	113.6	108.7	103.8
157.5°	111.5	112.2	*112.2*	112.2	112.2	110.1	107.3	104.5	101.7	97.5	93.4
160°	102.4	101.7	*101.7*	101.0	100.3	99.6	97.5	94.7	92.7	89.2	85.7
162.5°	93.4	93.4	*93.4*	92.7	92.0	91.3	89.9	87.1	85.0	82.2	79.4
165°	87.1	87.1	*87.1*	87.1	85.7	85.0	83.6	81.5	80.1	77.3	74.5
167.5°	82.9	82.9	*82.9*	82.2	81.5	80.8	80.1	78.0	76.6	74.5	72.5
170°	79.4	79.4	*79.4*	79.4	78.7	77.3	76.6	75.2	73.8	72.5	70.4
172.5°	75.9	75.9	*75.9*	75.9	75.2	75.2	74.5	73.1	72.5	70.4	69.7
175°	73.1	73.1	*73.1*	73.1	72.5	72.5	71.8	71.1	70.4	69.7	68.3
177.5°	71.1	71.1	*71.1*	71.1	70.4	70.4	70.4	69.7	69.0	68.3	68.3
180°	68.3	68.3	*68.3*	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
2.5°	52.2	52.2	50.9	50.2	49.5	48.1	46.7	44.6	44.6	44.6	43.9
5°	48.8	48.1	46.7	44.6	43.9	43.2	41.8	39.0	35.5	32.7	32.7
7.5°	45.3	41.8	38.3	36.9	34.8	31.3	27.9	23.7	18.8	18.1	18.1
10°	42.5	40.4	36.2	32.7	29.3	28.6	25.8	21.6	19.5	17.4	17.4
12.5°	41.8	40.4	35.5	31.3	27.2	25.1	23.0	20.9	18.8	17.4	17.4
15°	43.9	42.5	37.6	32.7	27.9	25.1	22.3	20.2	19.5	18.8	18.8
17.5°	55.0	52.9	46.0	38.3	32.0	27.9	24.4	22.3	21.6	20.9	20.9
20°	74.5	71.1	61.3	50.9	41.1	32.0	27.2	23.7	23.0	22.3	22.3
22.5°	105.9	99.6	82.9	66.9	52.2	40.4	31.3	25.1	23.0	22.3	22.3
25°	144.2	135.8	111.5	87.8	66.2	51.6	38.3	28.6	23.0	21.6	21.6
27.5°	195.1	180.4	147.7	117.7	88.5	65.5	48.1	34.1	25.1	21.6	20.9
30°	248.7	230.6	188.8	149.1	112.2	82.2	59.2	41.1	28.6	21.6	20.9
32.5°	307.2	282.8	236.9	187.4	139.3	101.7	72.5	48.1	32.7	23.0	21.6
35°	367.1	340.0	282.8	227.8	167.2	121.2	86.4	55.7	35.5	24.4	23.0
37.5°	427.7	397.1	335.1	264.0	194.4	141.4	100.3	64.1	38.3	25.8	24.4
40°	488.4	451.4	383.2	298.2	220.8	161.6	113.6	71.1	40.4	27.9	27.2
42.5°	535.7	498.1	422.9	326.7	248.7	179.7	126.8	76.6	42.5	31.3	30.0
45°	578.9	539.2	456.3	352.5	270.3	201.3	142.1	85.7	46.7	35.5	34.1
47.5°	622.8	583.8	491.1	377.6	291.2	222.9	160.2	95.4	57.8	46.0	45.3
50°	661.1	617.9	528.8	411.7	317.7	243.1	179.0	107.3	68.3	66.9	67.6
52.5°	698.0	654.9	560.8	436.8	335.8	267.5	197.2	112.2	77.3	78.7	80.1
55°	739.2	689.0	586.6	456.3	346.2	283.5	207.6	116.3	85.7	80.1	78.7
57.5°	767.0	709.2	607.5	477.9	357.4	293.3	208.3	121.2	92.7	77.3	75.2
60°	785.8	720.3	618.6	489.7	372.7	302.3	206.2	121.9	96.8	71.1	64.8
62.5°	798.4	735.0	628.4	492.5	384.6	309.3	205.5	119.1	95.4	63.4	58.5
65°	803.9	747.5	637.4	493.9	386.6	314.2	205.5	117.7	93.4	55.7	50.2
67.5°	803.9	751.7	640.9	496.7	385.3	315.6	199.2	121.9	90.6	52.9	46.0
70°	799.8	749.6	636.0	496.0	388.0	314.2	192.3	121.9	86.4	52.9	43.9
71°	*794.2*	*745.4*	*632.6*	*495.3*	*388.7*	*312.8*	*189.5*	*121.2*	*84.3*	*51.6*	*44.6*
72.5°	786.5	739.2	626.3	493.9	386.6	308.6	183.9	121.9	82.2	50.9	45.3
75°	778.2	734.3	621.4	488.4	385.9	302.3	174.2	119.8	81.5	51.6	46.7
77.5°	775.4	735.0	618.6	487.0	385.9	298.9	167.2	118.4	80.1	52.2	49.5
80°	769.1	733.6	613.1	483.5	384.6	292.6	165.1	118.4	78.7	52.9	50.9
82.5°	762.8	730.1	608.2	480.0	382.5	284.2	163.0	117.7	77.3	55.0	53.6
85°	757.3	729.4	608.2	477.9	381.8	279.4	162.3	117.0	76.6	57.1	55.7
87.5°	757.3	732.9	614.4	483.5	388.0	279.4	165.1	118.4	77.3	59.9	59.2
90°	743.3	717.6	604.7	480.0	390.1	280.1	167.9	121.9	80.1	62.7	61.3
92.5°	739.2	710.6	601.9	483.5	392.9	280.1	171.4	125.4	82.2	64.1	62.7
95°	693.2	661.1	566.4	459.1	375.5	272.4	172.8	124.7	83.6	64.8	64.1
97.5°	629.1	594.2	505.1	408.2	332.3	244.5	157.4	117.0	82.9	66.9	65.5
100°	650.7	609.6	516.2	415.2	326.7	239.6	154.7	113.6	85.0	69.7	68.3
102.5°	710.6	666.0	567.8	459.8	356.0	264.7	172.8	120.5	89.2	73.1	71.1
105°	675.1	625.6	548.3	445.2	346.9	264.7	173.5	122.6	93.4	75.9	74.5
107.5°	596.3	550.4	482.8	396.4	317.7	244.5	164.4	119.1	96.8	79.4	77.3

