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: P1045854

Luminaire Tested: **FFX-CLB-50-740-U-VM8-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:	P1045854
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-740-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5724.8 lumens
Efficiency:	N/A
Efficacy:	113.1 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):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

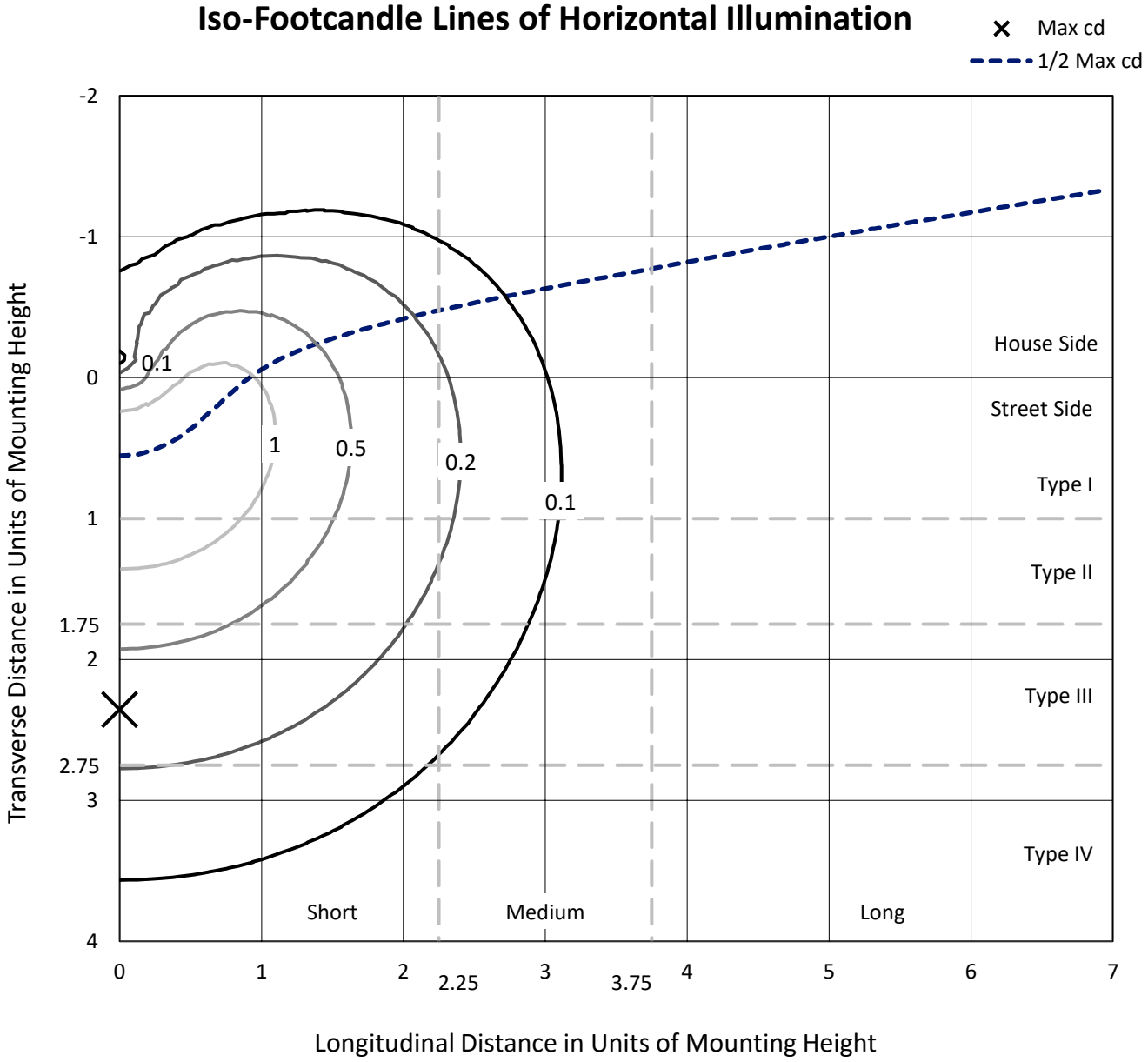


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045854
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



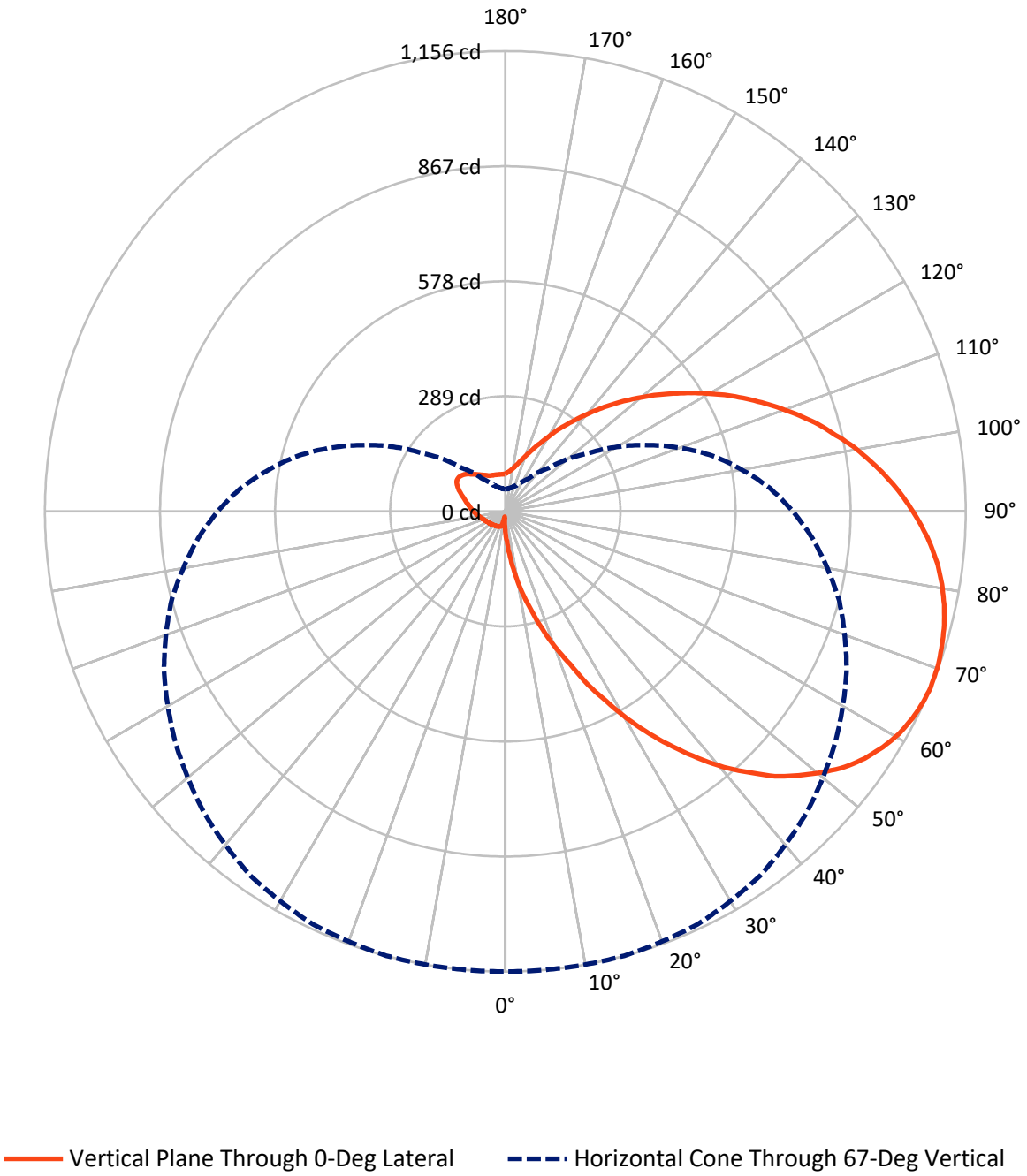
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045854
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

