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: P1045870

Luminaire Tested: **FFX-CLB-70-722-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045870
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-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6332.4 lumens
Efficiency:	N/A
Efficacy:	88.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
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

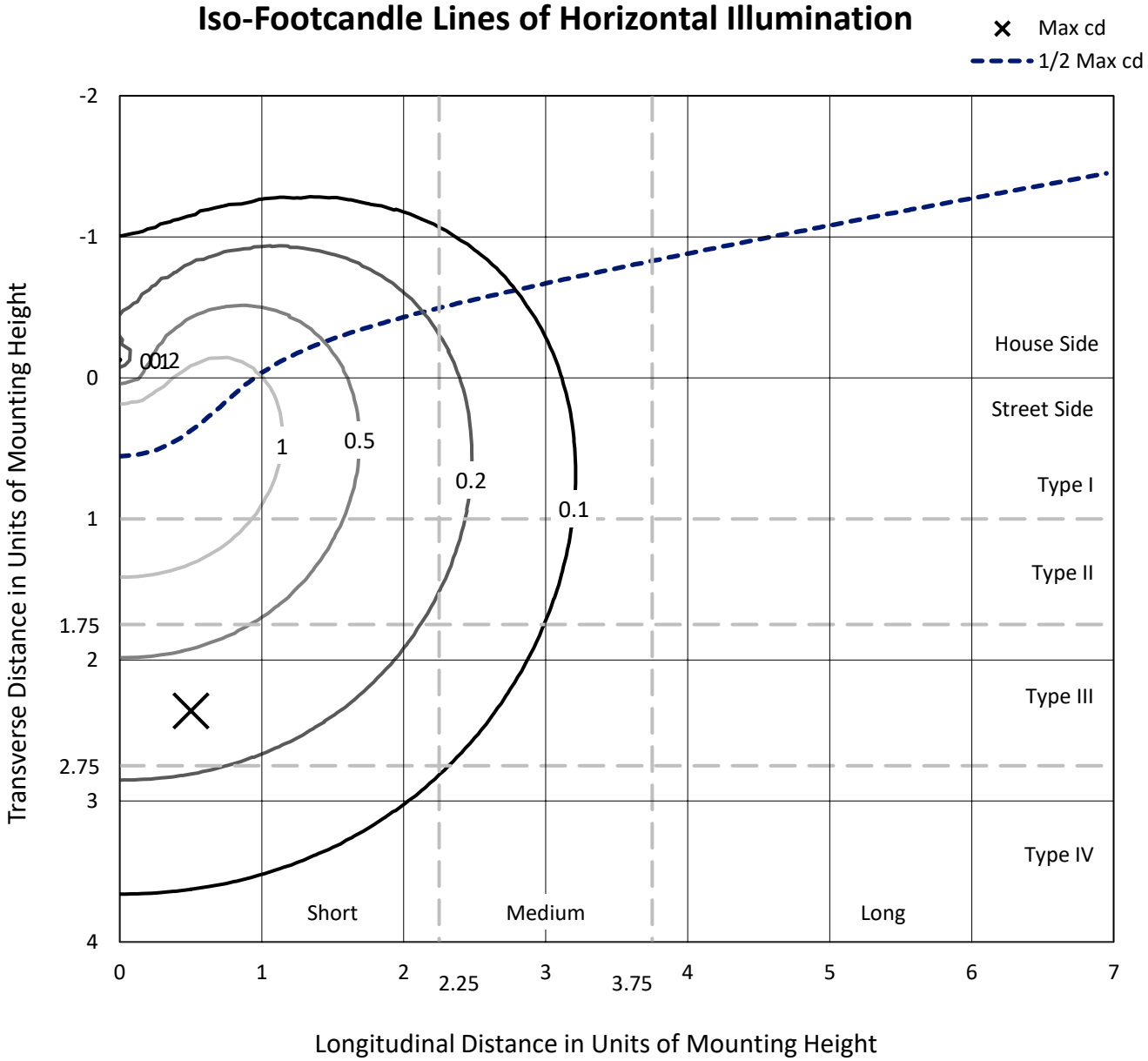


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045870
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



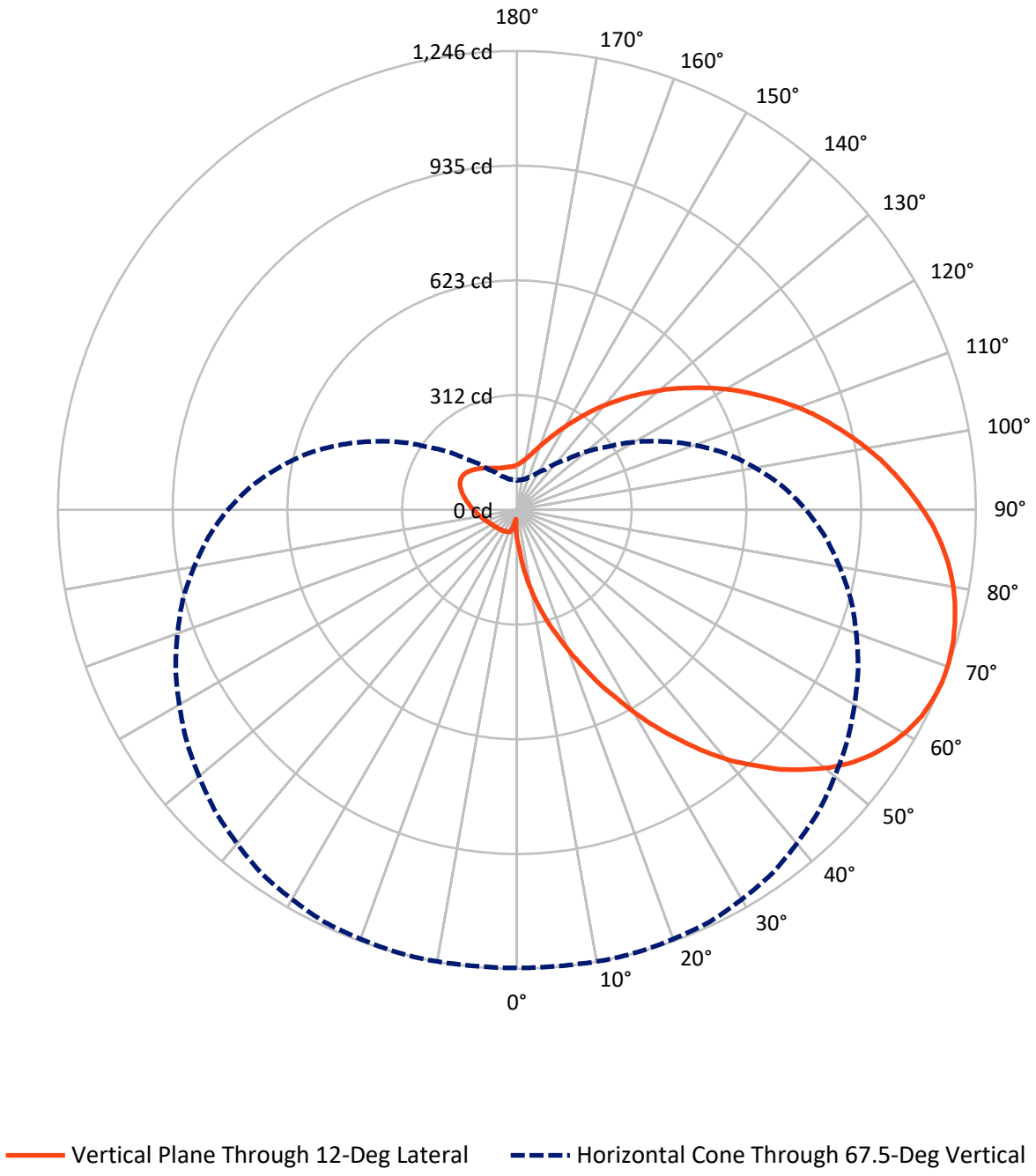
Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045870
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