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

Scaled Data Report

REPORT NUMBER: P1045960
CATALOG NUMBER: FFX-CLB-70-722-U-PG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	551.1	501.6	439.6	361.6	295.4	227.1	158.1	117.0	98.9	83.6	80.8
112.5°	503.0	460.5	400.6	332.3	275.2	209.7	154.0	116.3	100.3	87.8	85.0
115°	475.8	431.9	380.4	314.2	261.9	204.1	152.6	119.8	105.2	93.4	90.6
117.5°	452.1	415.9	369.9	300.3	252.9	202.0	155.4	124.0	108.7	98.2	94.7
120°	427.7	394.3	352.5	289.1	245.2	195.1	156.1	126.1	111.5	102.4	100.3
122.5°	413.1	375.5	334.4	279.4	236.2	190.2	155.4	128.9	112.2	104.5	104.5
125°	385.9	356.0	314.9	266.8	222.9	187.4	155.4	127.5	114.3	107.3	105.9
127.5°	356.0	336.5	295.4	252.9	213.9	180.4	151.2	127.5	113.6	107.3	107.3
130°	328.1	310.7	277.3	234.1	205.5	170.7	144.9	121.2	109.4	105.2	105.2
132.5°	296.8	285.6	254.3	216.0	188.8	158.8	136.5	112.2	102.4	98.9	98.9
135°	268.2	257.8	228.5	196.5	172.1	147.7	126.8	105.9	94.0	89.9	89.9
137.5°	241.7	232.0	206.2	179.0	156.7	136.5	117.0	99.6	87.8	82.9	83.6
140°	214.6	202.7	185.3	162.3	142.1	126.1	107.3	93.4	82.2	78.0	77.3
142.5°	190.2	181.1	165.1	145.6	128.2	115.6	98.9	87.1	78.0	73.8	73.1
145°	167.9	160.2	146.3	130.3	116.3	104.5	91.3	81.5	73.8	70.4	69.7
147.5°	144.2	139.3	128.9	116.3	104.5	94.0	85.0	75.9	71.1	66.9	66.2
150°	126.8	123.3	114.9	104.5	95.4	87.1	80.1	71.8	67.6	64.8	64.1
152.5°	112.9	109.4	102.4	94.7	87.1	80.8	74.5	69.0	64.8	62.7	62.0
155°	101.0	98.2	92.7	86.4	80.1	74.5	69.7	65.5	62.7	60.6	60.6
157.5°	92.0	89.2	85.0	79.4	74.5	69.7	66.2	62.7	61.3	59.2	59.2
160°	84.3	82.2	78.7	73.8	69.7	66.2	63.4	60.6	59.9	58.5	58.5
162.5°	78.0	76.6	73.1	69.7	66.9	64.1	62.0	59.9	58.5	57.8	57.8
165°	73.8	72.5	70.4	67.6	64.8	62.7	61.3	59.2	58.5	58.5	57.8
167.5°	71.8	70.4	68.3	65.5	63.4	62.7	61.3	59.9	59.2	59.2	58.5
170°	69.7	69.0	67.6	65.5	63.4	62.7	62.0	60.6	60.6	59.9	59.9
172.5°	69.0	68.3	66.9	65.5	64.1	63.4	62.7	62.0	62.0	62.0	61.3
175°	68.3	68.3	66.9	65.5	64.8	64.8	64.1	63.4	63.4	63.4	63.4
177.5°	68.3	67.6	67.6	66.9	66.2	66.2	66.2	65.5	65.5	65.5	65.5
180°	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3