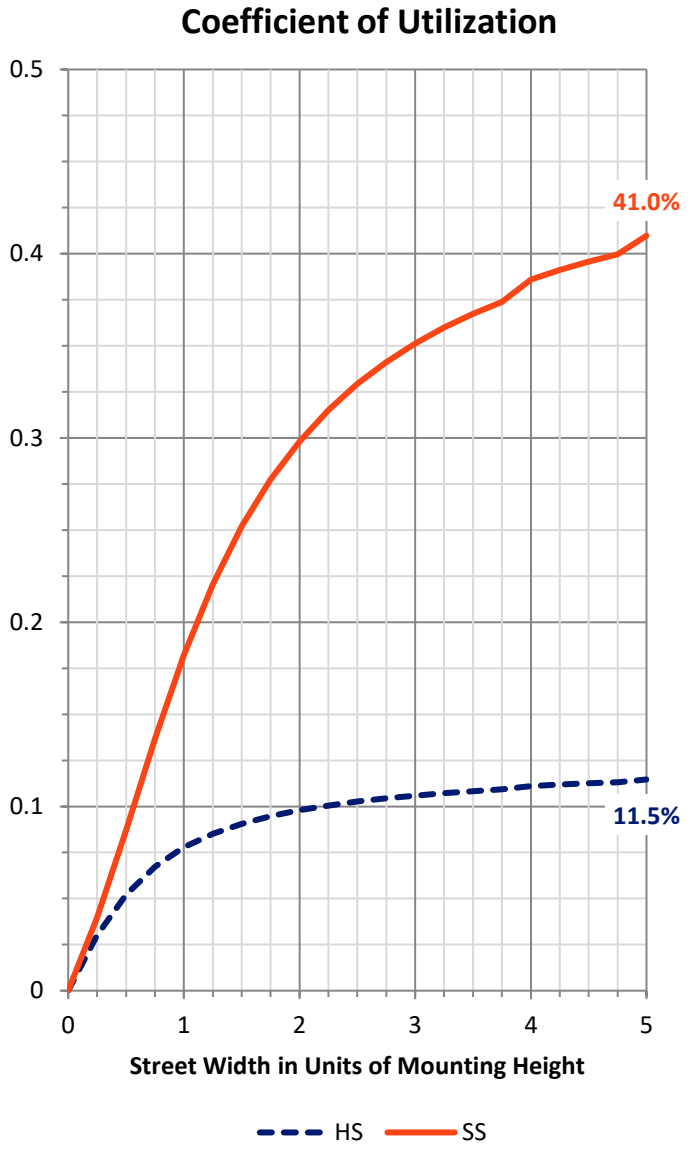
REPORT NUMBER: P1045854
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	708.9	675.4	1384.3
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	2673.1	1667.4	4340.5
	% Fixture	46.7	29.1	75.8
Total	Lumens	3382.0	2342.8	5724.8
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.1
10°-20°	47.6	0.8
20°-30°	132.8	2.3
30°-40°	265.8	4.6
40°-50°	417.7	7.3
50°-60°	549.2	9.6
60°-70°	634.1	11.1
70°-80°	669.2	11.7
80°-90°	658.1	11.5
90°-100°	604.0	10.6
100°-110°	522.4	9.1
110°-120°	428.8	7.5
120°-130°	327.0	5.7
130°-140°	220.2	3.8
140°-150°	130.5	2.3
150°-160°	68.6	1.2
160°-170°	32.0	0.6
170°-180°	9.3	0.2
0°-90°	3382.0	59.1
0°-180°	5724.8	100.0