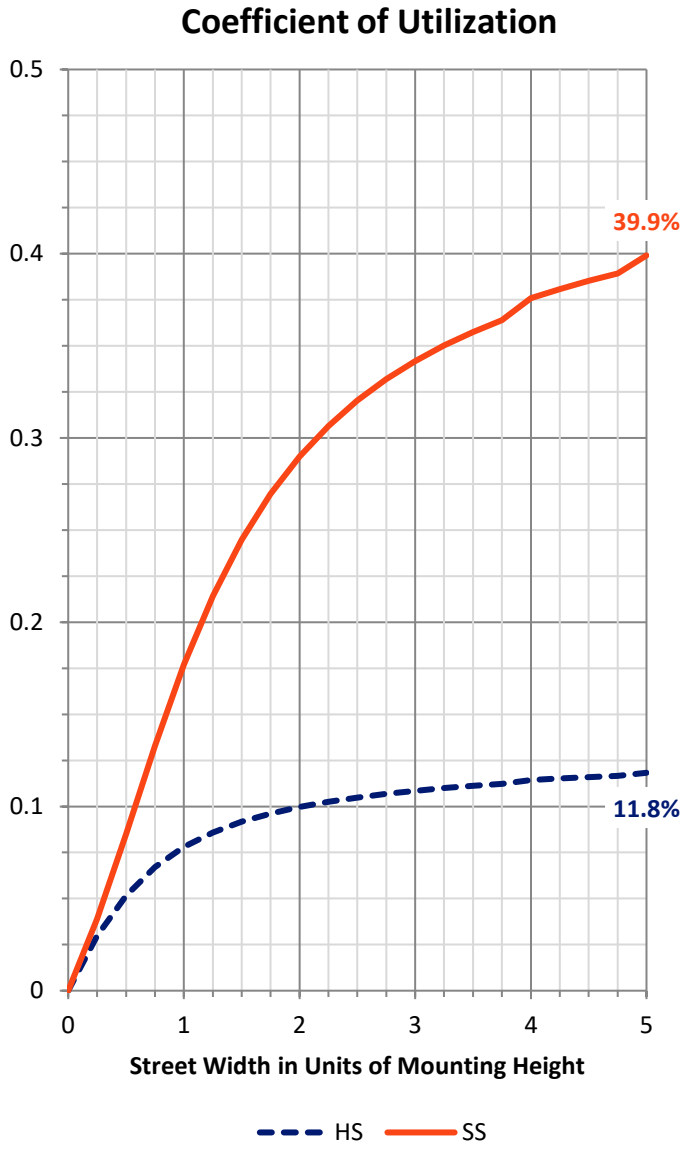
REPORT NUMBER: P1045870
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.9	788.7	1603.7
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	2881.2	1847.5	4728.7
	% Fixture	45.5	29.2	74.7
Total	Lumens	3696.1	2636.3	6332.4
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.2
10°-20°	56.4	0.9
20°-30°	146.9	2.3
30°-40°	285.2	4.5
40°-50°	447.9	7.1
50°-60°	594.4	9.4
60°-70°	692.8	10.9
70°-80°	736.0	11.6
80°-90°	726.7	11.5
90°-100°	670.0	10.6
100°-110°	584.7	9.2
110°-120°	480.7	7.6
120°-130°	364.0	5.7
130°-140°	248.6	3.9
140°-150°	152.4	2.4
150°-160°	83.6	1.3
160°-170°	40.3	0.6
170°-180°	11.9	0.2
0°-90°	3696.1	58.4
0°-180°	6332.4	100.0



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

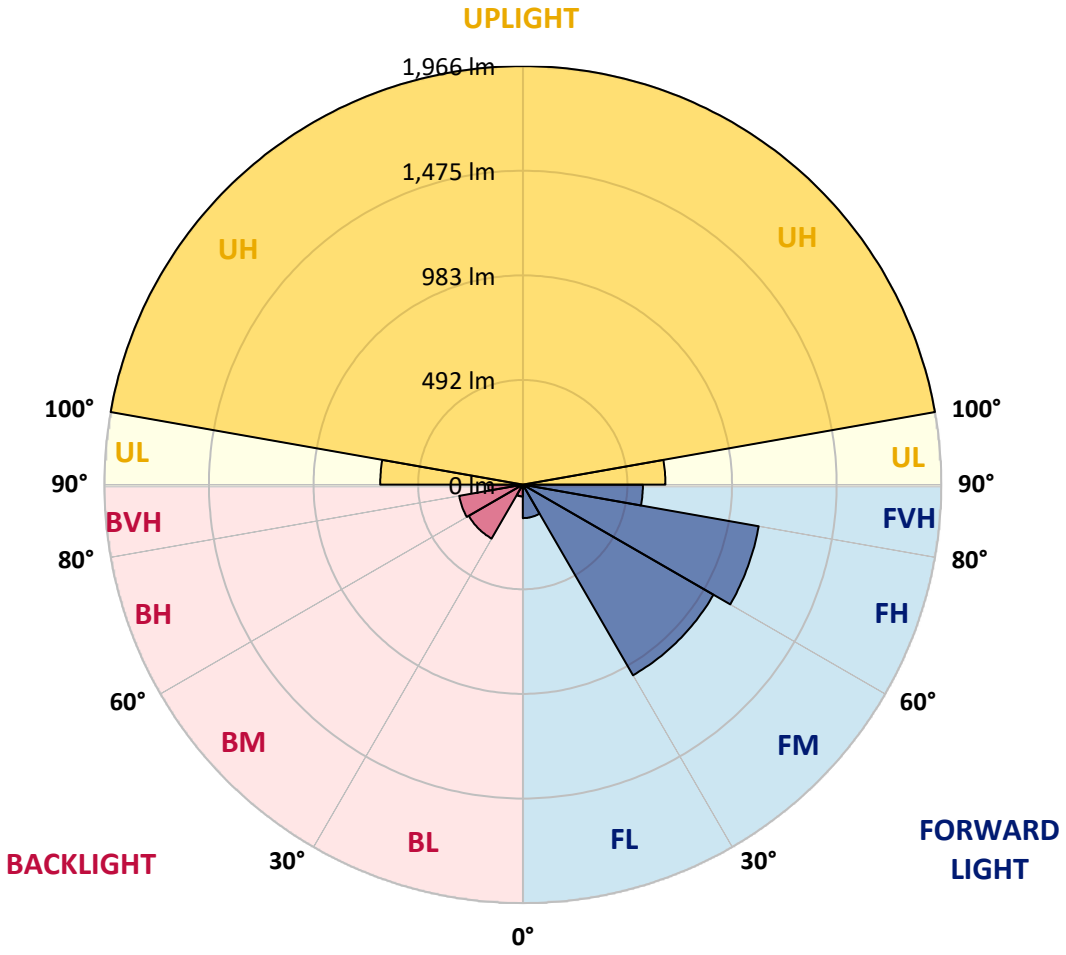
Scaled Data Report

REPORT NUMBER: P1045870
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	157.4	2.5			
FM	(30°-60°)	1034.5	16.3			
FH	(60°-80°)	1125.3	17.8			G1/1800
FVH	(80°-90°)	564.0	8.9			G4/750
BL	(0°-30°)	55.8	0.9	B0/110		
BM	(30°-60°)	293.0	4.6	B1/1000		
BH	(60°-80°)	303.5	4.8	B1/500		G1/500
BVH	(80°-90°)	162.7	2.6			G2/225
UL	(90°-100°)	670.0	10.6		U4/1000	
UH	(100°-180°)	1966.2	31.1		U5	