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

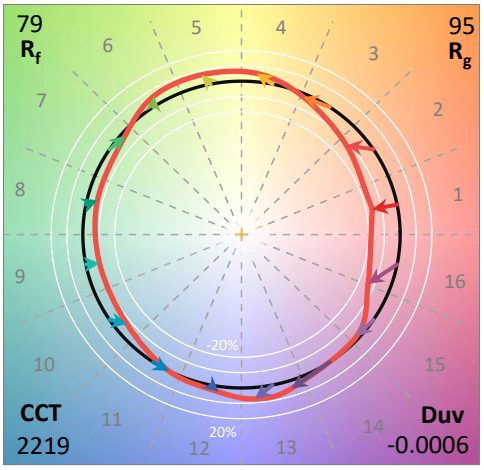
Test Information

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

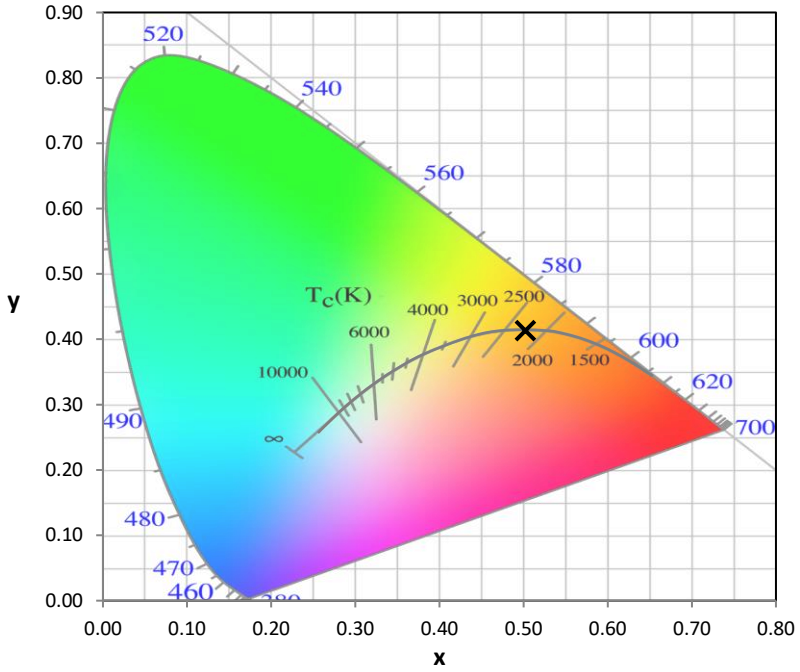
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

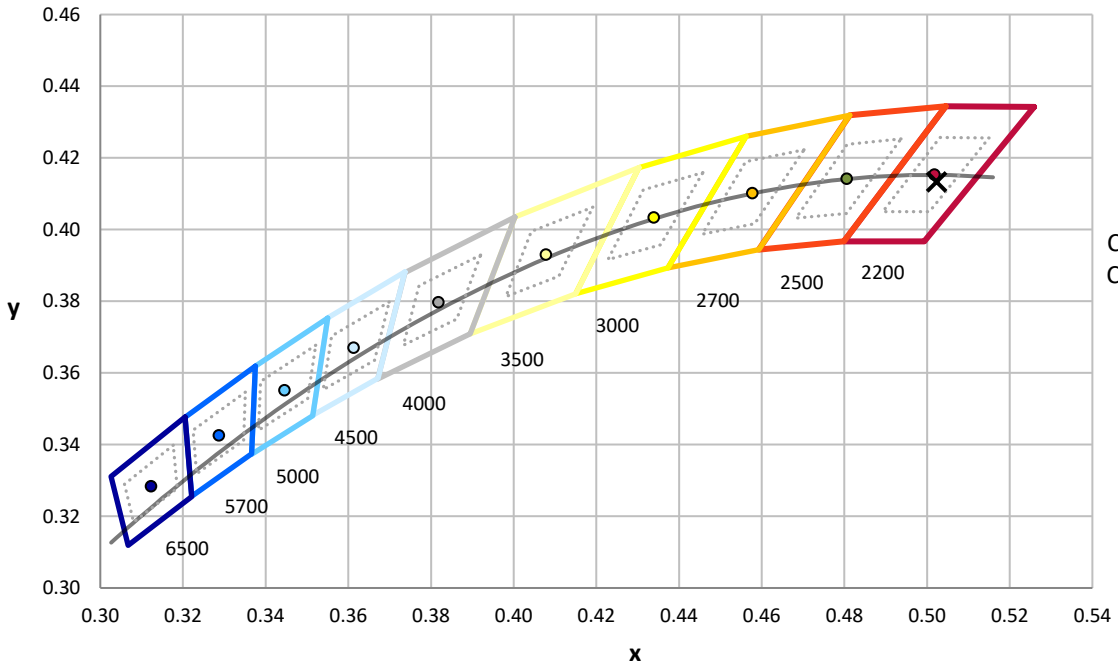
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