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

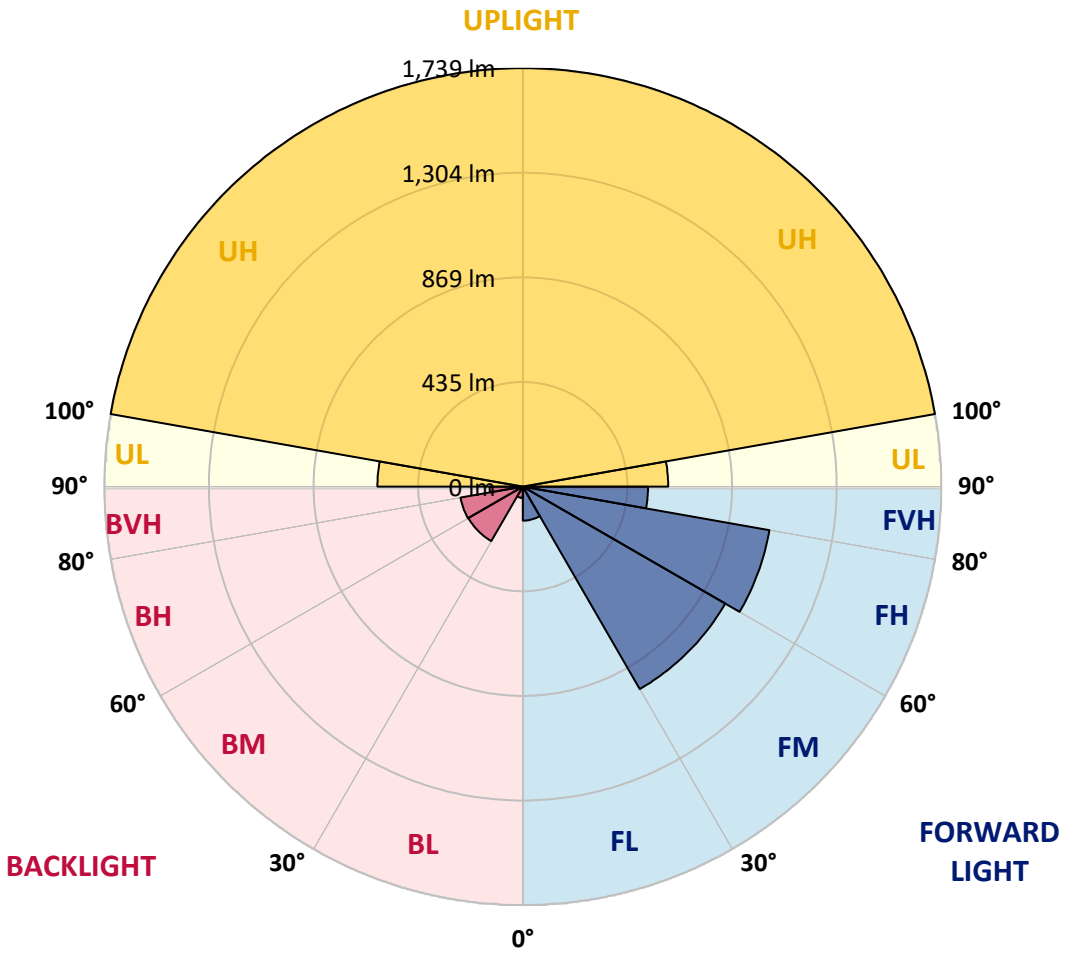
Scaled Data Report

REPORT NUMBER: P1045854
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	141.3	2.5			
FM	(30°-60°)	971.2	17.0			
FH	(60°-80°)	1040.5	18.2			G1/1800
FVH	(80°-90°)	520.1	9.1			G4/750
BL	(0°-30°)	46.7	0.8	B0/110		
BM	(30°-60°)	261.4	4.6	B1/1000		
BH	(60°-80°)	262.8	4.6	B1/500		G1/500
BVH	(80°-90°)	138.0	2.4			G2/225
UL	(90°-100°)	604.0	10.6		U4/1000	
UH	(100°-180°)	1738.7	30.4		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: P1045854
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	73.9	75.2	75.2	74.5	73.9	72.7	71.4	68.9	63.9	60.1	56.4
5°	107.1	107.1	107.7	107.1	104.6	102.1	96.5	92.1	83.9	77.7	70.8
7.5°	145.3	147.2	146.6	144.7	140.3	134.7	127.8	119.6	111.5	102.1	91.4
10°	187.9	187.3	187.3	184.8	179.8	172.2	164.7	155.3	143.4	131.5	117.8
12.5°	228.0	229.9	228.6	225.5	219.2	213.6	204.2	193.5	179.8	167.2	148.4
15°	271.2	272.5	272.5	270.6	264.9	256.8	246.2	236.1	218.0	200.4	182.3
17.5°	320.7	318.8	316.3	316.3	309.4	302.5	291.9	278.1	258.1	238.6	214.2
20°	370.2	369.5	366.4	364.5	360.1	350.1	336.3	320.7	300.6	278.7	249.9
22.5°	416.5	422.8	422.2	419.0	413.4	403.4	388.3	369.5	348.9	321.3	288.1
25°	482.3	478.5	479.2	476.0	471.0	459.1	444.1	422.2	397.1	366.4	328.8
27.5°	539.3	538.0	538.0	536.2	529.3	516.7	499.2	478.5	449.7	413.4	371.4
30°	605.1	601.9	600.7	598.8	591.9	578.1	560.0	534.3	503.0	466.0	416.5
32.5°	667.1	664.6	660.2	659.5	654.5	640.1	619.5	593.2	557.4	514.2	459.7
35°	726.6	727.8	725.9	722.8	715.9	702.1	682.1	650.1	615.1	565.0	506.1
37.5°	786.7	786.1	787.3	784.8	774.2	761.0	737.2	703.4	663.3	608.8	546.8
40°	845.6	842.4	841.8	839.3	831.8	818.6	791.7	757.3	712.2	655.8	585.6
42.5°	896.3	897.6	896.3	893.8	883.8	868.7	840.6	802.3	754.7	694.0	622.0
45°	949.5	947.7	947.0	947.0	933.9	918.2	887.5	848.1	794.8	729.7	653.3
47.5°	991.5	994.0	992.8	989.6	980.9	961.4	928.9	885.7	829.9	762.9	681.5
50°	1031.0	1034.1	1034.7	1031.6	1020.9	999.6	965.8	917.6	861.2	790.4	705.9
52.5°	1067.3	1066.7	1068.5	1066.7	1056.6	1034.7	995.9	947.0	886.3	813.6	724.7
55°	1095.5	1095.5	1096.7	1094.2	1084.8	1060.4	1020.3	968.3	906.3	831.8	741.0
57.5°	1118.0	1119.3	1118.7	1118.0	1107.4	1081.7	1039.1	985.2	922.6	844.9	752.9
60°	1135.6	1136.2	1136.2	1134.9	1124.3	1097.4	1054.1	998.4	933.3	856.2	762.3
62.5°	1146.8	1147.5	1147.5	1146.2	1135.6	1108.0	1064.2	1006.5	940.8	863.1	768.5
65°	1153.7	1154.4	1154.4	1153.1	1142.5	1114.3	1069.2	1010.9	944.5	866.9	772.3
67°	1156.2	1156.2	1156.2	1155.6	1144.3	1116.8	1070.4	1011.5	945.8	868.1	774.2
67.5°	1155.6	1155.6	1156.2	1155.0	1144.3	1116.1	1069.8	1011.5	945.2	868.1	774.2
70°	1153.7	1153.7	1153.7	1152.5	1141.8	1113.6	1067.3	1008.4	943.3	866.9	773.5
72.5°	1146.8	1147.5	1147.5	1146.2	1135.6	1108.0	1061.7	1002.8	938.3	863.1	771.7
75°	1138.7	1138.7	1138.7	1137.4	1126.8	1099.2	1053.5	995.3	932.0	858.1	767.9
77.5°	1126.8	1126.8	1126.8	1125.5	1114.9	1088.0	1042.9	985.9	923.9	851.2	763.5
80°	1111.8	1112.4	1111.8	1110.5	1099.9	1072.9	1029.7	974.0	913.2	843.1	757.3
82.5°	1094.2	1094.9	1094.2	1091.7	1081.7	1056.0	1012.8	958.3	900.7	832.4	749.7
85°	1071.7	1071.1	1071.7	1067.9	1059.2	1033.5	994.0	940.8	885.0	819.9	739.1
87.5°	1046.0	1046.6	1045.4	1043.5	1032.8	1007.8	970.2	920.7	866.9	804.9	726.6
90°	1017.8	1017.8	1017.2	1014.7	1003.4	980.9	945.2	897.6	847.4	787.9	713.4
92.5°	989.0	988.4	986.5	985.2	975.2	952.0	917.6	875.0	828.0	771.0	699.6
95°	957.1	957.1	955.8	953.3	942.0	923.2	890.0	850.0	805.5	752.9	685.2
97.5°	923.2	922.6	922.0	918.2	908.2	889.4	862.5	823.6	782.9	733.5	668.9
100°	890.0	888.2	886.9	883.1	874.4	856.2	830.5	796.7	757.3	712.2	651.4
102.5°	851.2	851.2	850.6	846.8	835.5	820.5	797.3	767.3	733.5	690.2	632.6
105°	816.8	813.6	812.4	808.6	799.8	783.6	764.1	737.8	706.5	666.4	613.8
107.5°	777.9	775.4	774.8	769.2	762.3	747.2	730.9	706.5	680.2	644.5	594.4

