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: P1045764

Luminaire Tested: **FFX-CLB-50-740-U-FR-T5-UPLR-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:	P1045764
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-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5452.4 lumens
Efficiency:	N/A
Efficacy:	107.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

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

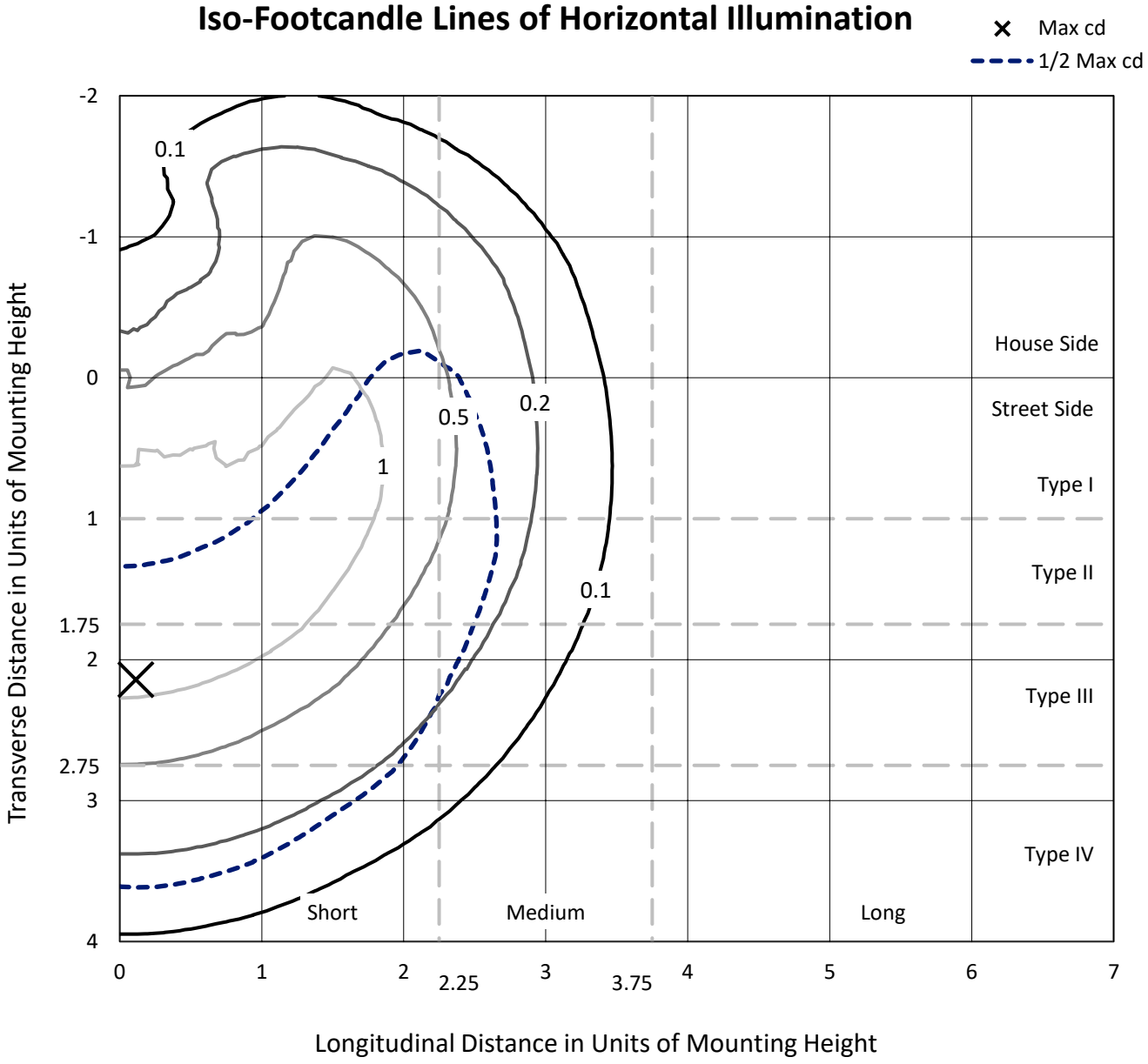


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045764
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-UPLR-HSS

Iso-Footcandle Lines of Horizontal Illumination



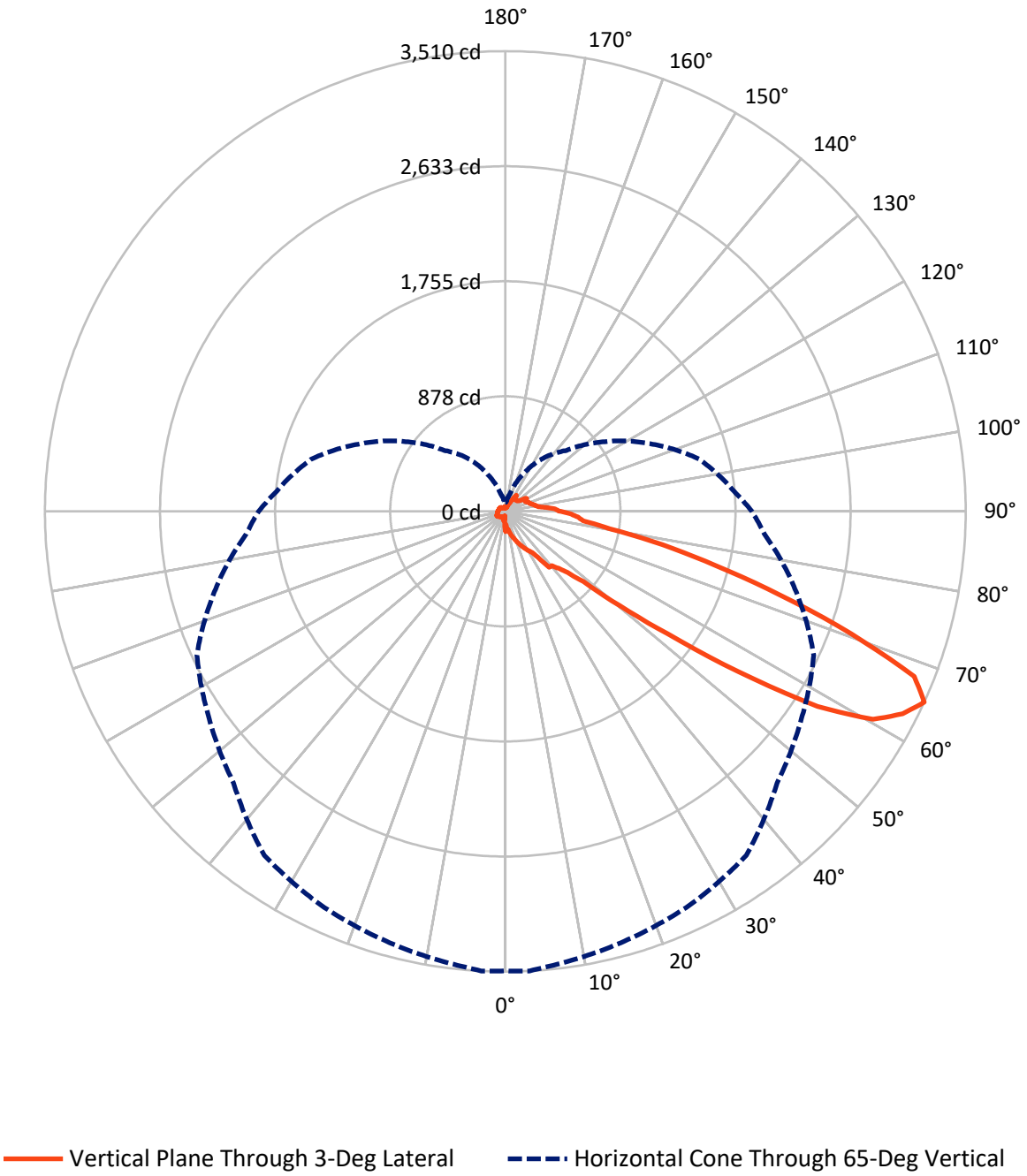
Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045764
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-UPLR-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