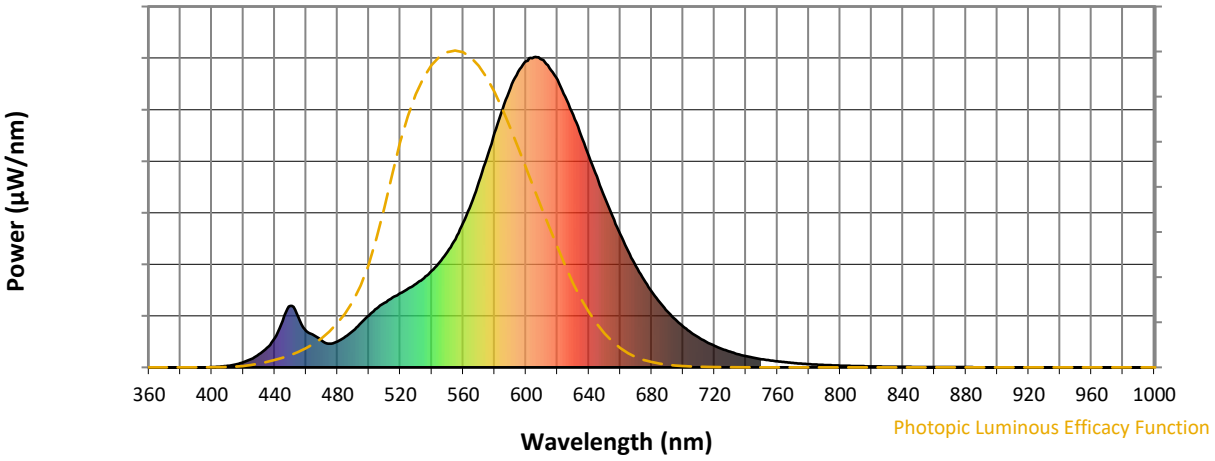


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

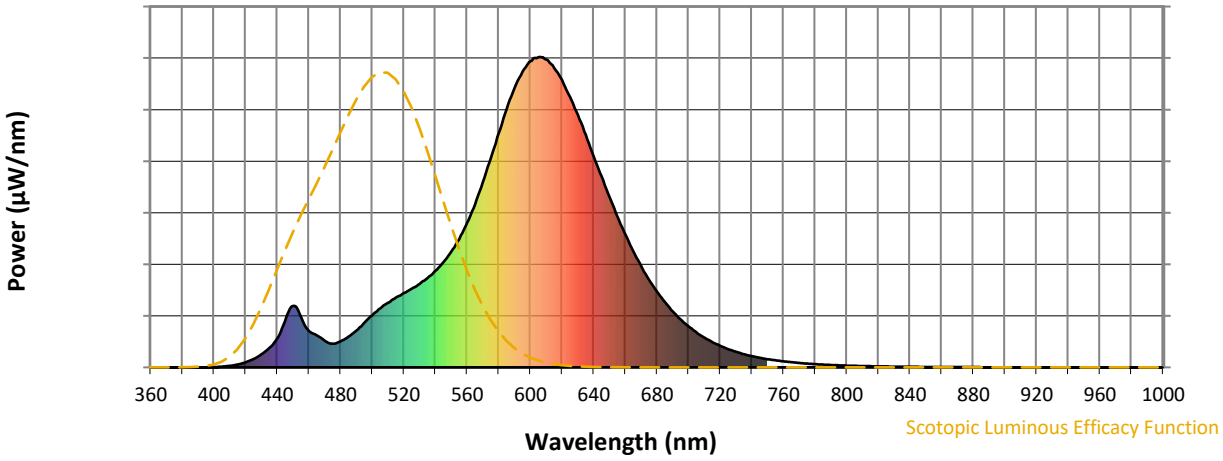


Photopic Lumens: NR

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

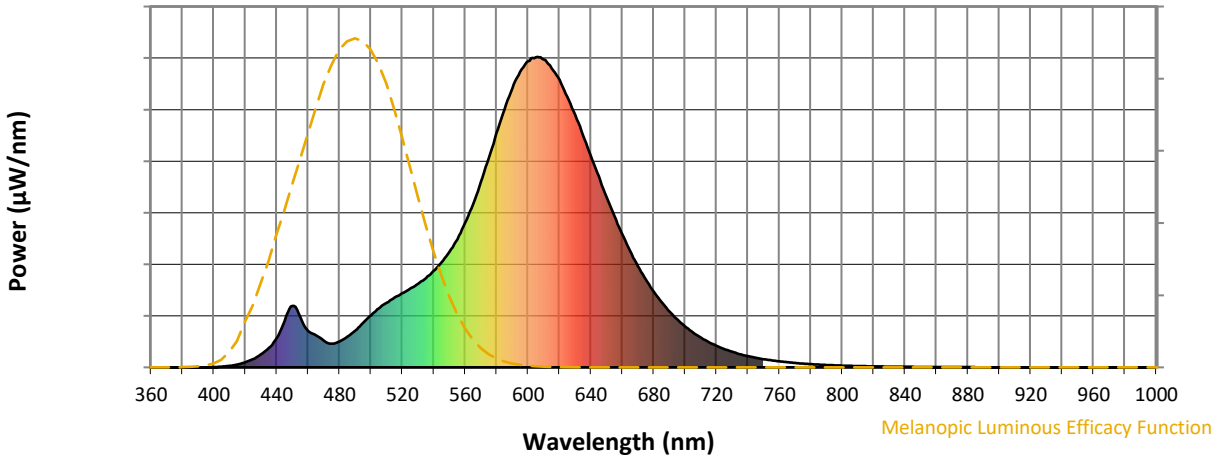


Scotopic Lumens: NR **S/P: 0.94**