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

Scaled Data Report

REPORT NUMBER: P1045854
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*738.5*	737.2	736.6	730.9	722.2	712.2	695.2	675.8	652.7	620.1	576.2
112.5°	*699.6*	698.4	698.4	694.0	685.8	673.3	661.4	644.5	623.8	595.7	554.9
115°	*661.4*	659.5	658.9	653.9	645.8	636.4	624.5	612.6	595.0	571.2	534.3
117.5°	*623.2*	620.7	621.3	617.0	610.7	601.3	590.0	581.9	566.8	544.9	513.6
120°	*583.8*	584.4	584.4	578.7	573.1	565.6	556.2	548.1	538.0	518.6	489.8
122.5°	*546.2*	547.4	547.4	543.7	536.8	529.9	523.6	516.1	507.3	492.3	466.6
125°	*508.6*	511.1	509.8	506.7	501.1	493.6	489.2	482.9	476.0	463.5	440.9
127.5°	*474.1*	474.1	471.0	471.6	466.0	459.7	456.0	451.6	444.7	432.8	414.6
130°	*438.4*	439.1	439.7	435.9	430.9	425.9	422.2	420.3	414.6	404.6	386.5
132.5°	*405.9*	405.9	404.6	402.1	397.7	394.0	394.0	388.3	384.0	374.6	358.9
135°	*373.9*	373.3	373.3	370.8	367.7	365.8	361.4	358.9	354.5	345.7	333.8
137.5°	*342.6*	343.9	342.6	340.7	337.6	335.1	332.0	331.3	325.1	318.8	305.7
140°	*312.5*	314.4	312.5	311.9	309.4	306.3	304.4	301.9	300.0	291.9	280.6
142.5°	*284.4*	285.6	284.4	283.7	281.9	279.4	278.1	276.2	271.8	266.8	257.4
145°	*259.9*	259.3	259.3	258.7	256.2	254.3	252.4	251.2	248.7	243.6	233.0
147.5°	*236.1*	234.3	235.5	234.3	232.4	231.1	230.5	228.0	225.5	220.5	213.0
150°	*211.7*	213.0	212.3	211.7	209.8	209.8	207.9	206.1	204.2	198.6	193.5
152.5°	*191.7*	191.7	192.3	191.0	190.4	188.5	187.3	186.7	184.1	180.4	174.8
155°	*174.8*	174.1	174.1	174.1	172.9	171.0	170.4	169.1	167.9	163.5	158.5
157.5°	*158.5*	158.5	158.5	157.8	157.8	156.0	155.3	153.5	151.6	149.1	144.7
160°	*144.7*	144.7	144.1	144.1	143.4	142.8	141.6	139.7	138.4	136.5	132.8
162.5°	*133.4*	132.8	132.8	132.2	131.5	130.3	129.7	129.0	127.1	125.3	122.1
165°	*122.8*	122.8	122.8	122.1	121.5	120.9	120.3	119.0	117.8	116.5	114.6
167.5°	*114.6*	114.6	114.6	114.0	114.0	113.4	112.7	111.5	110.2	109.0	107.7
170°	*108.4*	108.4	108.4	107.7	107.1	106.5	105.9	105.2	104.6	103.3	102.7
172.5°	*103.3*	103.3	103.3	103.3	102.1	101.5	100.8	100.8	100.2	99.6	99.0
175°	*99.0*	99.0	99.0	99.0	98.3	97.7	97.1	97.1	96.5	95.8	95.2
177.5°	*96.5*	96.5	96.5	95.8	95.8	95.2	94.6	94.6	94.0	94.0	93.3
180°	*93.3*	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3

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

Scaled Data Report

REPORT NUMBER: P1045854
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	53.9	51.4	47.0	43.2	40.1	37.0	35.1	33.2	33.2	33.8	32.6
5°	65.1	60.8	52.6	43.8	36.3	30.1	25.1	20.7	16.9	15.0	15.0
7.5°	86.4	81.4	70.2	58.9	48.2	38.2	30.1	23.2	17.5	14.4	13.8
10°	110.9	105.2	89.6	75.8	62.6	50.1	39.5	30.1	23.8	20.7	20.0
12.5°	139.0	131.5	112.7	95.2	78.3	62.6	49.5	38.8	32.6	29.4	28.8
15°	171.6	159.7	138.4	116.5	94.6	75.2	59.5	47.6	40.7	36.3	36.3
17.5°	201.1	188.5	162.9	134.7	109.6	87.1	68.3	53.9	44.5	40.1	39.5
20°	234.9	218.0	187.3	154.7	124.0	96.5	73.9	57.6	46.3	40.7	40.7
22.5°	269.3	251.8	214.2	174.8	137.8	105.2	79.5	60.1	47.6	41.3	40.7
25°	310.0	286.2	241.1	196.7	153.5	114.6	84.6	62.6	48.9	42.6	41.3
27.5°	349.5	325.1	272.5	218.6	167.9	124.0	88.9	65.1	50.1	43.2	42.6
30°	390.8	360.8	301.3	241.1	182.9	132.2	93.3	67.0	50.7	43.8	42.6
32.5°	432.2	399.0	333.2	263.1	197.3	139.7	97.1	68.3	52.0	44.5	43.2
35°	474.1	438.4	363.9	285.0	210.5	146.6	99.6	69.5	52.6	44.5	43.8
37.5°	510.5	472.9	392.7	305.0	221.7	152.2	102.1	70.8	52.6	45.1	44.5
40°	546.8	506.1	417.8	321.9	231.7	156.6	104.0	71.4	53.2	45.7	45.1
42.5°	579.4	534.3	439.7	337.0	239.9	159.7	104.6	71.4	53.9	46.3	45.7
45°	608.8	563.1	460.4	351.4	246.8	161.6	105.2	72.0	54.5	47.0	46.3
47.5°	635.7	586.9	479.2	363.3	252.4	163.5	105.2	72.0	55.1	48.2	47.0
50°	658.3	606.9	494.8	373.3	256.2	164.1	104.6	72.0	55.7	48.9	48.2
52.5°	675.8	623.8	508.0	380.2	258.7	163.5	104.0	72.0	56.4	49.5	48.9
55°	690.9	637.6	517.4	385.8	259.3	162.2	103.3	72.0	57.0	50.7	50.1
57.5°	702.1	647.6	525.5	390.2	259.9	161.0	102.1	72.0	57.6	51.4	50.7
60°	710.9	656.4	531.8	392.7	259.3	159.1	101.5	72.0	58.3	52.6	52.0
62.5°	717.2	661.4	535.5	393.3	257.4	157.2	100.2	72.0	58.9	53.9	53.2
65°	720.9	665.2	538.7	394.0	255.5	155.3	99.6	72.7	60.1	55.7	55.1
67°	*722.2*	*667.1*	*539.3*	*394.0*	*254.3*	*154.1*	*99.6*	*73.3*	*61.4*	*56.4*	*55.7*
67.5°	722.8	667.1	539.3	393.3	253.7	154.1	99.6	73.3	61.4	57.0	56.4
70°	722.2	667.1	539.3	392.1	251.8	152.8	99.0	74.5	63.3	58.9	58.3
72.5°	720.9	665.8	538.0	390.2	249.3	151.6	99.6	75.8	65.1	60.8	60.1
75°	717.8	663.3	535.5	387.7	247.4	150.3	100.2	77.0	67.0	63.3	62.6
77.5°	714.7	660.2	533.6	385.2	245.5	150.3	100.8	78.9	69.5	65.8	65.1
80°	709.0	655.8	529.9	382.7	243.6	149.7	102.1	81.4	72.0	68.3	67.6
82.5°	702.1	649.5	524.9	378.9	241.8	149.7	104.0	83.3	74.5	70.8	70.2
85°	692.7	641.4	518.6	373.9	239.9	150.3	105.2	85.8	77.0	73.9	73.3
87.5°	682.1	631.4	511.1	369.5	238.0	150.3	107.1	88.3	79.5	76.4	76.4
90°	669.6	620.7	502.3	364.5	236.1	151.6	109.6	90.8	82.7	79.5	79.5
92.5°	658.3	609.4	495.4	359.5	234.9	152.8	112.1	94.0	85.8	82.7	82.7
95°	643.3	597.5	485.4	355.1	234.3	154.1	114.6	97.1	89.6	86.4	85.8
97.5°	628.9	584.4	476.6	350.1	233.6	156.6	117.8	100.8	92.7	89.6	89.6
100°	613.2	571.2	466.6	345.7	233.6	159.7	122.1	104.6	97.1	94.0	93.3
102.5°	598.2	556.8	456.6	341.4	234.9	162.9	126.5	109.0	101.5	98.3	97.7
105°	581.2	541.8	447.8	337.6	236.1	167.2	131.5	114.6	106.5	103.3	102.7
107.5°	564.3	528.0	437.8	334.5	238.6	172.9	137.8	120.3	112.1	108.4	107.7