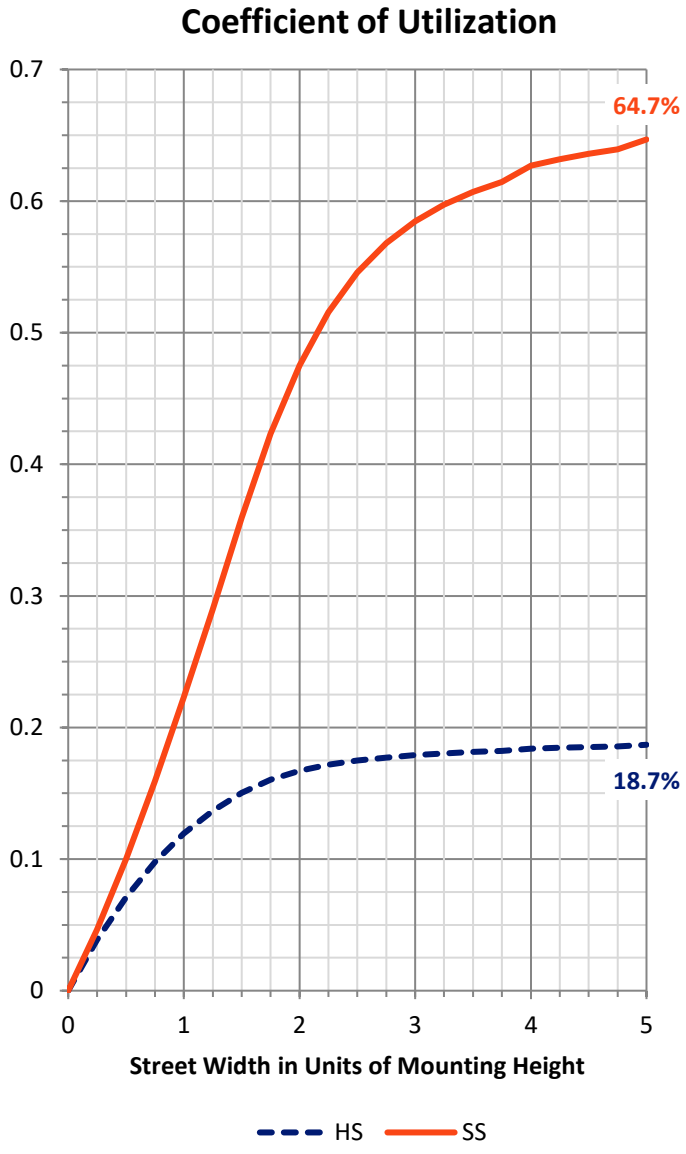
REPORT NUMBER: P1045764
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-UPLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1054.9	229.3	1284.2
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	3678.4	489.8	4168.2
	% Fixture	67.5	9.0	76.4
Total	Lumens	4733.3	719.1	5452.4
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.2
10°-20°	37.1	0.7
20°-30°	82.9	1.5
30°-40°	167.5	3.1
40°-50°	336.5	6.2
50°-60°	1079.9	19.8
60°-70°	1722.5	31.6
70°-80°	937.0	17.2
80°-90°	360.1	6.6
90°-100°	214.6	3.9
100°-110°	142.4	2.6
110°-120°	113.5	2.1
120°-130°	94.6	1.7
130°-140°	65.1	1.2
140°-150°	52.6	1.0
150°-160°	23.5	0.4
160°-170°	9.5	0.2
170°-180°	3.2	0.1
0°-90°	4733.3	86.8
0°-180°	5452.4	100.0