BUG Rating: B1-U5-G4
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045870
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	80.1	80.1	*80.1*	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
2.5°	100.3	102.4	*100.3*	103.1	101.7	101.7	98.2	94.7	89.9	84.3	79.4
5°	142.1	141.4	*138.6*	141.4	138.6	135.1	129.6	120.5	111.5	103.1	92.7
7.5°	185.3	186.0	*183.9*	183.2	176.9	172.1	163.0	154.0	142.8	130.3	117.7
10°	232.0	230.6	*227.1*	227.8	220.8	211.1	200.6	190.2	177.6	163.0	147.0
12.5°	275.2	275.2	*272.4*	273.1	265.4	254.3	245.9	232.0	216.7	199.2	179.7
15°	321.1	318.4	*317.0*	317.0	309.3	299.5	290.5	275.2	257.1	237.5	215.3
17.5°	363.6	362.9	*361.5*	362.2	355.3	346.9	332.3	317.0	295.4	271.7	248.7
20°	418.0	415.2	*413.1*	409.6	405.4	394.3	380.4	360.2	338.6	312.8	282.1
22.5°	467.4	470.9	*465.3*	462.6	457.0	447.9	427.7	408.2	382.4	352.5	319.1
25°	524.6	527.3	*525.3*	521.8	514.1	501.6	482.8	461.2	430.5	396.4	356.7
27.5°	584.5	586.6	*581.0*	582.4	569.1	557.3	538.5	512.0	482.8	442.4	400.6
30°	643.7	647.9	*645.8*	640.9	629.7	619.3	597.0	569.1	535.7	491.1	443.1
32.5°	713.3	708.5	*709.2*	703.6	696.6	679.9	660.4	629.1	590.0	542.7	487.6
35°	778.1	776.0	*770.5*	773.3	761.4	746.1	721.7	688.3	645.8	593.5	532.9
37.5°	836.0	838.0	*834.6*	832.5	824.8	807.4	778.8	744.7	695.9	640.9	574.7
40°	895.2	896.6	*895.9*	895.9	885.4	865.9	836.6	798.3	748.2	689.0	617.2
42.5°	951.6	953.0	*949.5*	950.2	941.8	921.6	890.3	849.9	794.2	732.2	654.1
45°	1005.9	1005.9	*1005.9*	1005.2	993.4	974.6	942.5	896.6	840.8	770.5	688.3
47.5°	1056.1	1054.7	*1054.0*	1054.0	1046.3	1024.0	989.9	939.7	879.1	805.3	721.7
50°	1100.7	1101.4	*1100.7*	1099.3	1087.4	1069.3	1031.0	978.8	914.7	838.7	749.6
52.5°	1139.0	1139.7	*1140.4*	1136.9	1129.2	1107.6	1065.1	1009.4	944.6	865.2	772.6
55°	1169.6	1171.0	*1172.4*	1171.0	1163.4	1137.6	1095.1	1038.7	969.0	887.5	792.8
57.5°	1198.2	1197.5	*1198.2*	1196.8	1188.4	1163.4	1119.5	1058.9	988.5	905.6	808.1
60°	1217.7	1218.4	*1218.4*	1218.4	1208.6	1182.9	1136.2	1074.2	1002.4	919.5	821.3
62.5°	1230.9	1231.6	*1233.7*	1232.3	1223.3	1196.1	1148.0	1085.3	1012.9	928.6	830.4
65°	1240.0	1240.7	*1242.1*	1240.7	1232.3	1204.5	1155.7	1092.3	1019.9	935.6	836.6
67.5°	*1244.2*	*1244.2*	*1246.3*	*1245.6*	*1235.8*	*1207.3*	*1158.5*	*1095.1*	*1022.6*	*939.1*	*840.8*
70°	1242.1	1242.8	*1244.2*	1243.5	1233.7	1205.2	1156.4	1093.7	1021.9	939.1	841.5
72.5°	1237.2	1237.2	*1238.6*	1237.2	1228.2	1199.6	1151.5	1089.5	1018.5	937.7	840.8
75°	1227.5	1228.2	*1228.8*	1228.2	1218.4	1190.5	1143.2	1081.9	1012.9	932.8	838.0
77.5°	1215.6	1216.3	*1216.3*	1216.3	1205.9	1178.0	1132.0	1072.1	1005.2	927.2	833.2
80°	1198.2	1198.9	*1200.3*	1198.9	1188.4	1163.4	1117.4	1060.3	995.5	918.2	826.9
82.5°	1178.7	1178.0	*1180.1*	1179.4	1168.9	1143.9	1098.6	1044.2	980.8	907.7	817.8
85°	1154.3	1154.3	*1155.7*	1154.3	1145.3	1118.8	1076.3	1024.7	964.1	892.4	806.7
87.5°	1127.1	1127.1	*1128.5*	1125.7	1115.3	1092.3	1051.9	1001.7	946.0	877.1	794.2
90°	1095.1	1096.5	*1096.5*	1094.4	1083.9	1061.7	1024.7	976.7	922.3	858.2	779.5
92.5°	1064.4	1064.4	*1063.1*	1063.1	1051.9	1029.6	995.5	951.6	900.7	839.4	763.5
95°	1031.7	1031.7	*1029.6*	1028.2	1017.1	998.3	965.5	925.1	876.4	819.9	747.5
97.5°	996.9	996.2	*994.8*	993.4	982.2	964.1	934.9	895.9	851.3	797.6	730.1
100°	961.3	962.0	*957.2*	956.5	945.3	930.0	902.1	865.9	824.8	774.6	711.3
102.5°	922.3	923.7	*919.5*	918.8	907.7	891.0	868.7	836.0	799.0	753.1	692.4
105°	887.5	884.0	*881.9*	880.5	870.8	855.5	831.8	806.0	771.2	728.0	671.5
107.5°	847.8	848.5	*844.3*	841.5	831.8	819.2	798.3	774.6	744.0	702.9	651.3
110°	808.1	806.7	*804.6*	803.2	792.1	780.9	762.8	743.3	713.3	677.8	629.7