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			

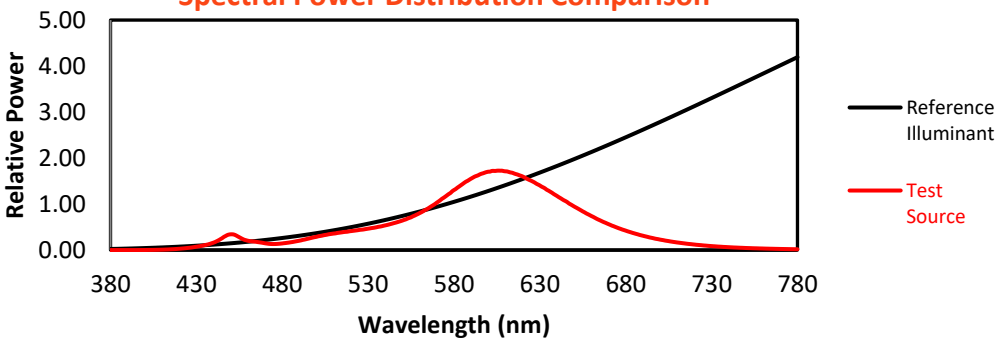
REPORT NUMBER: SP1-2501-332-2

TM-30-18

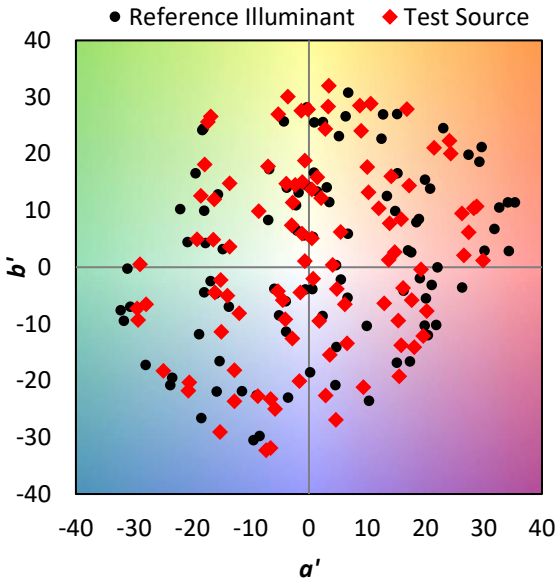
Summary

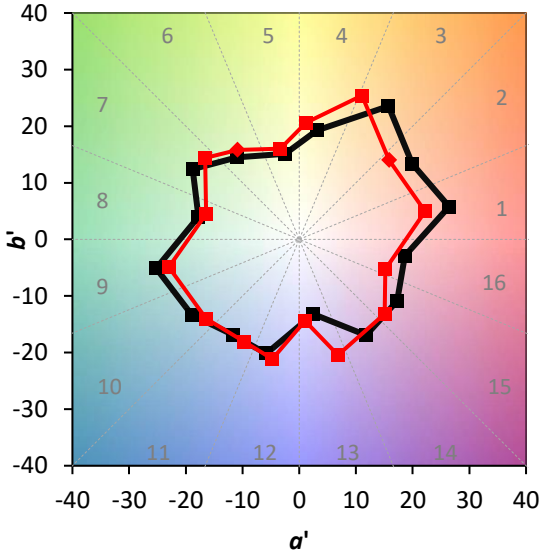
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