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

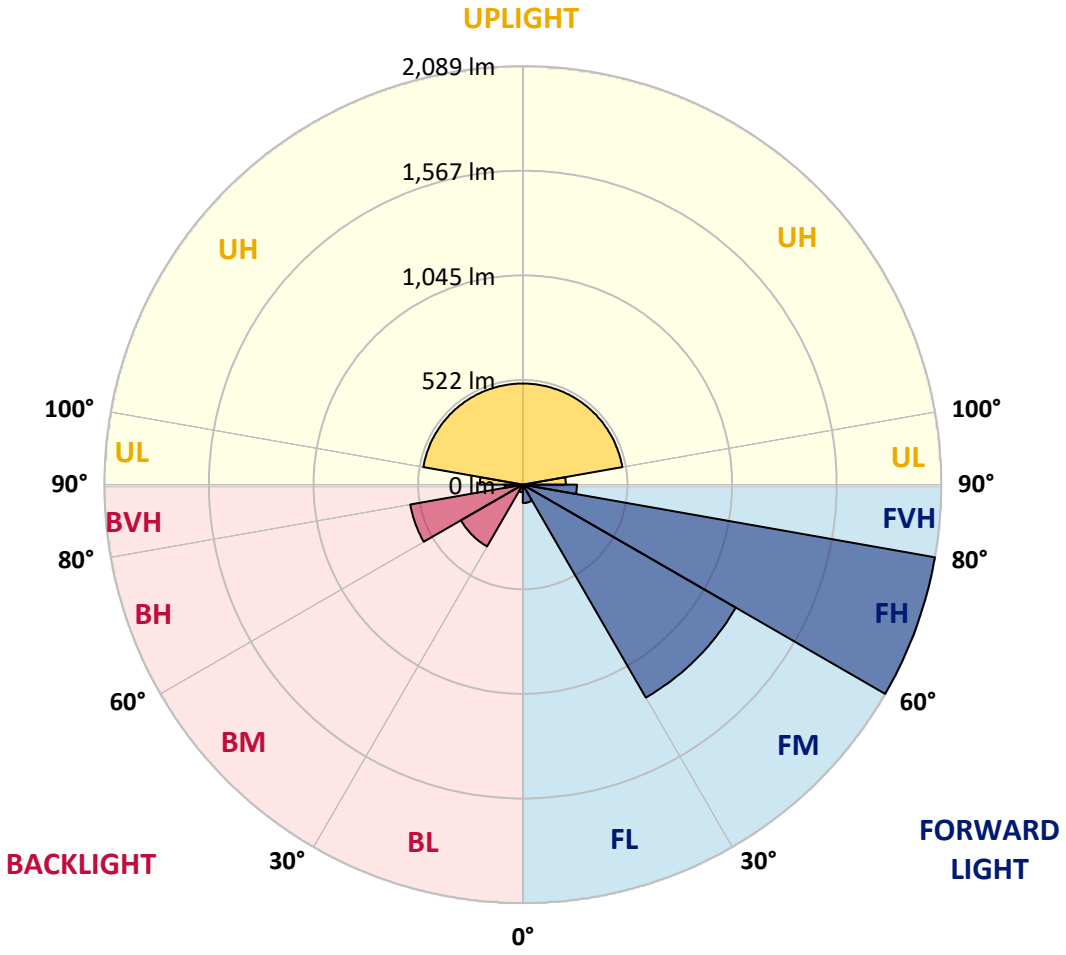
Scaled Data Report

REPORT NUMBER: P1045764
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-UPLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	91.9	1.7			
FM	(30°-60°)	1227.5	22.5			
FH	(60°-80°)	2089.0	38.3			G2/5000
FVH	(80°-90°)	269.9	5.0			G3/500
BL	(0°-30°)	37.8	0.7	B0/110		
BM	(30°-60°)	356.4	6.5	B1/1000		
BH	(60°-80°)	570.5	10.5	B2/1000		G2/1000
BVH	(80°-90°)	90.1	1.7			G1/100
UL	(90°-100°)	214.6	3.9		U3/500	
UH	(100°-180°)	504.5	9.3		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045764
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1
2.5°	99.6	99.0	100.9	109.6	132.2	139.7	133.4	122.8	120.9	132.2	141.0
5°	135.9	134.7	133.4	124.7	115.9	120.3	132.8	135.9	123.4	100.2	85.2
7.5°	137.8	136.6	137.2	137.2	135.3	127.2	117.8	122.2	132.8	118.4	93.3
10°	153.5	152.9	152.9	152.2	150.3	147.8	147.2	137.8	121.5	109.0	104.0
12.5°	179.2	179.2	178.5	177.9	176.0	171.6	166.0	158.5	153.5	138.4	122.8
15°	199.8	198.0	199.2	197.3	194.2	191.7	184.8	176.7	161.6	151.6	137.8
17.5°	219.9	219.9	220.5	217.4	213.6	211.7	204.2	193.6	179.2	161.6	148.5
20°	244.9	243.1	243.1	239.9	235.5	229.3	222.4	213.0	201.1	177.3	159.7
22.5°	268.7	269.4	269.4	264.4	257.5	251.8	242.4	231.2	219.9	195.5	172.9
25°	295.7	295.1	294.4	293.8	286.9	276.9	265.0	253.1	244.9	221.1	189.8
27.5°	320.7	319.5	318.9	322.0	315.7	305.7	288.2	273.8	265.0	240.6	205.5
30°	348.3	347.7	347.7	348.9	346.4	330.8	312.0	295.1	282.5	258.1	220.5
32.5°	372.7	371.5	372.1	377.1	376.5	356.4	339.5	318.9	303.2	283.8	242.4
35°	432.9	430.4	434.1	441.6	447.3	426.0	402.8	370.9	347.1	327.0	284.4
37.5°	541.2	541.9	543.1	533.1	511.8	496.1	484.9	459.2	429.7	395.9	345.8
40°	545.6	545.0	548.1	563.2	571.9	545.0	518.7	488.6	481.1	452.3	388.4
42.5°	596.4	592.6	595.8	610.2	622.1	605.8	582.6	531.9	504.3	478.6	426.0
45°	669.0	664.7	670.3	672.8	670.3	652.8	656.5	615.2	589.5	537.5	464.2
47.5°	779.9	800.0	803.1	803.7	828.8	805.0	789.9	750.5	692.2	630.2	546.9
50°	1095.0	1127.6	1116.3	1105.7	1107.6	1089.4	1068.7	1014.2	935.9	831.3	712.3
52.5°	1563.0	1550.5	1552.3	1559.2	1576.8	1496.0	1460.9	1378.8	1252.3	1127.0	955.3
55°	2135.6	2156.9	2155.6	2178.2	2175.0	2087.9	1977.1	1839.2	1655.1	1471.5	1268.6
57.5°	2843.4	2805.9	2780.8	2739.4	2703.7	2585.3	2512.0	2363.0	2119.3	1843.6	1583.0
60°	3240.6	3219.9	3213.7	3156.7	3107.8	2962.5	2811.5	2649.9	2459.4	2133.7	1838.0
62.5°	3389.7	3399.7	3391.0	3354.0	3321.4	3194.2	2940.5	2764.5	2594.1	2280.9	1969.5
65°	3504.3	3510.0	3489.9	3406.0	3317.0	3203.0	2929.9	2756.4	2594.7	2286.5	1982.1
67.5°	3364.0	3362.8	3347.1	3226.2	3075.9	2963.1	2715.0	2528.3	2391.1	2133.7	1839.9
70°	2793.3	2797.1	2800.2	2711.3	2546.5	2462.6	2211.4	2051.0	1932.6	1710.2	1499.1
72.5°	2186.9	2198.2	2203.2	2133.7	2011.5	1925.1	1757.2	1636.9	1526.6	1350.0	1184.0
75°	1645.0	1656.3	1653.2	1610.0	1524.1	1500.3	1418.9	1316.2	1224.1	1086.9	946.6
77.5°	1234.1	1224.7	1222.2	1180.2	1095.7	1101.9	1078.7	1019.9	948.4	867.6	769.9
80°	817.5	809.4	793.1	807.5	800.6	780.6	742.3	712.3	684.1	635.8	582.6
82.5°	601.4	598.9	595.8	586.4	580.1	575.1	558.2	509.9	476.1	448.5	416.6
85°	562.5	555.0	556.3	540.0	520.6	503.0	489.9	469.2	442.9	399.7	353.3
87.5°	491.1	491.1	487.4	476.1	456.7	452.3	442.9	428.5	412.8	379.6	338.3
90°	408.4	405.9	405.9	405.3	400.9	397.8	379.6	366.5	359.6	326.4	297.6
92.5°	377.1	375.9	373.4	370.2	357.7	355.2	337.0	320.1	305.1	284.4	261.9
95°	306.3	308.8	303.2	302.6	296.3	292.6	278.1	270.0	260.0	243.1	222.4
97.5°	258.7	255.0	255.6	250.0	243.7	241.2	232.4	220.5	211.1	198.0	182.9
100°	237.4	236.8	235.5	231.2	222.4	216.8	207.4	196.1	186.7	174.8	162.2
102.5°	223.6	223.0	222.4	218.6	208.6	205.5	196.7	187.9	179.8	169.1	152.9
105°	209.9	209.2	208.0	203.6	197.3	194.2	186.1	181.0	172.9	163.5	147.8
107.5°	197.3	197.3	196.7	191.7	187.9	185.4	177.3	172.9	164.1	156.0	141.0
110°	191.1	191.1	190.4	186.7	179.2	175.4	167.9	162.2	154.1	146.0	134.1