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

Scaled Data Report

REPORT NUMBER: P1045870
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	767.0	767.7	*764.2*	762.1	754.4	742.6	729.4	710.6	684.8	651.3	606.1
115°	728.7	727.3	*724.5*	723.1	714.7	705.7	692.4	678.5	655.5	623.5	582.4
117.5°	689.7	686.9	*686.2*	684.1	677.8	668.8	658.3	646.5	624.2	596.3	557.3
120°	649.3	649.3	*647.9*	646.5	638.1	630.4	624.2	611.6	592.8	566.4	532.9
122.5°	611.6	610.9	*608.2*	606.1	601.9	594.9	587.3	577.5	560.8	537.1	505.1
125°	570.5	571.9	*569.8*	569.1	562.2	558.7	551.7	545.5	528.0	506.4	477.9
127.5°	536.4	534.3	*534.3*	530.8	527.3	523.9	518.3	509.9	498.1	475.8	449.3
130°	500.2	498.8	*496.7*	496.7	492.5	487.6	484.2	477.2	464.0	445.8	420.8
132.5°	464.0	462.6	*461.2*	459.1	456.3	455.6	452.1	444.4	431.9	415.9	394.3
135°	429.8	429.1	*428.4*	428.4	424.2	422.2	418.0	411.7	403.3	388.7	367.8
137.5°	397.8	395.7	*394.3*	394.3	392.9	389.4	385.9	381.1	372.0	360.2	341.3
140°	364.3	365.7	*365.7*	365.0	362.2	360.2	356.0	351.8	342.7	333.0	317.0
142.5°	336.5	335.8	*334.4*	333.7	332.3	329.5	327.4	322.5	317.0	306.5	292.6
145°	306.5	306.5	*305.8*	306.5	303.7	303.0	300.2	296.1	289.8	280.7	268.9
147.5°	280.0	280.0	*279.3*	280.0	278.0	275.9	273.8	271.0	265.4	258.4	248.0
150°	255.7	256.4	*255.0*	255.0	254.3	252.2	250.8	246.6	242.4	236.9	227.8
152.5°	233.4	234.1	*233.4*	232.7	232.0	230.6	228.5	225.7	221.5	216.7	209.0
155°	214.6	213.9	*213.9*	213.9	213.2	211.1	211.1	206.9	202.7	199.2	191.6
157.5°	196.4	196.4	*196.4*	196.4	195.1	194.4	193.0	189.5	187.4	182.5	176.9
160°	181.8	181.1	*181.1*	181.1	179.7	179.0	176.9	175.5	172.8	168.6	164.4
162.5°	167.2	167.9	*167.9*	167.9	166.5	165.8	164.4	163.0	160.9	156.7	154.0
165°	156.0	156.0	*156.0*	155.3	154.7	154.7	152.6	151.9	149.8	147.0	144.9
167.5°	147.0	147.0	*146.3*	147.0	145.6	144.2	143.5	142.1	140.7	139.3	137.2
170°	139.3	139.3	*139.3*	139.3	138.6	137.9	136.5	135.8	134.4	133.1	131.0
172.5°	133.1	133.1	*133.1*	133.1	132.4	131.7	130.3	129.6	128.9	127.5	126.1
175°	128.2	128.2	*128.2*	128.2	127.5	126.8	125.4	125.4	124.7	124.0	122.6
177.5°	124.7	124.7	*124.0*	124.0	123.3	122.6	122.6	121.9	121.9	121.2	120.5
180°	120.5	120.5	*120.5*	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5

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

Scaled Data Report

REPORT NUMBER: P1045870
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
2.5°	76.6	73.8	69.0	64.8	59.9	56.4	52.9	52.2	52.2	53.6	53.6
5°	88.5	82.2	72.4	63.4	52.9	45.3	38.3	32.0	27.9	25.8	25.8
7.5°	110.8	105.9	91.3	78.7	66.2	54.3	43.2	33.4	26.5	21.6	20.9
10°	139.3	131.7	114.2	98.2	81.5	66.9	53.6	41.8	33.4	29.3	29.3
12.5°	170.0	159.5	138.6	119.1	99.6	80.8	65.5	53.6	45.3	41.1	39.7
15°	202.7	190.9	165.8	140.7	117.0	96.8	79.4	64.8	56.4	52.2	51.6
17.5°	233.4	220.1	191.6	161.6	134.4	110.1	89.2	73.8	63.4	58.5	57.8
20°	266.8	249.4	216.0	181.1	149.1	119.8	96.1	78.0	65.5	59.9	59.2
22.5°	300.9	280.7	241.0	200.6	162.3	128.9	101.0	80.1	66.2	59.9	59.2
25°	337.2	314.9	268.2	221.5	176.9	137.9	105.9	82.2	67.6	59.9	59.2
27.5°	375.5	350.4	296.8	243.8	191.6	147.0	110.8	85.0	68.3	60.6	59.2
30°	416.6	388.0	326.0	265.4	205.5	155.3	114.9	86.4	69.0	60.6	59.9
32.5°	457.7	422.9	358.1	286.3	220.1	163.0	119.1	88.5	69.7	61.3	60.6
35°	497.4	463.3	387.3	307.9	234.1	170.7	122.6	89.9	71.1	62.0	60.6
37.5°	537.8	500.9	415.2	328.1	246.6	176.9	125.4	91.3	71.8	62.7	61.3
40°	576.1	532.9	442.4	347.6	257.1	182.5	127.5	92.0	72.4	63.4	62.0
42.5°	612.3	566.4	468.1	364.3	267.5	186.7	129.6	93.3	73.1	64.1	63.4
45°	643.0	595.6	490.4	381.1	275.2	190.2	131.0	94.0	73.8	64.8	64.1
47.5°	672.9	622.1	511.3	394.3	282.8	193.7	131.7	94.7	74.5	66.2	65.5
50°	699.4	645.8	530.1	406.1	288.4	195.1	132.4	95.4	75.9	67.6	66.9
52.5°	721.7	666.0	544.8	415.9	292.6	196.4	132.4	95.4	76.6	69.0	68.3
55°	739.8	683.4	558.0	422.9	295.4	197.1	132.4	96.1	78.0	70.4	69.7
57.5°	755.1	696.6	568.4	429.1	298.2	197.1	132.4	96.8	79.4	71.8	71.1
60°	766.3	707.8	576.1	433.3	298.9	196.4	132.4	97.5	80.8	73.8	73.1
62.5°	775.3	715.4	582.4	436.1	298.9	195.1	132.4	98.2	82.2	75.9	75.2
65°	781.6	721.0	586.6	437.5	298.2	194.4	132.4	99.6	84.3	78.0	77.3
67.5°	*785.1*	*725.2*	*589.3*	*438.9*	*297.5*	*194.4*	*133.1*	*101.7*	*86.4*	*80.8*	*80.1*
70°	786.5	725.9	590.0	438.2	296.8	193.0	133.8	103.1	89.2	83.6	82.9
72.5°	786.5	726.6	590.0	438.2	295.4	193.7	134.4	105.2	92.0	86.4	85.7
75°	784.4	724.5	589.3	436.8	294.7	193.0	136.5	108.0	94.7	89.9	89.2
77.5°	780.2	721.7	587.3	434.7	294.0	193.7	137.9	110.8	98.2	93.3	93.3
80°	775.3	717.5	584.5	432.6	293.3	195.1	140.0	114.2	101.7	97.5	96.8
82.5°	767.7	711.3	579.6	429.8	291.9	195.8	142.8	117.7	105.9	101.0	101.0
85°	757.2	702.2	573.3	426.3	290.5	197.1	145.6	120.5	110.1	105.2	105.2
87.5°	746.1	692.4	565.7	422.2	289.8	198.5	149.1	124.7	113.5	109.4	108.7
90°	732.8	680.6	558.0	417.3	289.1	200.6	151.9	128.9	118.4	114.2	113.5
92.5°	718.9	668.8	549.6	413.8	288.4	202.7	156.0	133.8	123.3	119.1	118.4
95°	705.0	656.2	541.3	408.9	288.4	205.5	160.2	138.6	128.2	124.0	123.3
97.5°	689.0	642.3	531.5	404.7	288.4	209.0	165.1	143.5	133.1	128.9	128.9
100°	672.2	628.4	521.8	400.6	289.1	212.5	170.0	149.1	138.6	134.4	134.4
102.5°	655.5	613.0	512.7	397.1	290.5	217.3	176.2	155.3	144.9	140.7	140.0
105°	637.4	597.7	502.3	392.2	291.9	221.5	181.8	160.9	150.5	146.3	146.3
107.5°	619.3	581.7	491.8	388.7	293.3	225.7	188.1	167.2	156.7	151.9	151.9
110°	599.1	564.3	480.7	384.5	294.7	230.6	193.0	172.8	161.6	157.4	156.7