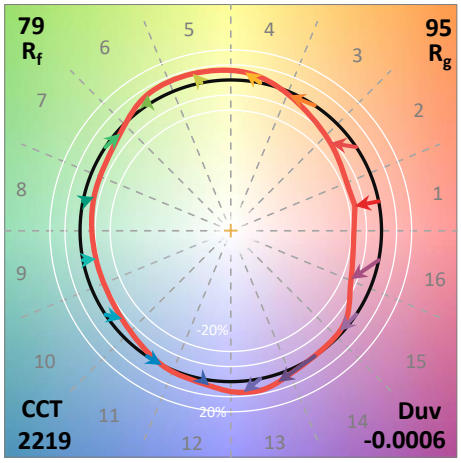
Spectral Power Distribution Comparison

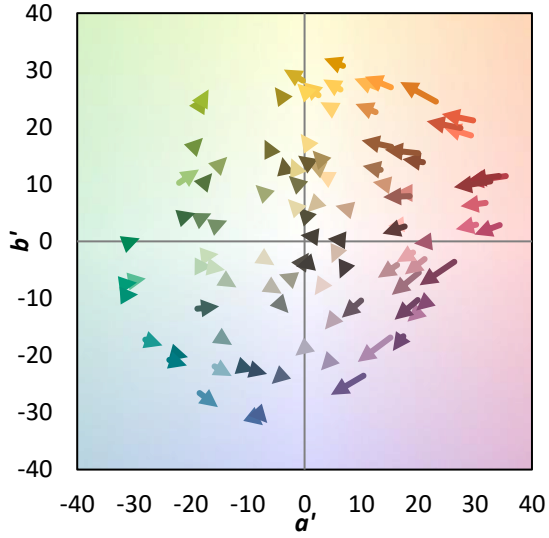


Color Vector Graphics







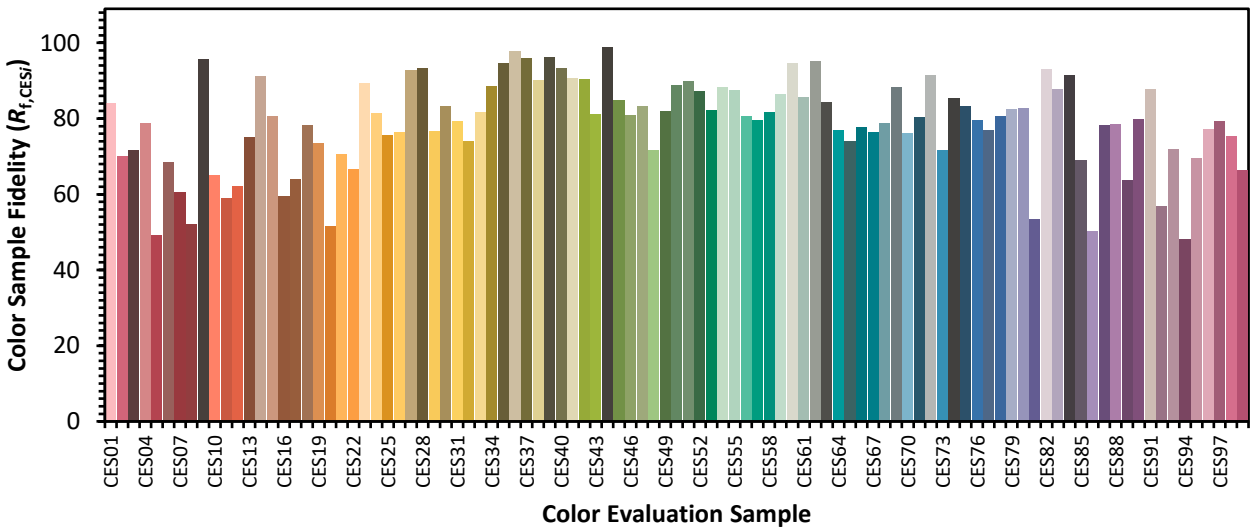


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

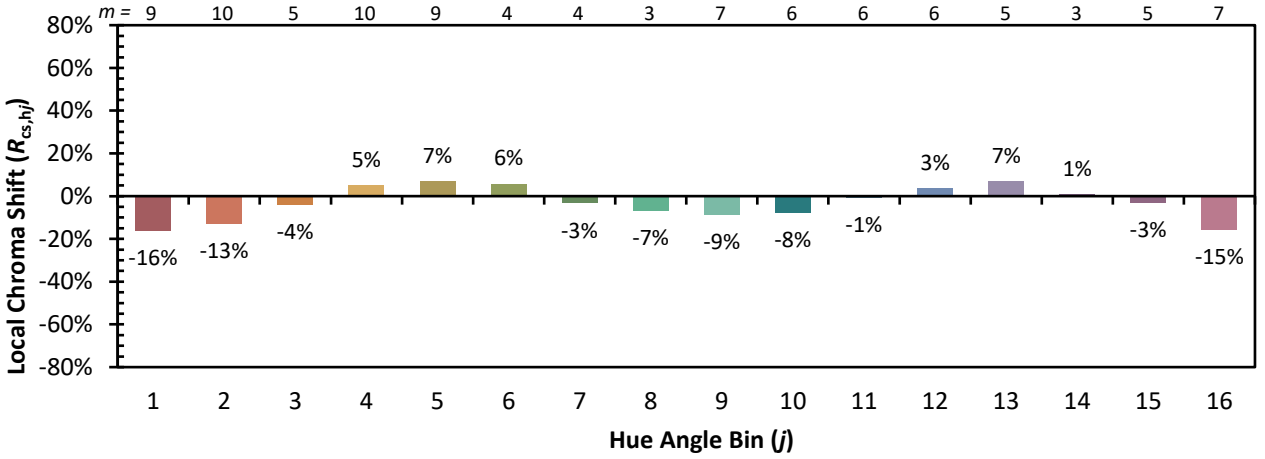
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 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	