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

Scaled Data Report

REPORT NUMBER: P1045764
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	184.2	*184.8*	184.8	186.1	167.9	161.0	154.7	150.3	143.5	135.9	125.9
115°	168.5	*169.1*	168.5	174.8	168.5	159.1	155.4	147.8	139.1	127.2	116.5
117.5°	169.8	*169.8*	171.0	174.2	171.0	162.2	154.1	144.7	137.2	125.3	115.9
120°	192.3	*191.1*	191.1	184.8	183.5	175.4	169.8	159.7	147.2	135.3	122.2
122.5°	184.8	*184.2*	184.8	174.8	174.2	172.3	170.4	168.5	152.2	145.3	128.4
125°	147.8	*146.6*	146.0	142.2	148.5	144.1	142.8	147.2	136.6	130.3	120.9
127.5°	132.2	*130.9*	130.3	129.0	132.8	125.3	124.0	125.3	117.1	109.6	104.0
130°	126.5	*124.7*	124.7	129.0	134.7	128.4	121.5	116.5	113.4	108.4	99.0
132.5°	119.7	*119.7*	120.3	125.9	135.9	129.0	116.5	106.5	105.2	105.9	101.5
135°	117.8	*117.1*	117.8	115.9	115.3	111.5	105.9	97.7	95.8	100.9	95.8
137.5°	120.9	*120.3*	119.7	114.6	109.0	105.9	104.6	99.6	94.6	91.5	86.4
140°	119.7	*119.7*	119.0	117.8	114.0	107.7	106.5	101.5	96.5	90.8	84.6
142.5°	121.5	*123.4*	124.7	125.9	124.7	117.8	110.9	102.7	97.1	94.0	87.1
145°	149.7	*149.7*	149.7	147.2	142.8	137.2	132.2	126.5	122.2	112.1	102.7
147.5°	124.0	*124.0*	123.4	124.0	124.0	121.5	120.9	119.0	119.7	114.6	105.2
150°	85.8	*87.7*	87.7	90.8	92.1	90.8	90.8	92.1	90.2	89.6	84.6
152.5°	69.5	*68.9*	67.7	68.9	68.9	69.5	69.5	68.3	67.7	67.7	64.5
155°	61.4	*61.4*	61.4	60.8	59.5	60.1	60.8	60.8	58.9	57.6	55.1
157.5°	48.9	*48.2*	48.2	49.5	49.5	49.5	49.5	49.5	49.5	50.1	50.7
160°	41.3	*40.1*	40.7	40.7	41.3	42.0	41.3	42.0	42.0	42.6	42.0
162.5°	33.8	*33.2*	33.2	33.8	34.5	35.1	35.7	35.7	36.3	37.6	38.2
165°	30.1	*30.1*	30.1	30.7	30.7	31.3	31.9	32.6	33.8	35.7	36.3
167.5°	28.2	*28.2*	28.2	28.2	28.8	29.4	30.7	32.6	33.8	35.7	35.7
170°	27.6	*27.6*	28.2	28.2	28.2	28.8	31.3	33.2	33.8	34.5	34.5
172.5°	28.8	*28.8*	28.8	28.8	28.8	30.1	33.2	33.8	33.8	33.8	34.5
175°	30.1	*30.1*	29.4	29.4	30.1	30.7	31.3	34.5	35.7	36.3	37.6
177.5°	28.2	*28.2*	28.2	28.8	28.8	29.4	30.1	31.3	31.3	32.6	34.5
180°	31.3	*31.3*	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3

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

Scaled Data Report

REPORT NUMBER: P1045764
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1
2.5°	147.2	157.9	144.7	130.9	120.9	126.5	132.8	127.8	122.2	122.8	112.1
5°	88.3	90.8	92.1	80.2	66.4	73.9	90.2	84.6	65.2	36.3	31.3
7.5°	85.2	81.4	80.2	89.0	80.8	53.9	42.0	38.2	50.7	60.8	63.9
10°	100.9	96.5	87.1	71.4	63.3	59.5	58.3	55.8	48.2	37.6	35.7
12.5°	115.9	110.9	102.1	94.6	83.9	70.2	61.4	58.9	63.3	70.8	70.8
15°	130.9	124.0	112.8	102.7	94.6	79.6	68.3	58.3	57.0	58.9	58.9
17.5°	141.6	134.1	120.9	107.1	92.7	78.3	65.2	55.1	50.7	49.5	49.5
20°	152.2	145.3	129.7	114.6	97.1	80.2	65.2	54.5	49.5	47.6	47.0
22.5°	166.0	157.2	139.7	123.4	102.1	81.4	64.5	55.1	49.5	46.4	45.7
25°	181.7	171.6	151.6	132.2	107.1	82.7	65.2	55.8	50.1	46.4	45.7
27.5°	194.2	183.5	164.1	142.2	113.4	85.8	67.7	57.0	50.7	47.0	46.4
30°	208.6	197.3	175.4	152.9	120.9	90.8	72.7	60.8	53.2	48.2	48.2
32.5°	230.5	215.5	191.1	162.9	128.4	96.5	78.3	65.2	55.8	52.0	52.0
35°	266.2	251.2	218.6	182.3	136.6	102.1	82.7	69.5	58.9	53.9	53.9
37.5°	323.2	300.7	264.4	214.2	149.7	106.5	87.7	72.7	60.8	53.9	52.6
40°	356.4	331.4	285.7	238.0	166.0	112.1	91.5	75.2	62.0	54.5	53.9
42.5°	393.4	364.6	305.7	244.3	176.7	125.3	97.1	77.7	63.3	56.4	55.1
45°	432.2	404.7	351.4	277.5	201.7	143.5	106.5	82.7	67.0	58.9	57.6
47.5°	503.0	469.2	400.3	324.5	238.7	172.3	127.2	90.8	71.4	61.4	60.1
50°	662.2	630.8	535.0	421.6	297.6	213.6	159.1	107.7	78.3	63.3	61.4
52.5°	877.7	821.9	713.5	571.3	415.3	299.4	212.4	145.3	89.0	65.2	62.0
55°	1190.9	1128.9	968.5	783.1	568.8	434.8	321.4	218.6	126.5	67.0	61.4
57.5°	1502.2	1427.0	1292.4	1038.6	764.3	554.4	429.7	320.1	184.2	75.2	63.3
60°	1725.2	1633.8	1467.1	1234.7	927.1	652.1	485.5	348.9	204.8	77.1	65.2
62.5°	1856.8	1742.1	1532.9	1255.4	966.0	692.8	508.0	329.5	176.0	75.2	67.7
65°	*1880.6*	*1750.3*	*1532.9*	*1219.7*	*925.9*	*657.1*	*491.1*	*304.5*	*139.1*	*72.0*	*69.5*
67.5°	1744.0	1622.5	1438.9	1120.1	821.3	564.4	422.9	250.6	105.9	69.5	68.9
70°	1431.4	1340.0	1190.2	915.2	666.5	459.2	336.4	192.9	85.8	66.4	65.2
72.5°	1117.0	1032.4	920.2	717.9	515.6	364.0	256.8	151.0	76.4	63.9	63.3
75°	878.9	815.6	722.9	566.9	387.8	275.6	194.8	114.0	68.9	62.6	61.4
77.5°	719.2	677.8	582.0	432.9	289.4	204.8	145.3	90.8	65.8	61.4	60.8
80°	559.4	525.0	464.8	323.9	207.4	154.1	114.6	80.2	63.9	60.8	60.1
82.5°	399.0	387.1	336.4	251.8	172.9	132.2	103.4	77.1	63.3	60.1	59.5
85°	333.3	316.4	278.8	218.6	159.1	125.9	99.0	75.8	63.3	60.1	59.5
87.5°	322.0	307.0	272.5	208.6	149.7	118.4	94.6	73.3	62.0	58.9	58.9
90°	284.4	269.4	243.1	187.9	137.8	110.3	88.3	69.5	59.5	56.4	56.4
92.5°	251.8	243.1	218.0	172.3	132.2	105.9	85.2	67.7	58.3	55.8	55.1
95°	213.0	205.5	186.1	155.4	124.0	100.9	82.7	65.8	57.0	54.5	54.5
97.5°	176.7	170.4	155.4	131.6	107.1	89.6	74.5	62.0	55.1	53.2	53.2
100°	156.0	151.0	137.8	118.4	99.0	83.9	72.0	61.4	54.5	52.0	52.0
102.5°	147.8	142.8	129.7	112.1	94.0	80.2	70.2	60.1	53.9	51.4	50.7
105°	141.6	136.6	124.7	106.5	89.0	76.4	66.4	58.9	52.6	50.7	50.1
107.5°	135.3	129.7	118.4	100.2	84.6	72.7	63.9	57.0	52.0	50.1	50.1
110°	128.4	123.4	112.8	95.2	81.4	70.2	62.6	56.4	52.0	50.1	50.1