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

Scaled Data Report

REPORT NUMBER: P1045854
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	546.2	513.0	429.0	332.0	242.4	179.1	144.7	127.8	118.4	114.6	114.0
112.5°	529.3	497.9	419.7	330.1	246.2	186.7	152.8	134.7	125.9	120.9	120.3
115°	510.5	482.3	410.9	328.2	250.5	194.2	161.6	142.2	132.8	127.8	127.8
117.5°	492.3	466.0	400.9	326.3	254.9	202.3	169.7	150.3	139.7	134.7	134.0
120°	471.0	448.5	390.2	322.6	257.4	208.6	176.6	157.2	145.3	140.3	139.7
122.5°	449.7	429.0	376.4	316.9	258.1	212.3	181.6	162.9	150.3	144.7	144.1
125°	425.3	407.8	362.0	308.2	256.2	214.2	184.8	164.7	152.2	145.9	145.3
127.5°	401.5	384.6	345.1	297.5	251.2	212.3	184.1	164.7	152.2	145.3	144.7
130°	375.8	360.8	325.1	284.4	243.0	207.9	181.6	162.2	149.7	142.8	142.2
132.5°	349.5	337.0	305.7	270.0	233.0	201.1	176.0	157.8	145.3	139.0	138.4
135°	323.8	312.5	285.6	253.7	222.4	192.9	169.7	152.2	139.7	134.0	134.0
137.5°	299.4	288.7	264.9	238.0	209.8	183.5	162.2	145.3	134.7	129.0	127.8
140°	274.3	265.6	244.9	221.1	196.7	173.5	154.1	138.4	128.4	123.4	122.8
142.5°	251.2	243.6	226.1	206.7	184.1	164.1	145.9	132.8	123.4	118.4	117.8
145°	229.2	222.4	207.3	189.8	171.6	154.1	137.8	125.9	117.8	114.0	113.4
147.5°	207.3	202.9	190.4	176.0	159.1	143.4	130.3	120.3	112.7	109.6	109.0
150°	189.2	183.5	174.1	161.0	147.8	134.7	123.4	114.6	109.0	105.9	105.9
152.5°	171.0	167.9	158.5	148.4	137.2	126.5	116.5	109.6	105.2	102.7	102.7
155°	157.2	152.8	144.7	136.5	127.1	118.4	111.5	105.9	102.1	100.2	99.6
157.5°	142.8	140.3	134.0	126.5	119.6	112.7	107.1	102.7	99.6	98.3	97.7
160°	130.9	129.0	124.0	118.4	112.7	107.7	103.3	100.2	97.7	96.5	96.5
162.5°	120.9	119.6	115.2	111.5	107.1	103.3	100.2	97.7	96.5	95.8	95.8
165°	113.4	112.1	109.0	105.9	103.3	100.2	98.3	96.5	95.2	95.2	95.2
167.5°	107.1	105.9	104.0	102.1	100.2	97.7	96.5	95.2	95.2	94.6	94.6
170°	102.1	101.5	99.6	98.3	97.1	95.8	95.2	94.6	94.0	94.0	94.0
172.5°	98.3	97.7	96.5	95.8	94.6	94.0	94.0	94.0	94.0	94.0	94.0
175°	95.2	94.6	94.6	94.0	93.3	93.3	92.7	93.3	93.3	93.3	93.3
177.5°	93.3	93.3	92.7	92.7	92.7	92.7	92.7	93.3	93.3	94.0	94.0
180°	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

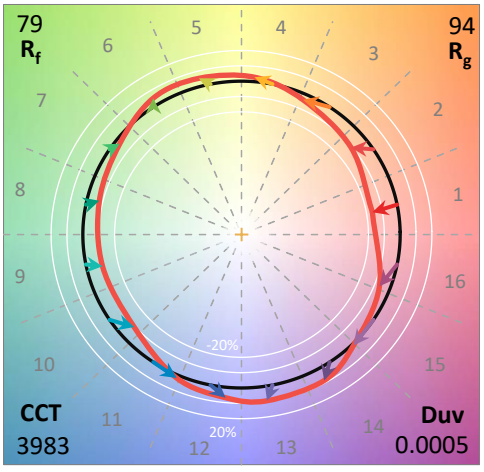
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

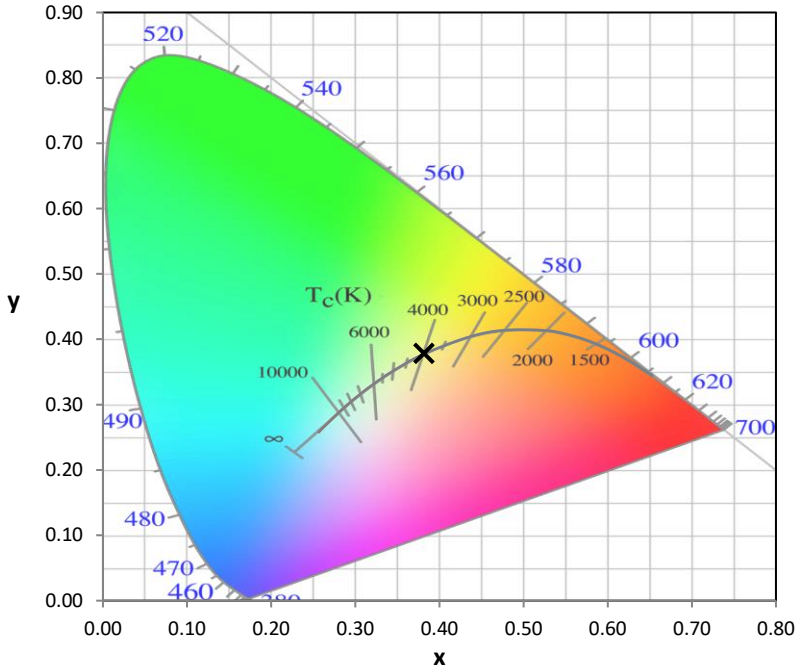
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

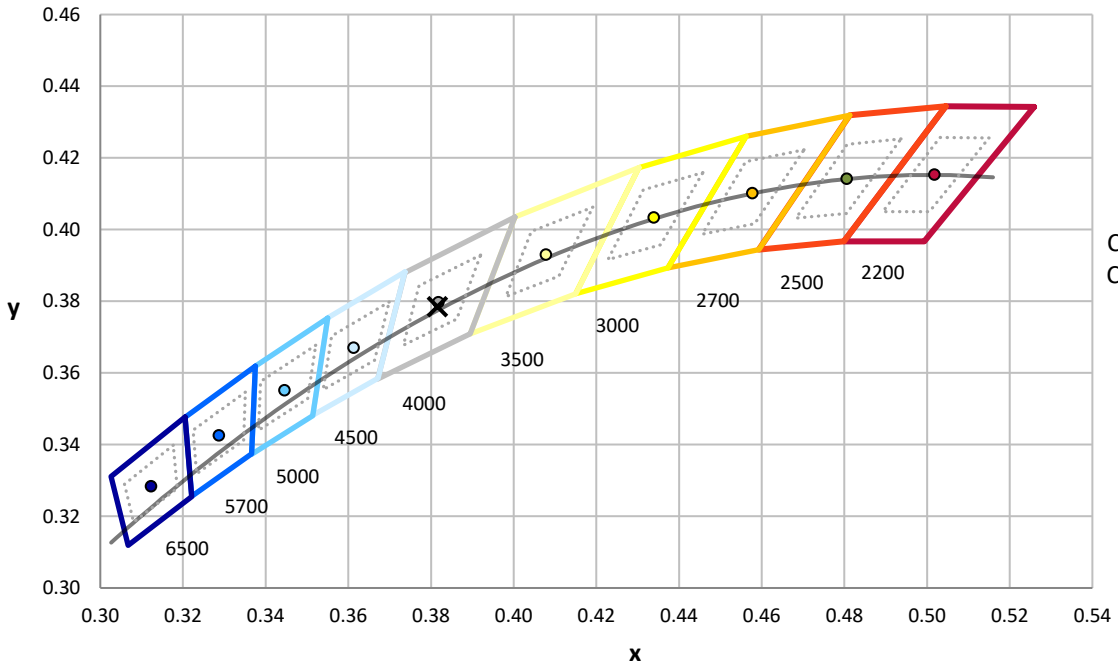
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