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

Scaled Data Report

REPORT NUMBER: P1045870
CATALOG NUMBER: FFX-CLB-70-722-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	578.2	546.9	468.8	379.0	295.4	234.8	198.5	178.3	167.2	162.3	161.6
115°	555.9	527.3	455.6	373.4	295.4	238.2	202.7	182.5	171.4	166.5	165.8
117.5°	533.6	506.4	441.0	365.7	294.7	240.3	206.2	185.3	174.2	169.3	168.6
120°	509.9	485.5	426.3	358.1	291.9	241.0	207.6	187.4	175.5	170.7	170.0
122.5°	485.5	463.3	408.9	347.6	287.7	240.3	207.6	187.4	175.5	170.0	169.3
125°	459.1	439.6	390.8	335.1	281.4	237.5	206.2	186.0	174.2	168.6	167.2
127.5°	433.3	415.9	372.0	322.5	273.8	233.4	203.4	183.2	171.4	165.8	165.1
130°	408.2	390.8	352.5	308.6	264.7	227.8	198.5	179.0	167.9	161.6	160.9
132.5°	381.8	365.7	333.0	294.0	254.3	220.8	193.7	174.9	163.0	158.1	156.7
135°	355.3	342.7	312.8	278.7	243.8	213.2	188.1	170.0	158.8	153.3	153.3
137.5°	331.6	319.1	292.6	263.3	232.7	204.1	181.1	164.4	154.0	149.1	148.4
140°	307.2	297.5	273.8	248.0	220.8	195.8	175.5	159.5	149.8	144.9	144.2
142.5°	284.2	274.5	255.7	232.0	209.0	186.7	168.6	154.0	144.9	140.7	140.0
145°	261.2	254.3	236.2	217.3	197.1	177.6	160.9	148.4	140.7	136.5	136.5
147.5°	241.0	234.8	218.7	202.7	185.3	169.3	154.7	143.5	136.5	133.1	132.4
150°	221.5	216.0	202.7	189.5	173.5	160.2	147.7	138.6	132.4	129.6	128.9
152.5°	203.4	199.2	188.1	176.9	163.7	151.9	142.1	134.4	128.9	126.1	126.1
155°	188.1	184.6	174.9	165.1	154.7	144.9	136.5	130.3	126.1	124.0	123.3
157.5°	174.9	170.7	163.0	155.3	147.0	138.6	132.4	126.8	124.0	121.9	121.9
160°	162.3	158.8	152.6	147.0	140.0	133.8	128.2	124.7	121.9	120.5	120.5
162.5°	151.9	149.1	144.2	139.3	134.4	129.6	125.4	122.6	120.5	119.1	119.1
165°	142.8	141.4	137.2	133.8	129.6	126.1	123.3	121.2	119.8	119.1	119.1
167.5°	135.8	134.4	131.7	128.9	126.1	123.3	121.2	119.8	119.1	118.4	118.4
170°	130.3	128.9	127.5	125.4	123.3	121.2	119.8	119.1	118.4	118.4	118.4
172.5°	126.1	124.7	124.0	122.6	121.2	119.8	119.1	118.4	118.4	118.4	118.4
175°	122.6	121.9	121.2	120.5	119.8	119.1	118.4	118.4	118.4	118.4	118.4
177.5°	120.5	119.8	119.8	119.1	119.1	118.4	118.4	119.1	119.1	119.1	119.8
180°	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5

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

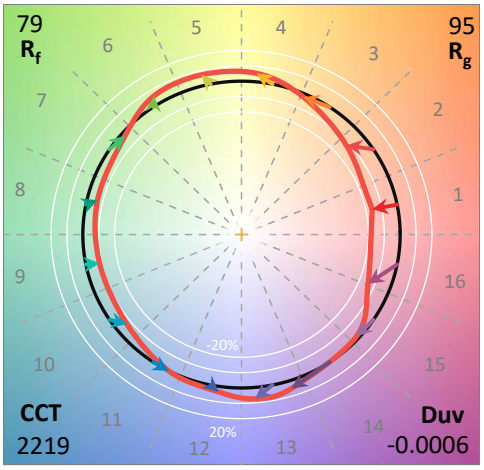
Test Information

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

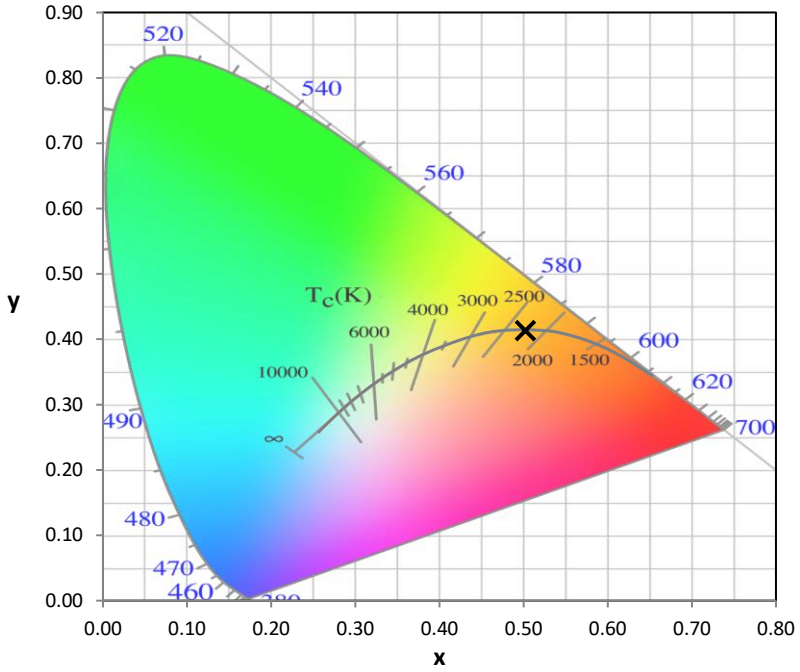
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

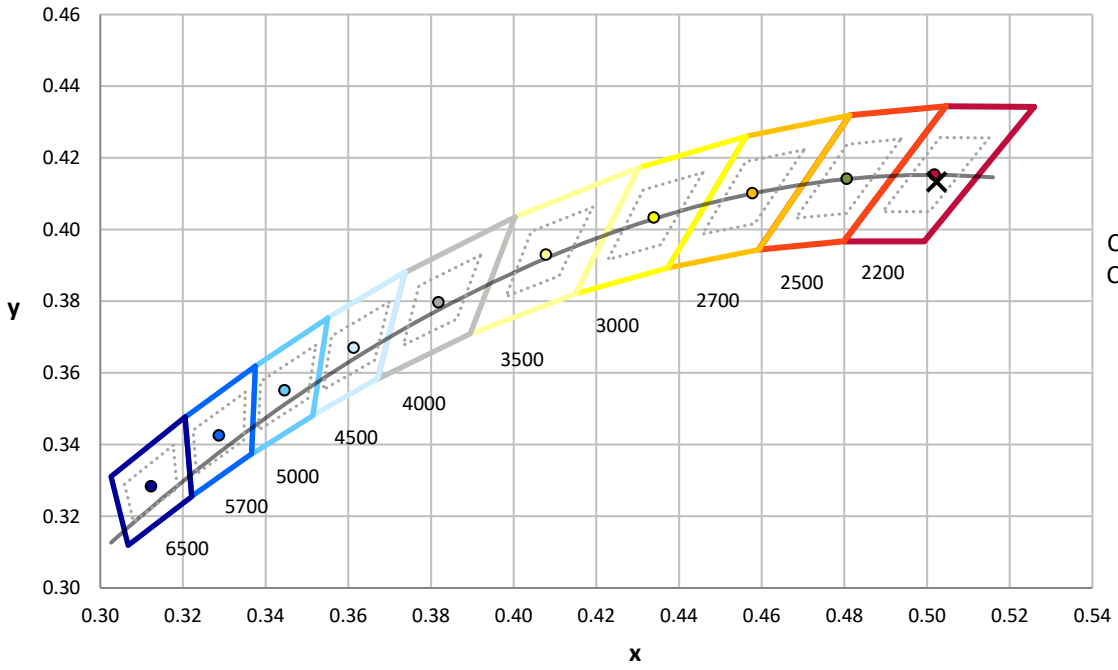
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