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

Scaled Data Report

REPORT NUMBER: P1045764
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	120.9	115.9	105.9	90.2	78.3	68.3	61.4	55.8	52.0	50.1	50.1
115°	112.1	107.7	98.4	85.2	74.5	65.8	59.5	54.5	50.7	49.5	49.5
117.5°	109.6	104.6	95.2	83.3	73.3	63.9	58.3	53.2	50.1	48.9	48.9
120°	115.3	108.4	98.4	87.1	73.3	62.6	57.0	52.6	49.5	48.2	48.2
122.5°	122.8	117.1	105.9	85.2	70.8	61.4	55.8	52.0	48.9	48.2	48.2
125°	115.9	112.1	101.5	78.9	68.3	60.1	55.1	52.0	49.5	48.2	48.2
127.5°	101.5	97.7	89.6	75.2	65.8	58.9	54.5	52.0	50.1	48.2	48.2
130°	95.8	90.8	83.3	72.0	63.3	57.0	53.9	52.0	50.1	47.6	47.0
132.5°	98.4	94.0	82.1	67.7	59.5	54.5	52.0	50.7	47.0	44.5	43.9
135°	92.7	88.3	76.4	64.5	57.6	53.9	51.4	47.6	43.9	40.7	40.7
137.5°	82.7	77.7	70.8	62.0	57.0	55.1	52.0	47.0	42.0	39.5	39.5
140°	82.1	76.4	70.2	61.4	55.8	50.7	47.0	42.0	38.2	37.0	36.3
142.5°	83.3	79.6	70.8	60.8	53.2	47.0	42.6	38.8	36.3	34.5	34.5
145°	96.5	90.8	79.6	66.4	57.6	50.1	43.9	38.8	35.1	31.9	31.3
147.5°	99.6	94.0	83.9	72.7	61.4	52.0	43.2	37.0	31.9	29.4	28.8
150°	83.3	79.6	73.9	65.2	55.1	45.7	38.2	32.6	29.4	28.2	27.6
152.5°	63.3	62.0	58.3	52.0	45.1	38.8	33.8	30.7	28.8	28.2	27.6
155°	53.9	53.2	49.5	44.5	38.8	34.5	31.3	29.4	28.2	28.2	27.6
157.5°	50.1	48.9	45.7	40.7	35.7	33.2	30.1	28.8	28.2	28.2	28.2
160°	42.0	40.7	38.2	36.3	33.2	31.3	29.4	28.8	28.2	28.2	27.6
162.5°	37.6	36.3	35.1	33.2	32.6	31.9	31.3	30.1	29.4	28.8	28.8
165°	35.7	35.1	33.2	32.6	32.6	33.2	33.2	31.9	30.7	29.4	29.4
167.5°	35.1	34.5	33.2	32.6	33.8	34.5	35.1	33.8	32.6	30.7	30.1
170°	35.1	35.1	34.5	33.8	34.5	35.1	35.7	35.7	35.1	33.8	33.8
172.5°	35.1	35.7	35.1	35.1	35.1	35.1	35.1	36.3	36.3	35.7	35.7
175°	37.6	37.6	35.7	35.1	35.7	36.3	37.0	36.3	36.3	37.0	37.0
177.5°	34.5	35.7	38.2	38.8	40.1	40.1	38.8	38.2	36.3	35.7	35.7
180°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3

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

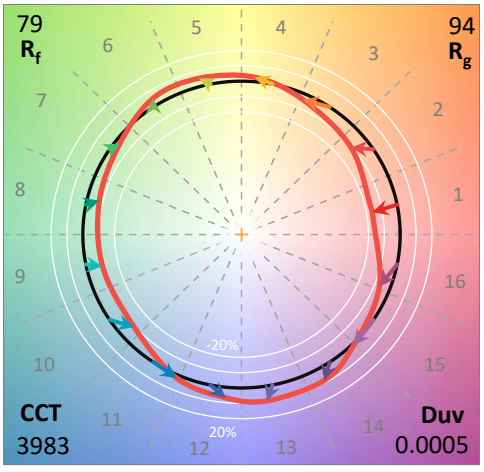
Test Information

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

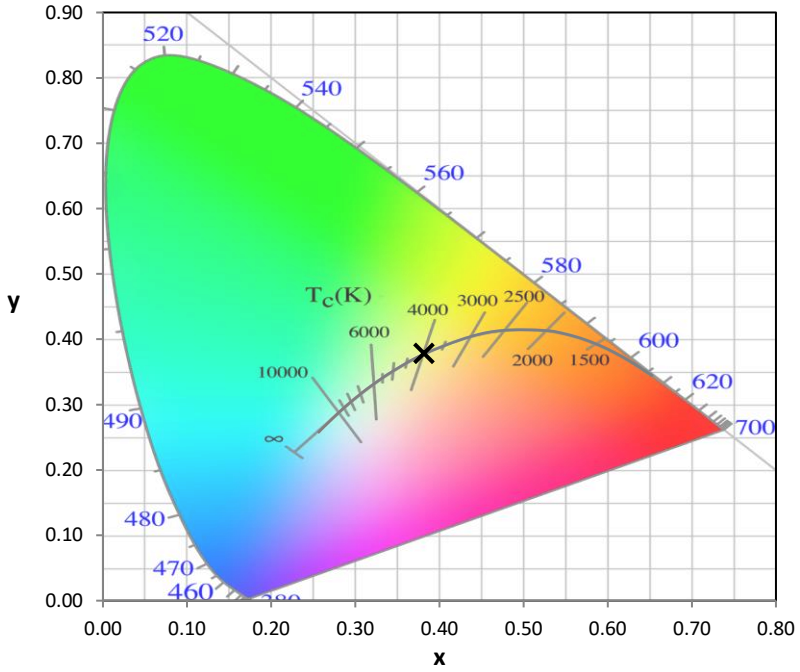
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

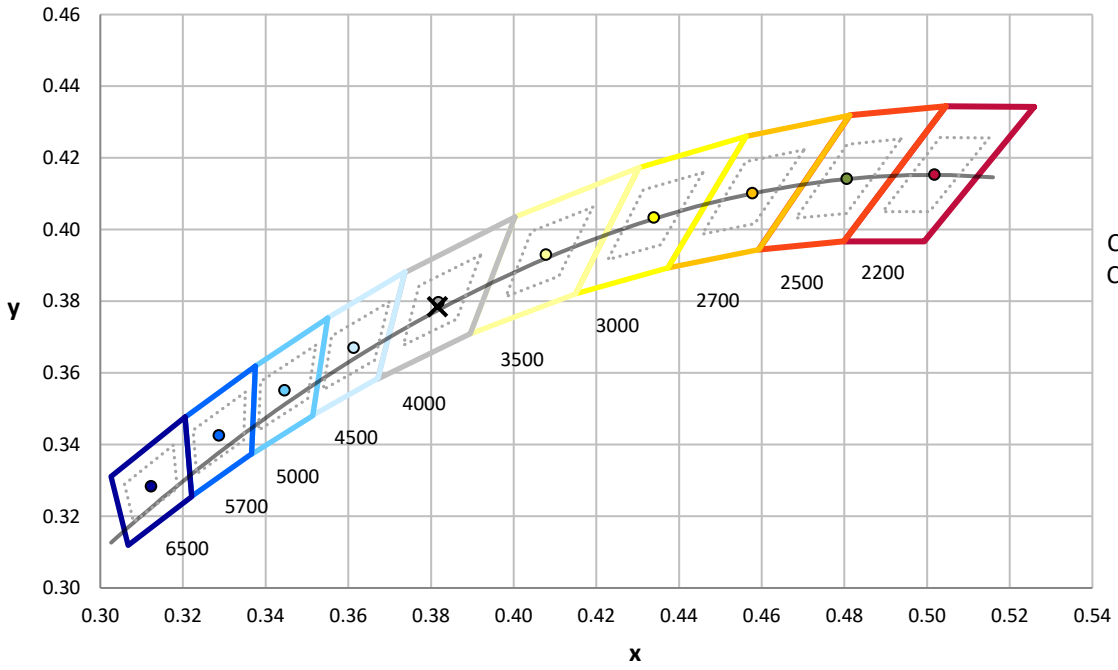
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