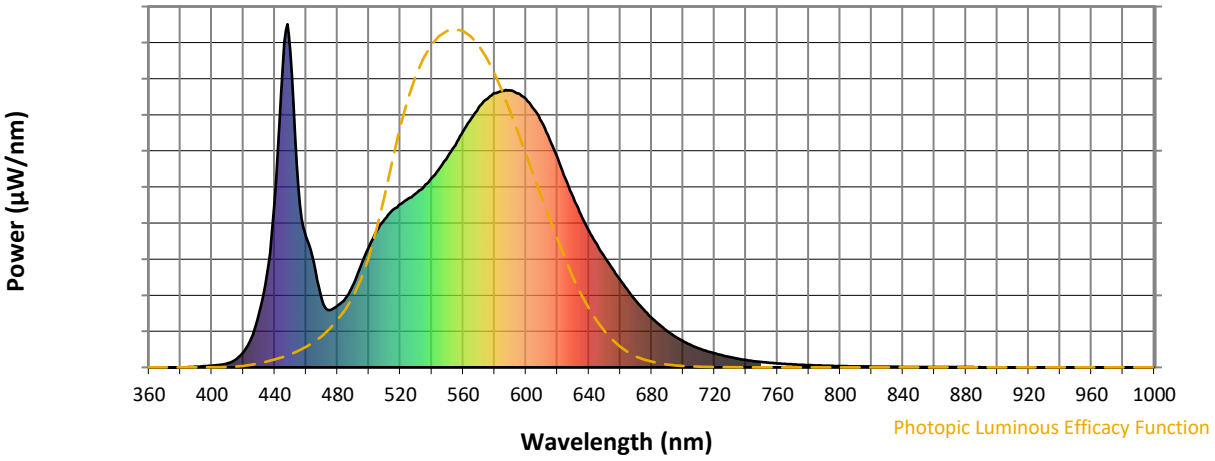


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

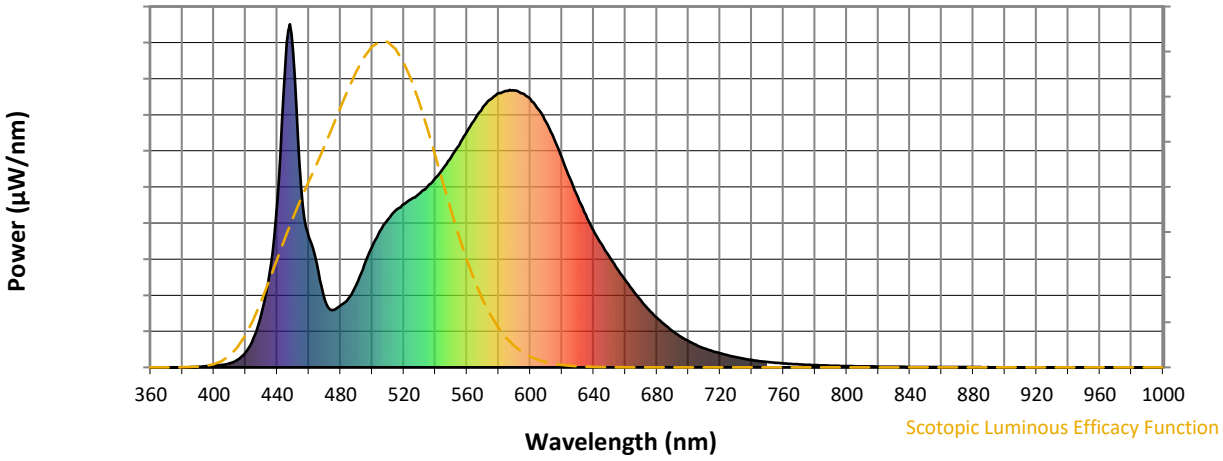


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

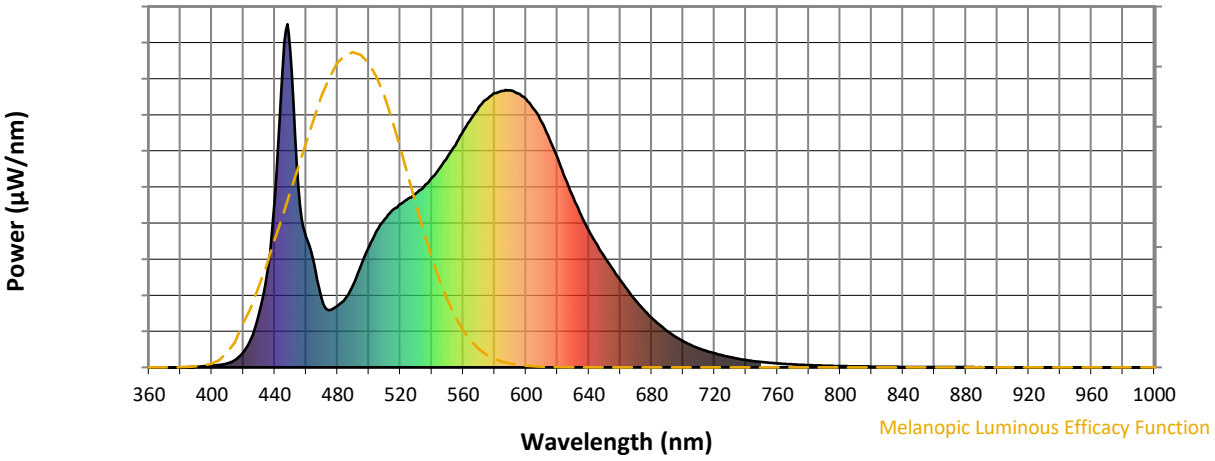


Scotopic Lumens: NR **S/P: 1.61**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