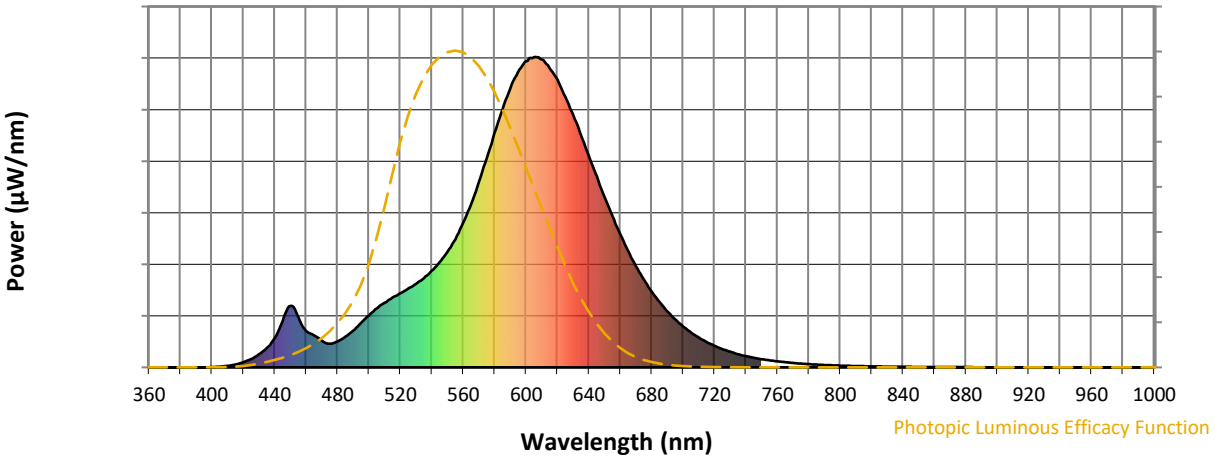


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

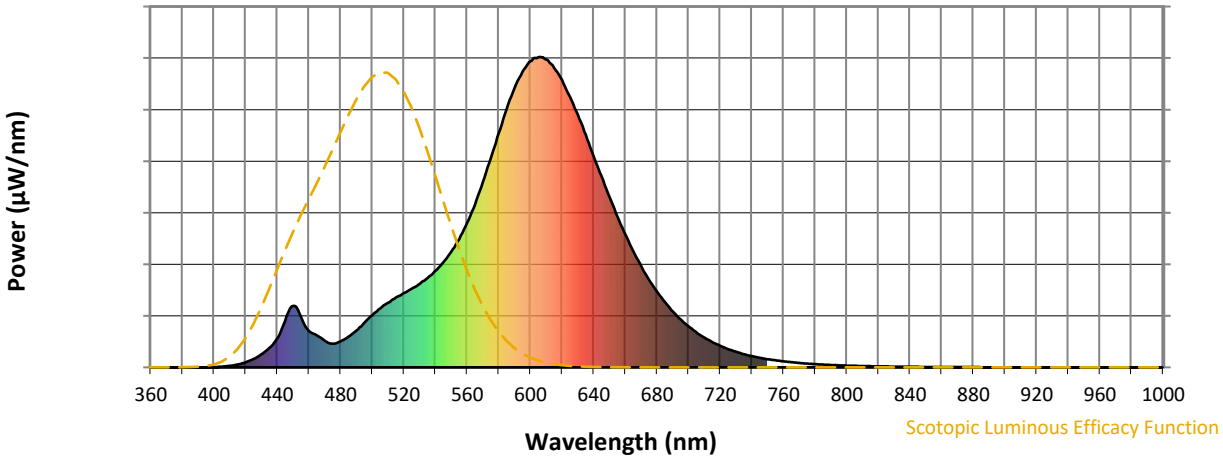


Photopic Lumens: NR

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

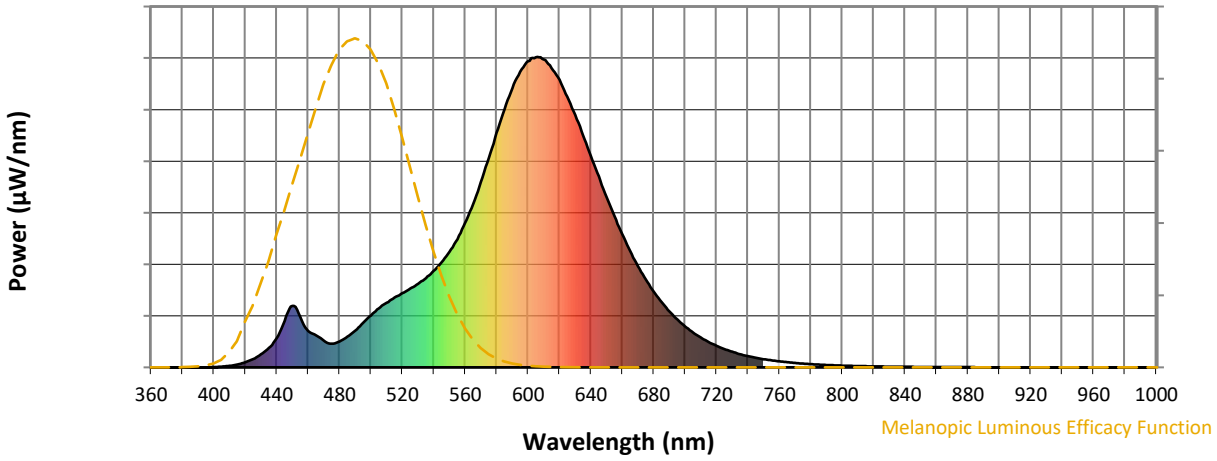


Scotopic Lumens: NR **S/P: 0.94**

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			

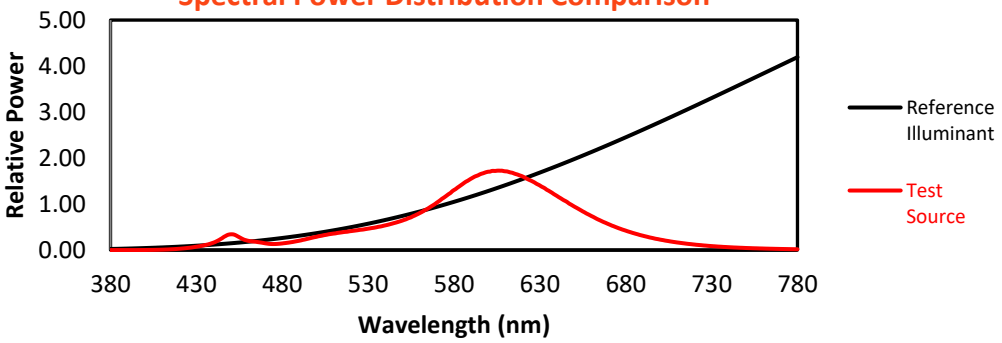
REPORT NUMBER: SP1-2501-332-2

TM-30-18

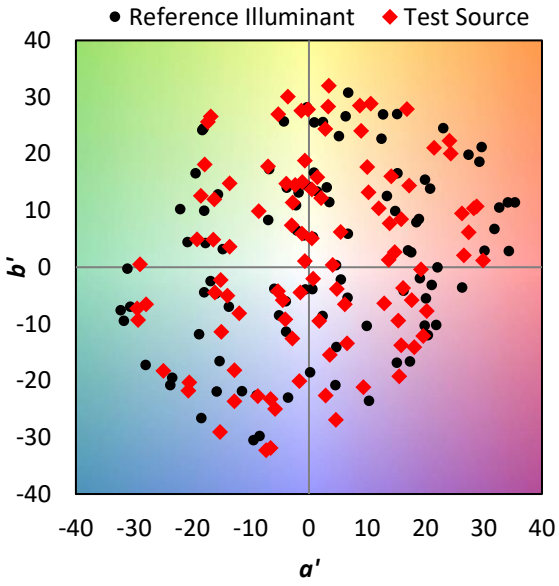
Summary