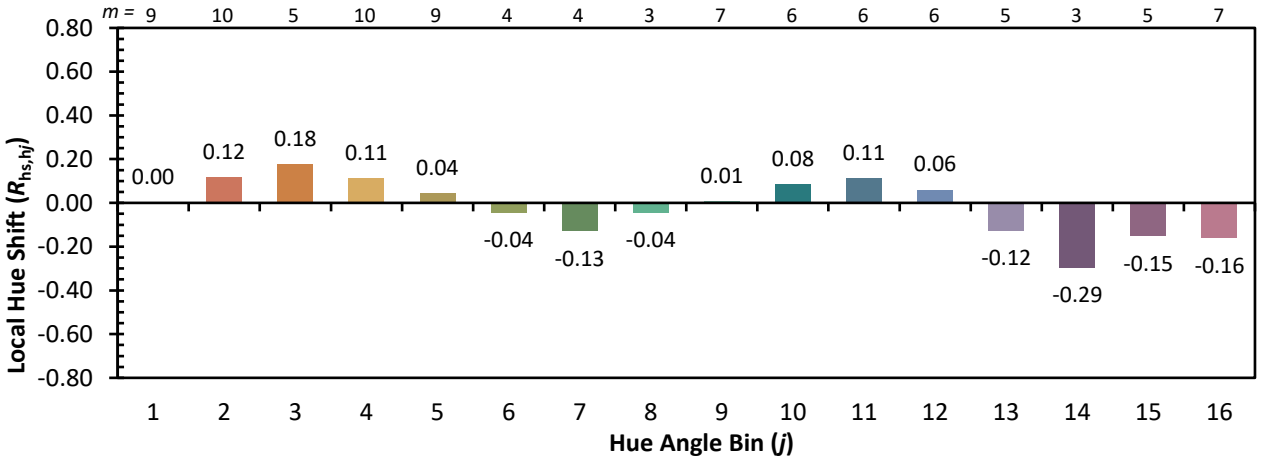


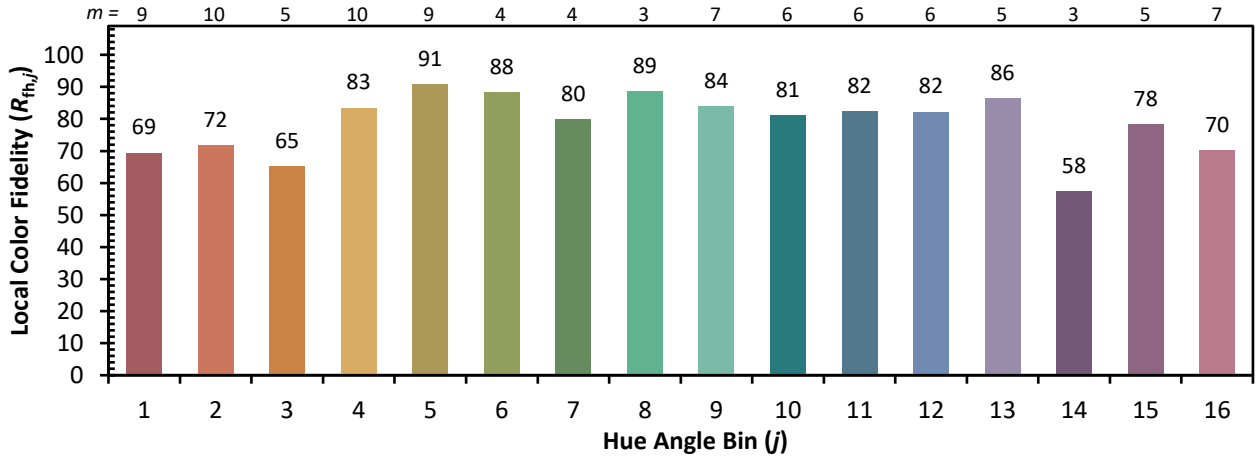
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Color Rendition by Hue-Angle Bin