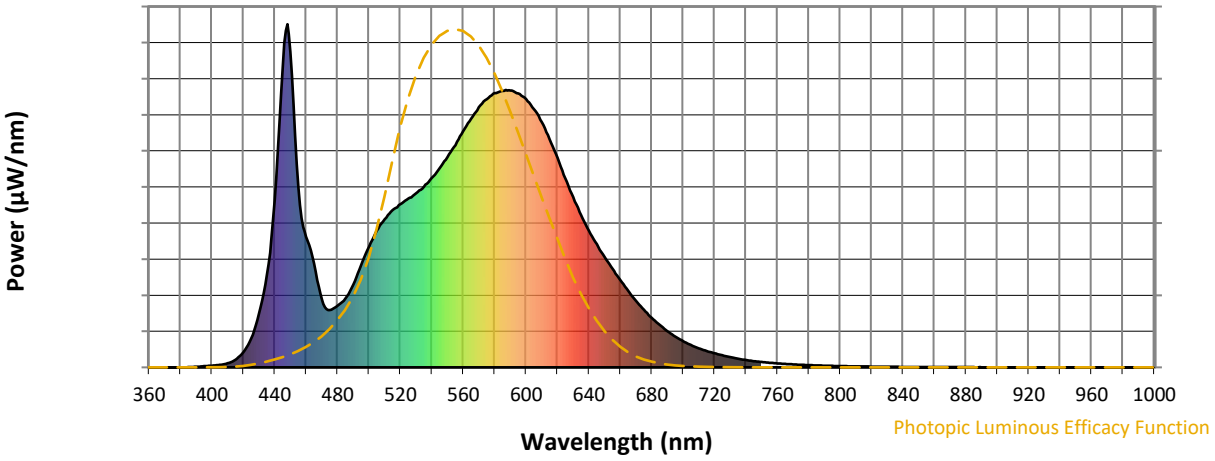


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

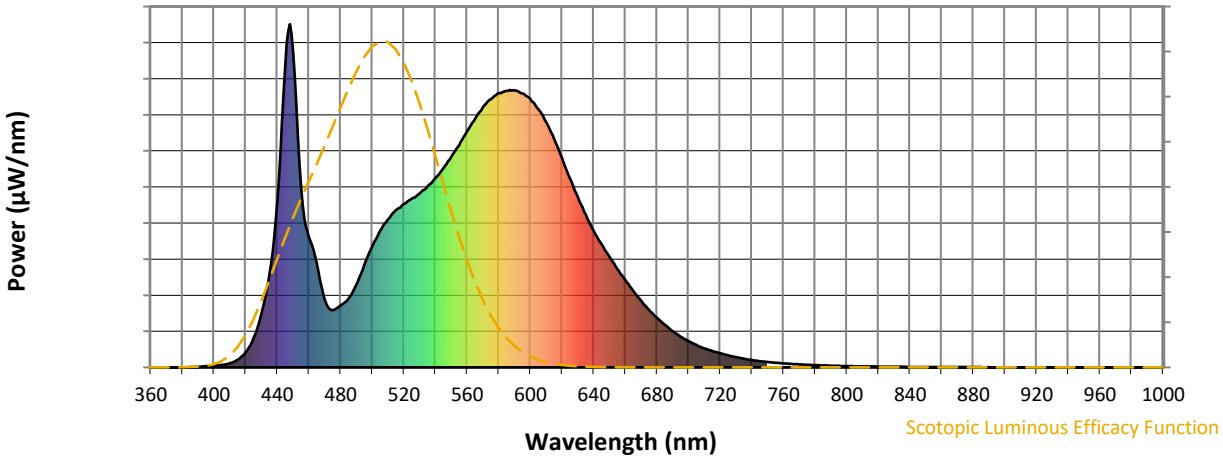


Photopic Lumens: NR

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

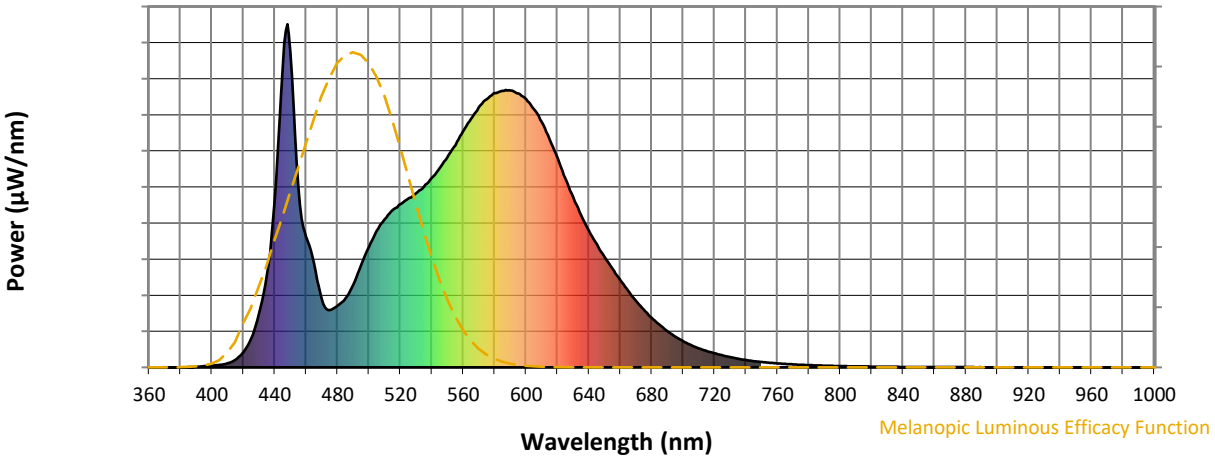


Scotopic Lumens: NR **S/P: 1.61**

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			

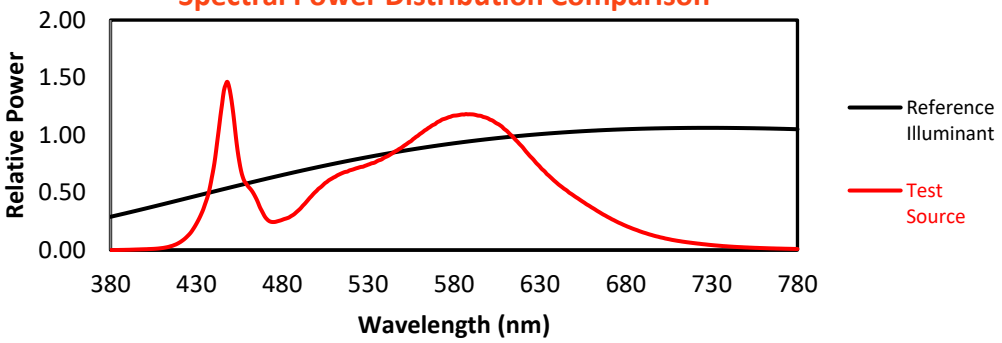
REPORT NUMBER: SP1-2501-332-11

TM-30-18

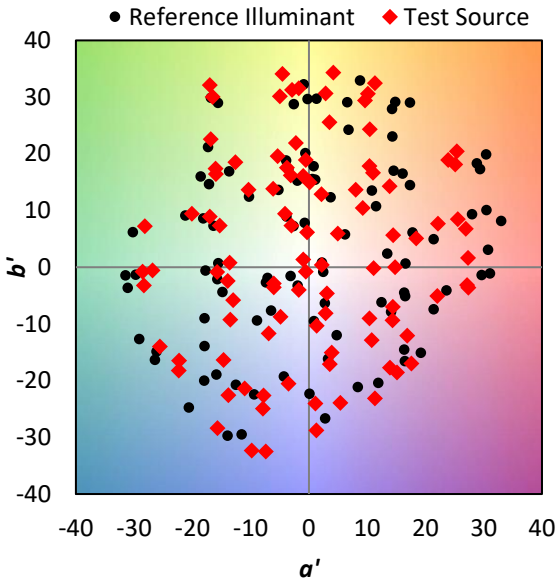
Summary

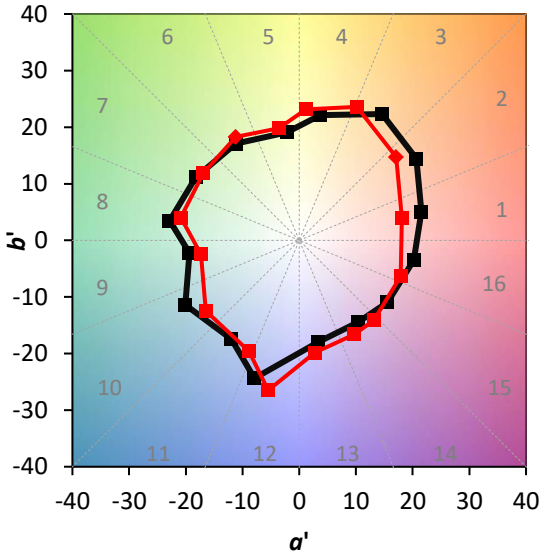