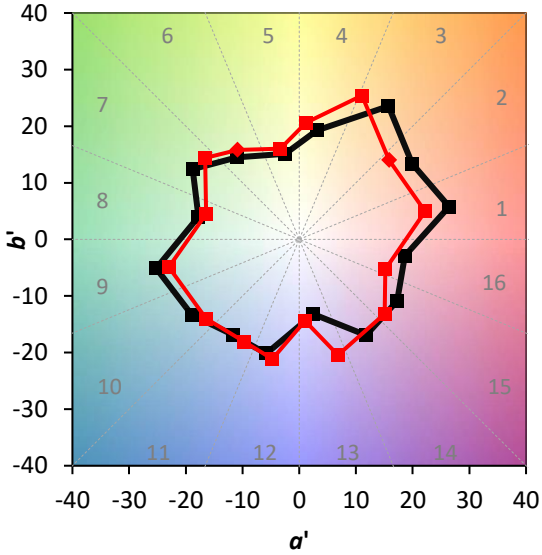
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

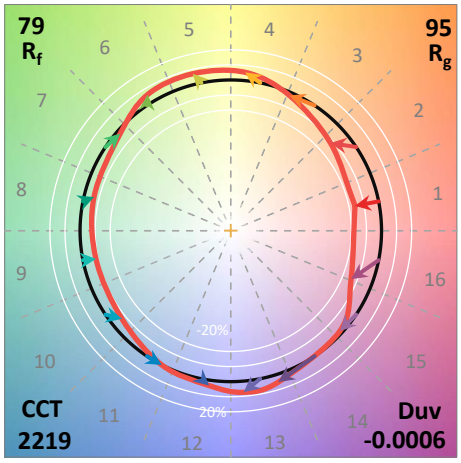
Spectral Power Distribution Comparison

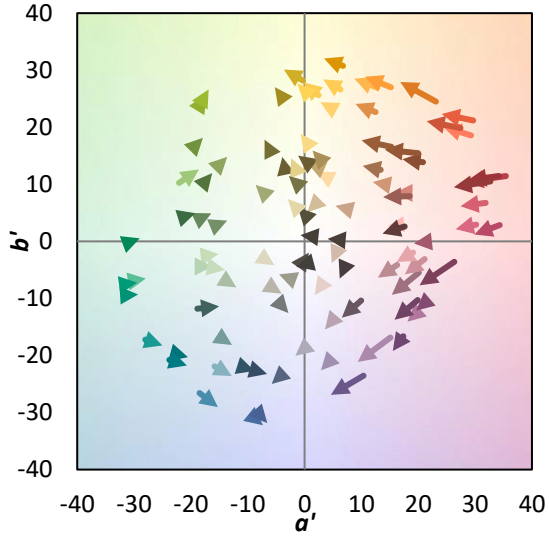


Color Vector Graphics







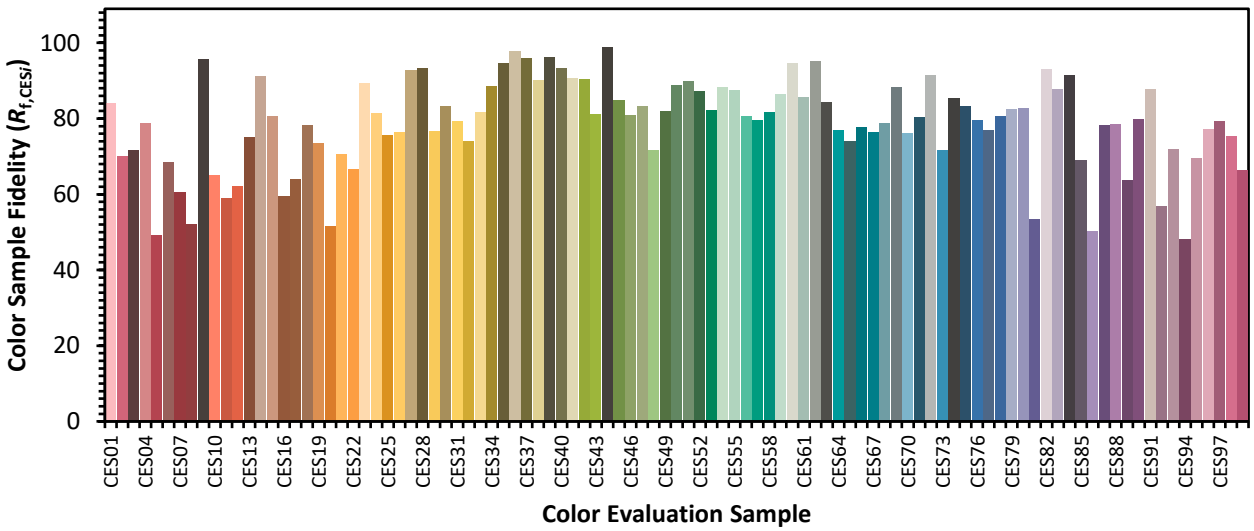


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

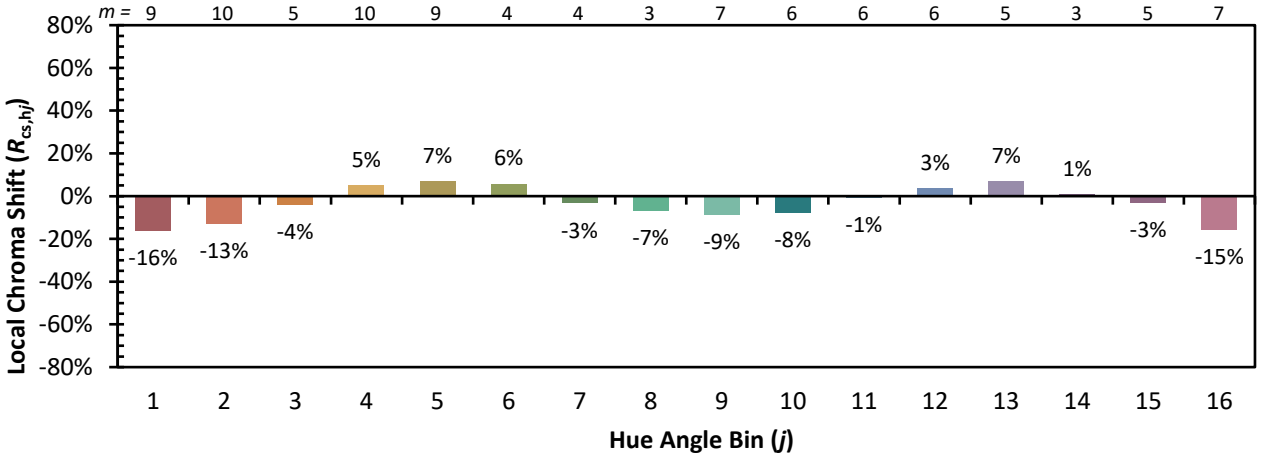
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82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