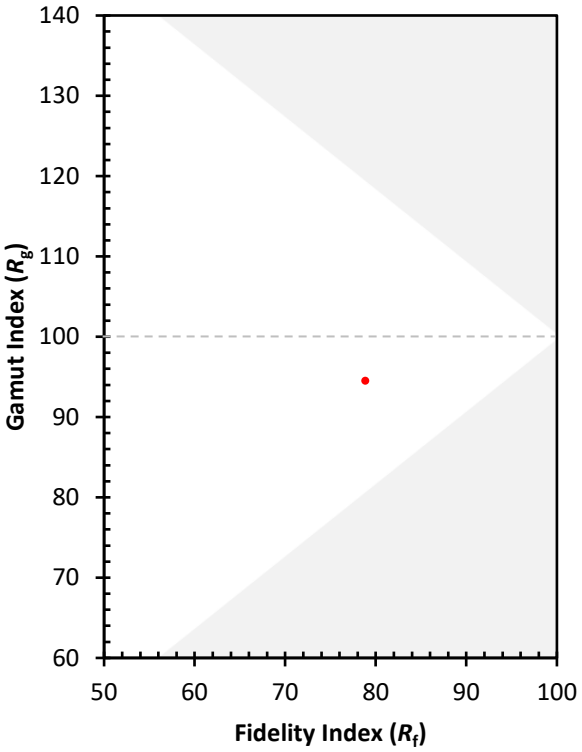


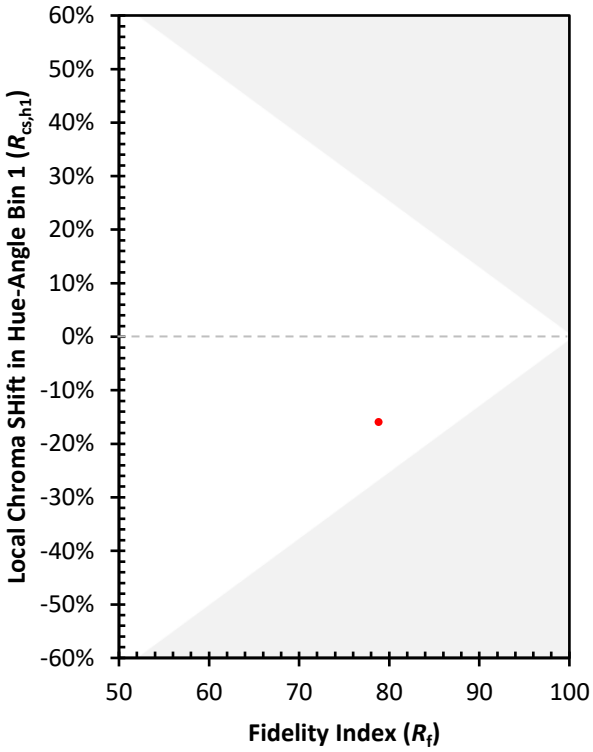


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Measure Comparisons





(END OF REPORT)