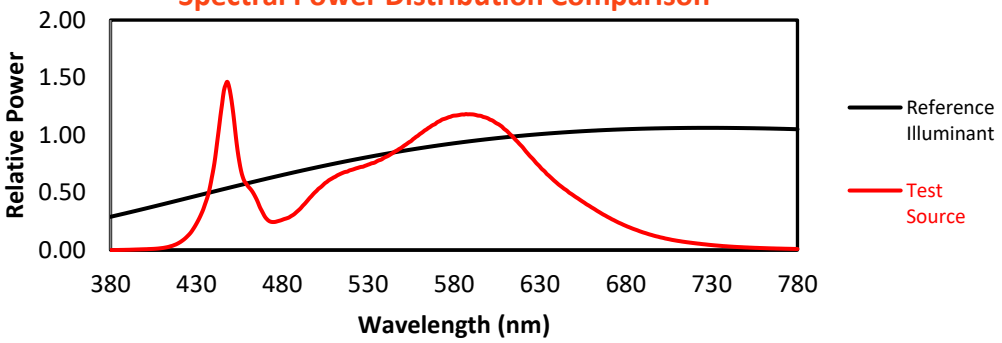
REPORT NUMBER: SP1-2501-332-11

TM-30-18

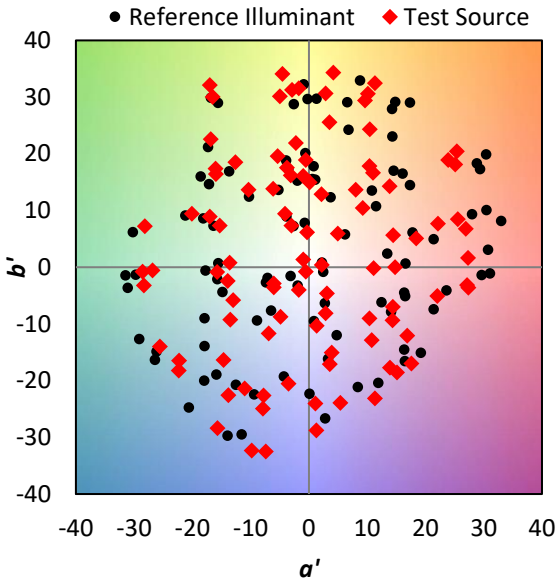
Summary

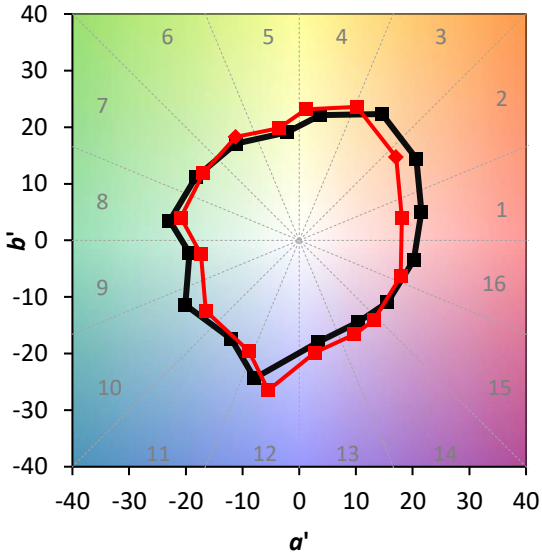
R_f = 79
R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

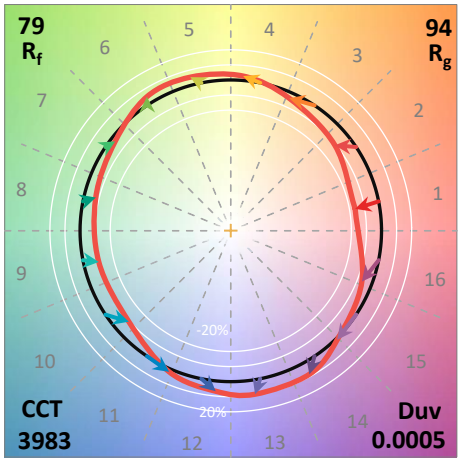
Spectral Power Distribution Comparison

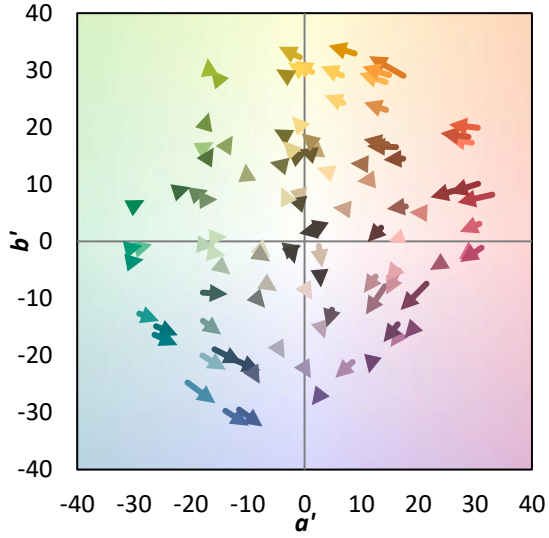


Color Vector Graphics







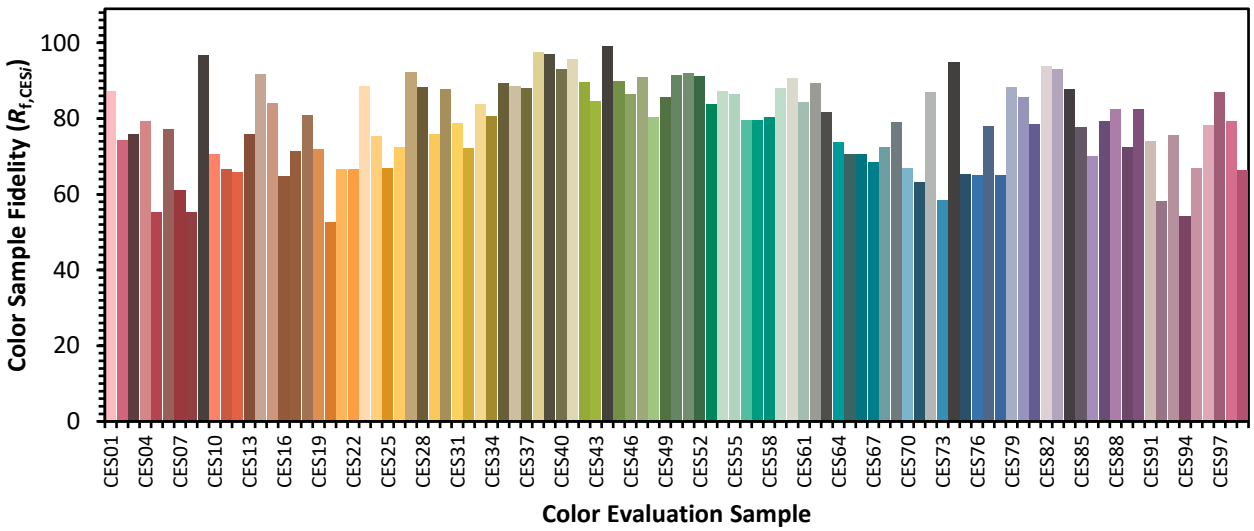


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

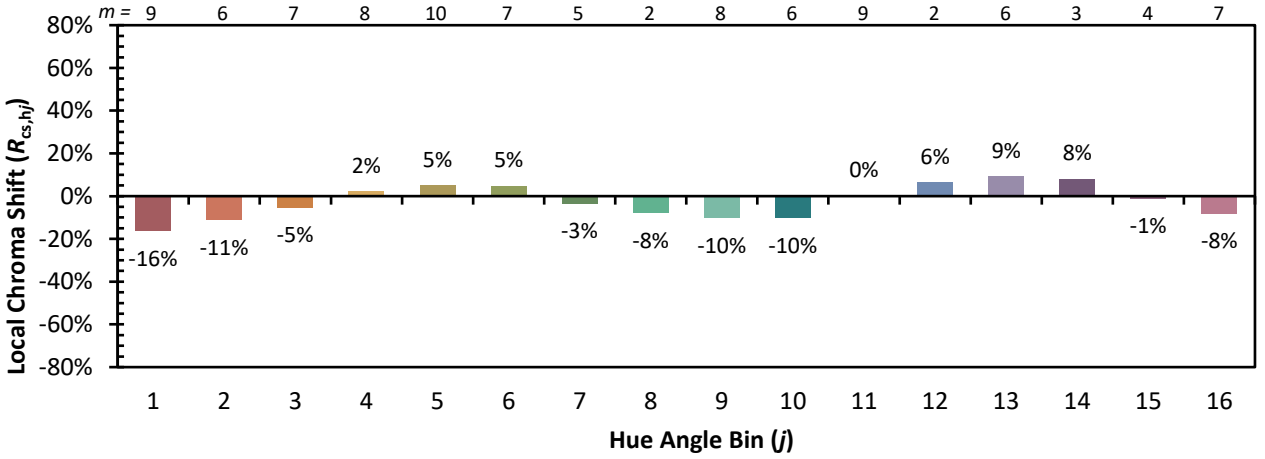
CES01 = 85	CES26 = 72	CES51 = 92	CES76 = 65
CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