R_f = 79
R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

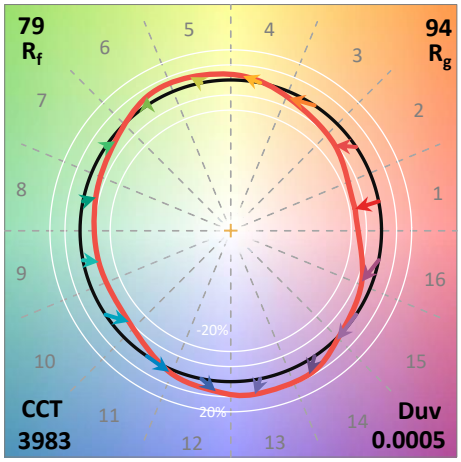
Spectral Power Distribution Comparison

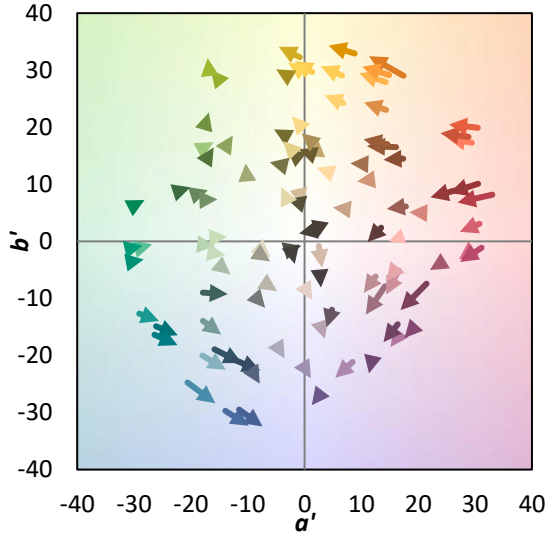


Color Vector Graphics







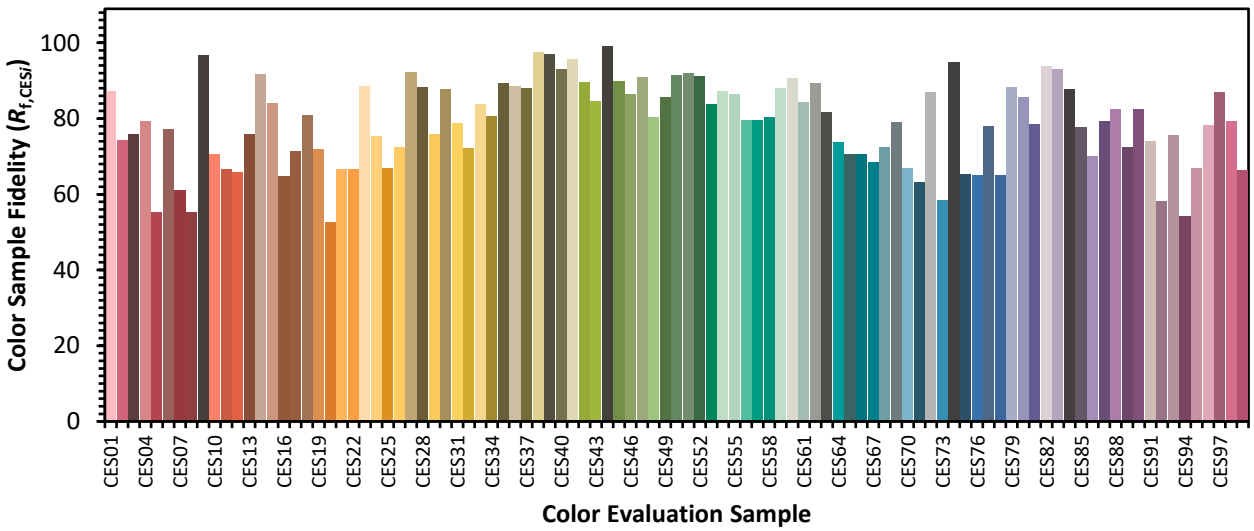


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

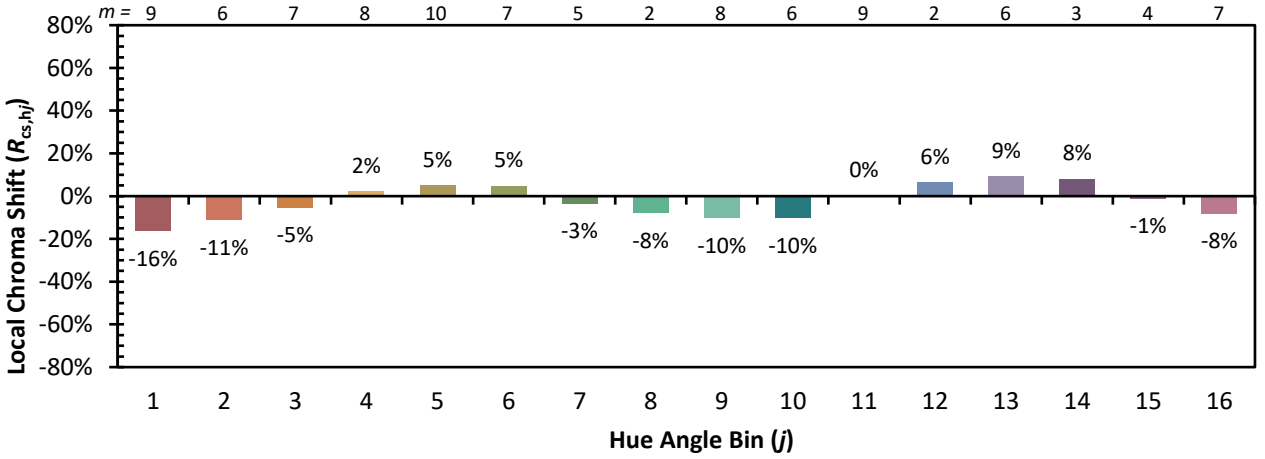
CES01 = 85	CES26 = 72	CES51 = 92	CES76 = 65
CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 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	