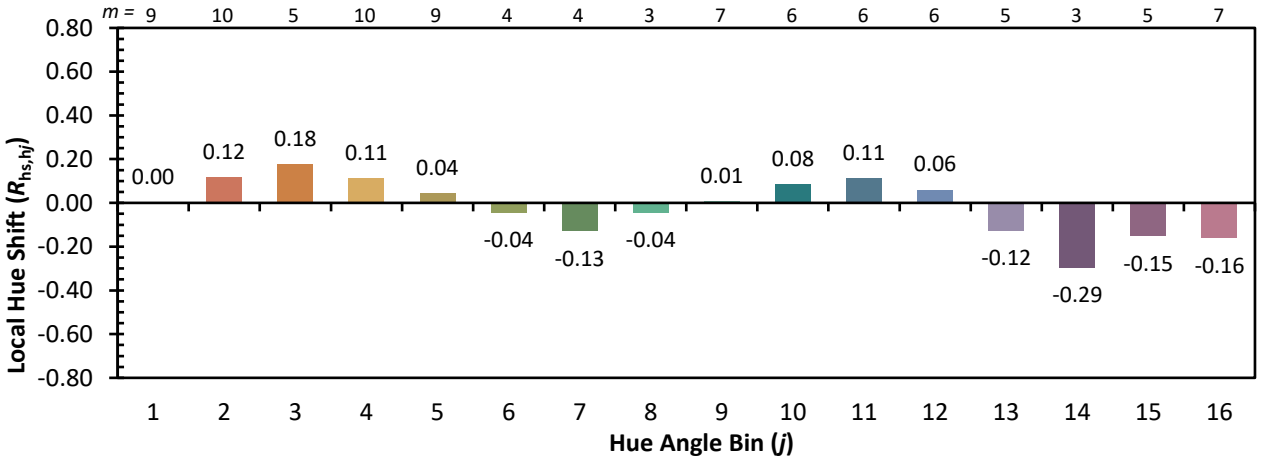


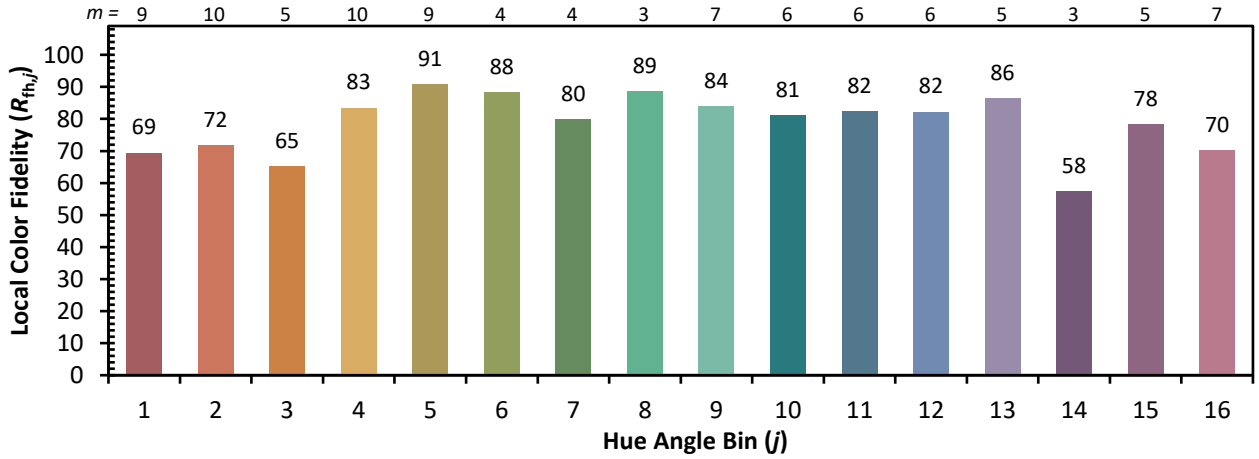
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



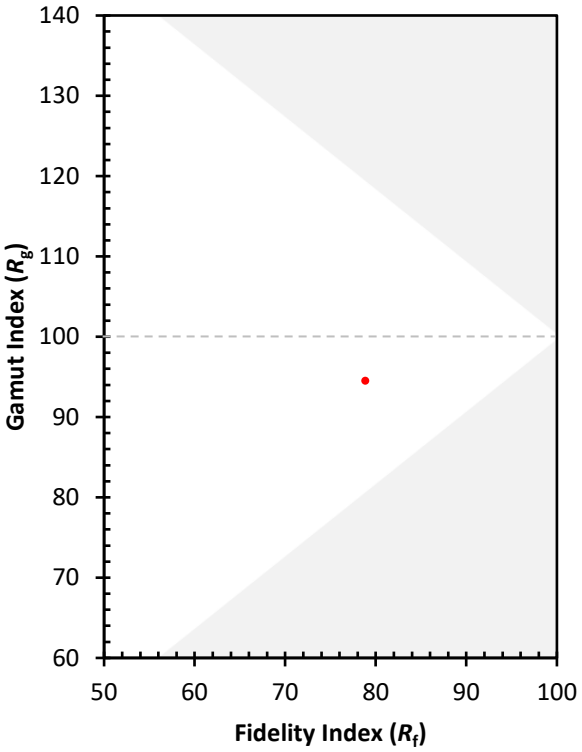


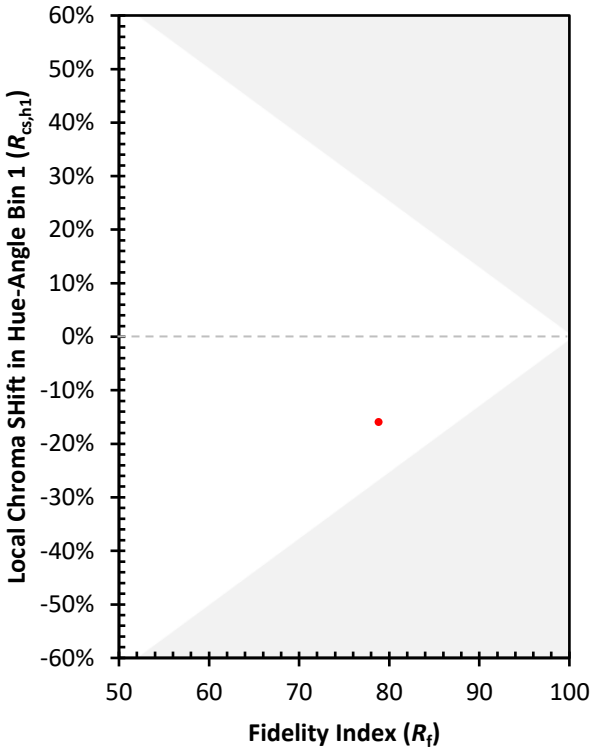


REPORT NUMBER: SP1-2501-332-2

TM-30-18

Measure Comparisons





(END OF REPORT)