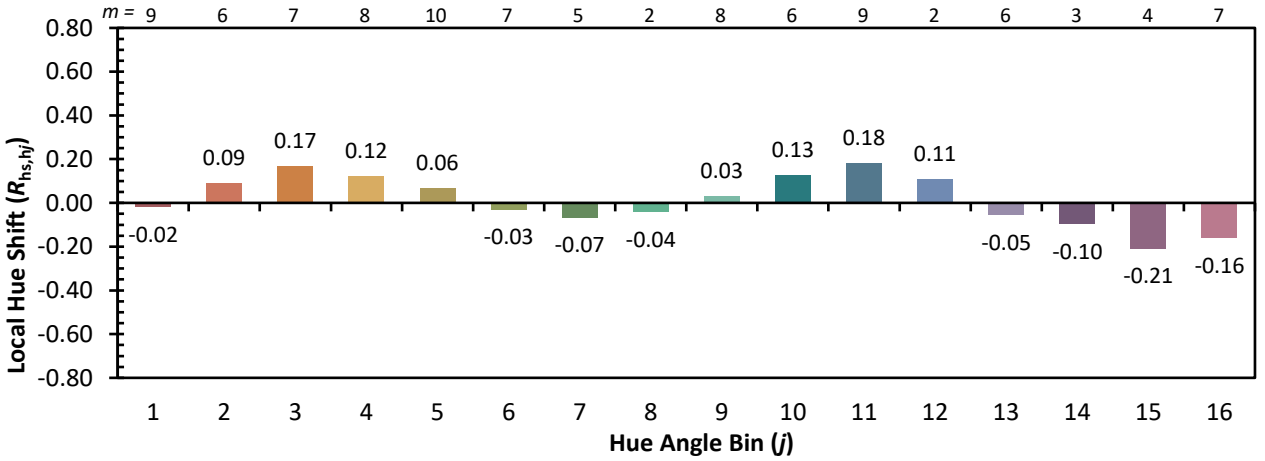


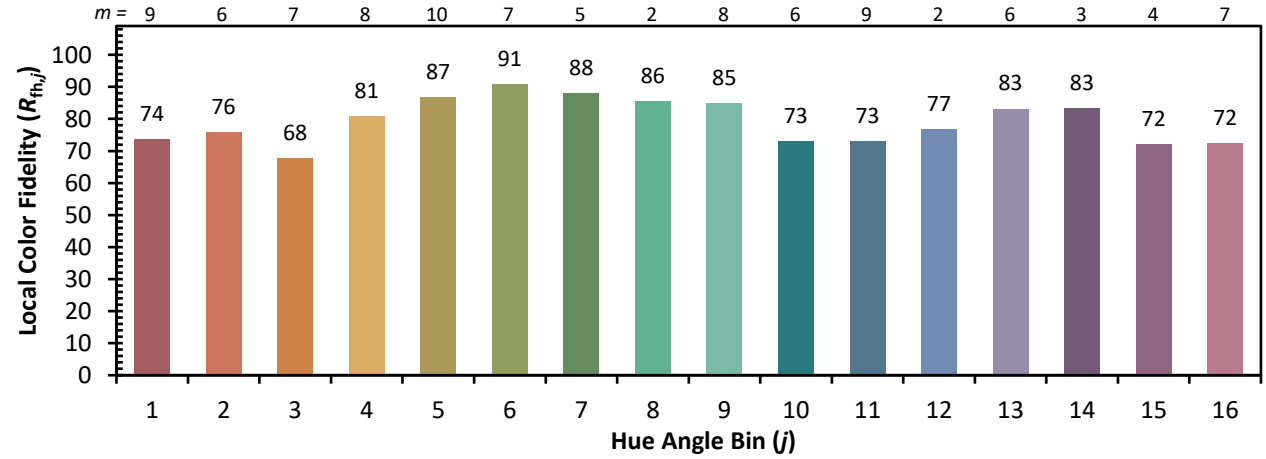
REPORT NUMBER: SP1-2501-332-11

TM-30-18

Color Rendition by Hue-Angle Bin



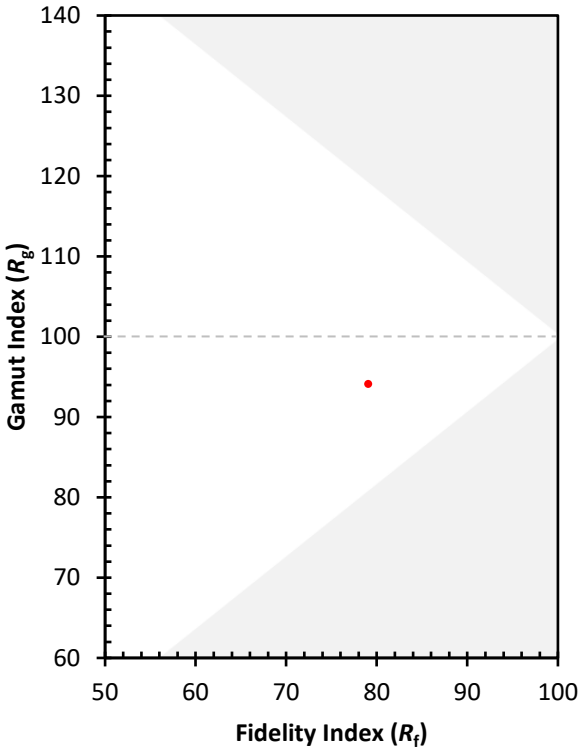


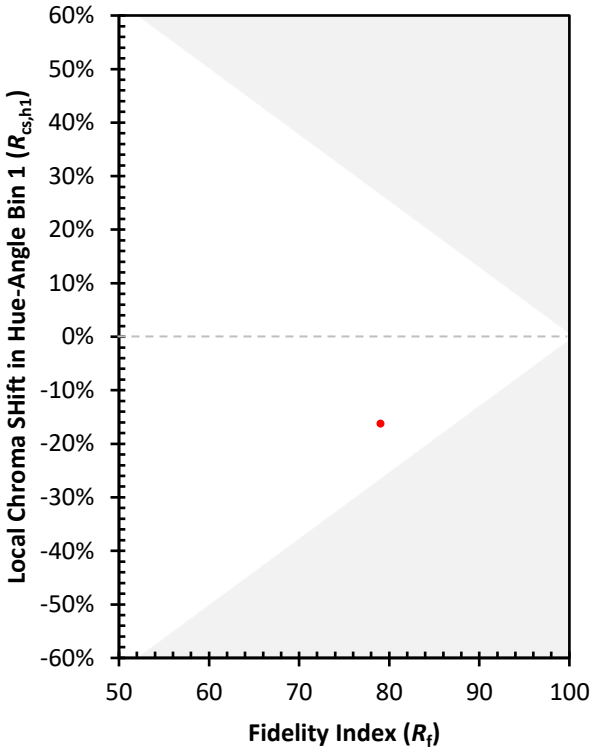


REPORT NUMBER: SP1-2501-332-11

TM-30-18

Measure Comparisons





(END OF REPORT)