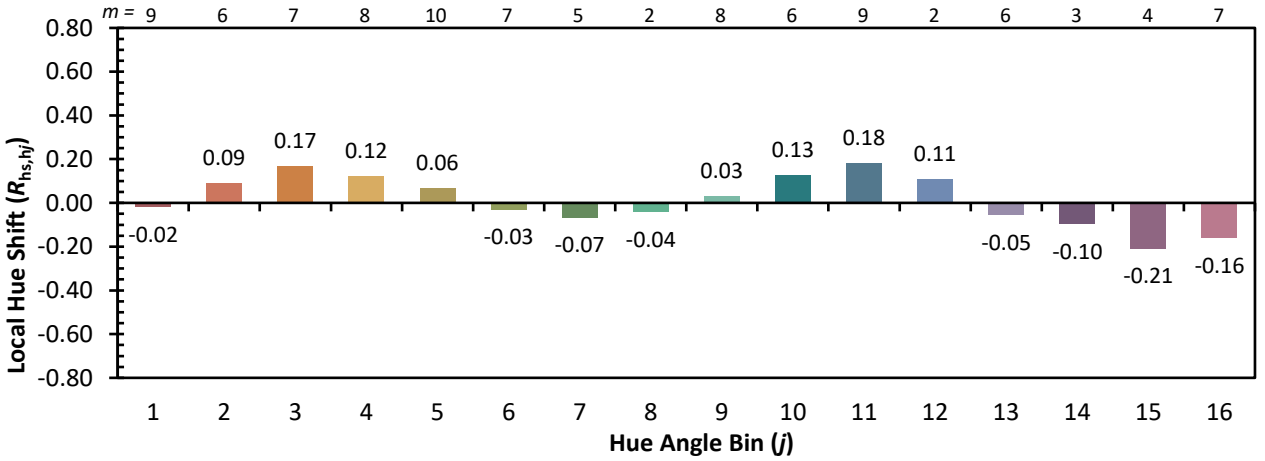


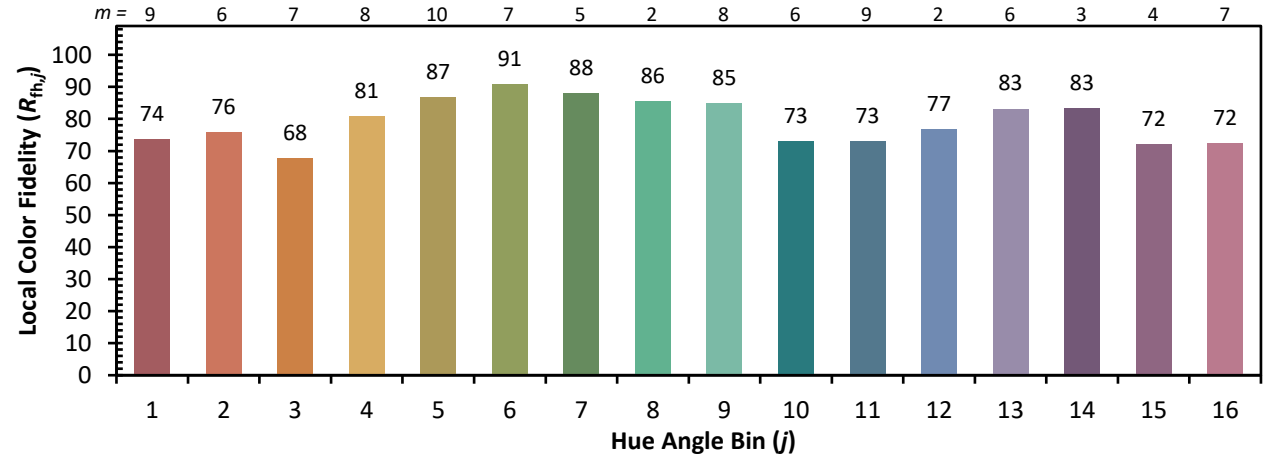
REPORT NUMBER: SP1-2501-332-11

TM-30-18

Color Rendition by Hue-Angle Bin



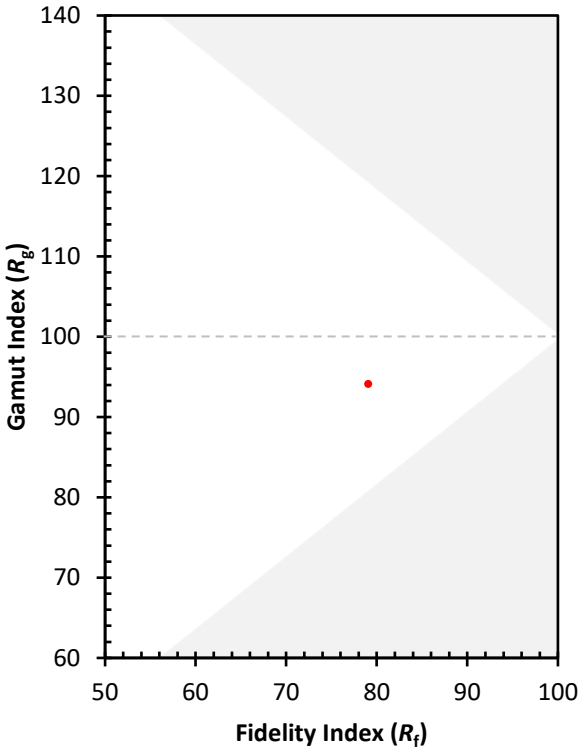


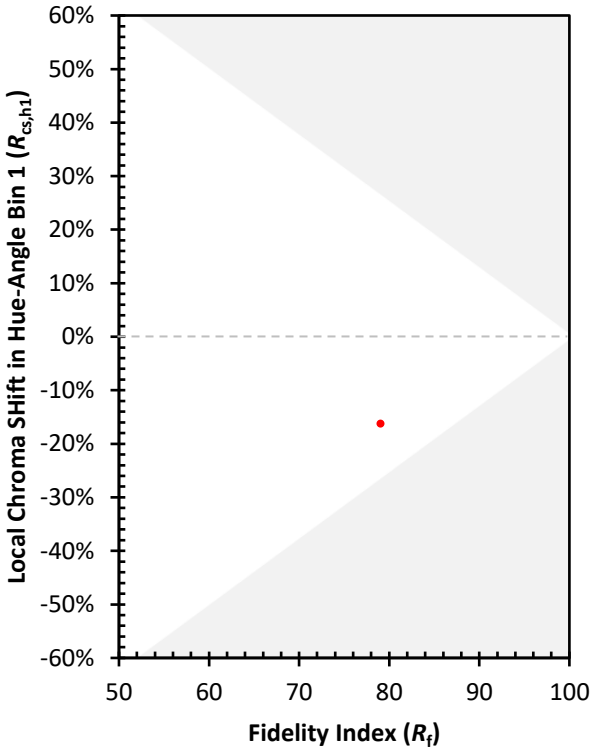


REPORT NUMBER: SP1-2501-332-11

TM-30-18

Measure Comparisons





(END OF REPORT)