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: P1046396

Luminaire Tested: **FFX-CLB-30-740-U-FR-T4**

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:	P1046396
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-740-U-FR-T4
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5112.6 lumens
Efficiency:	N/A
Efficacy:	167.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G2

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

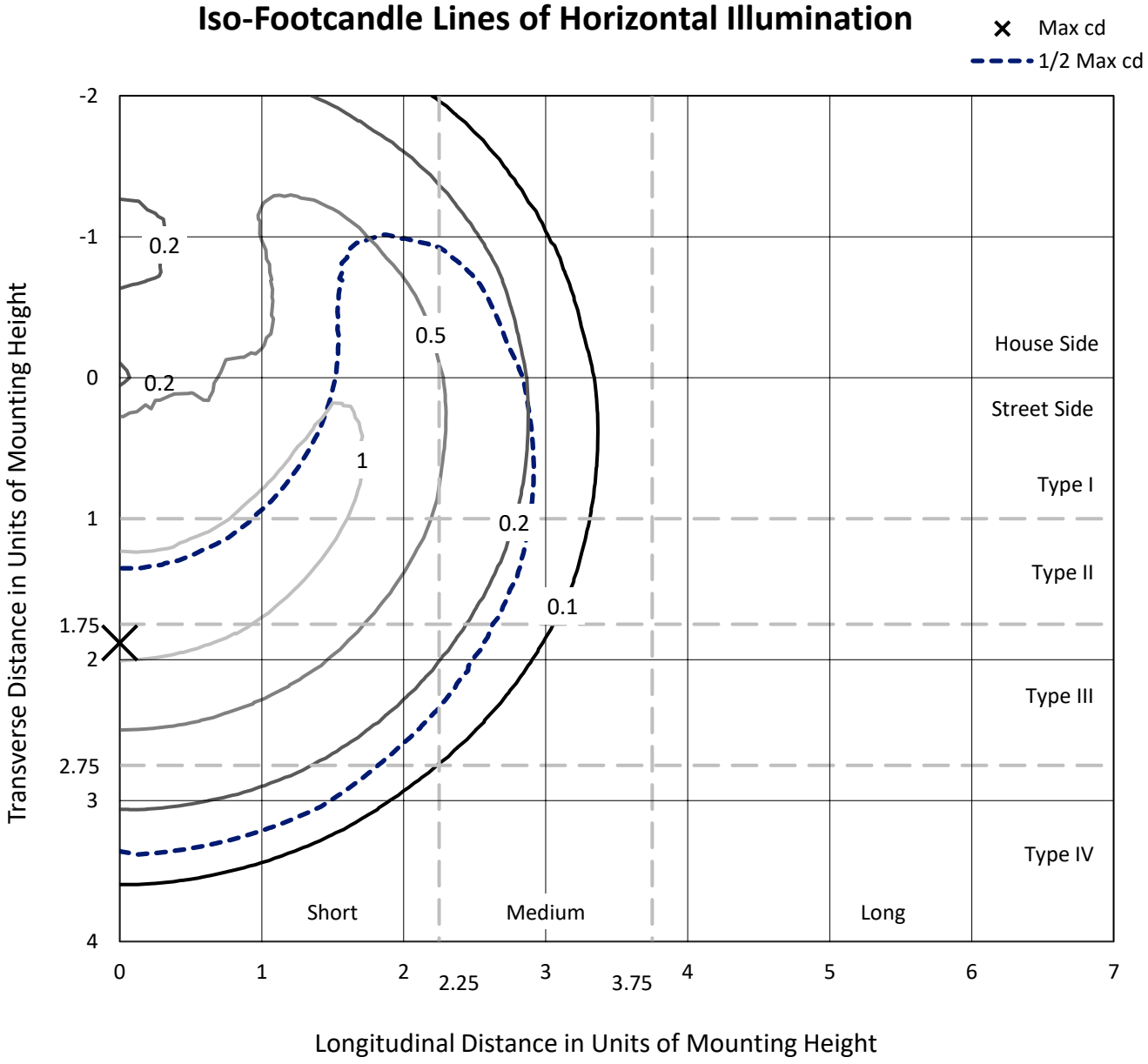


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046396
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4

Iso-Footcandle Lines of Horizontal Illumination



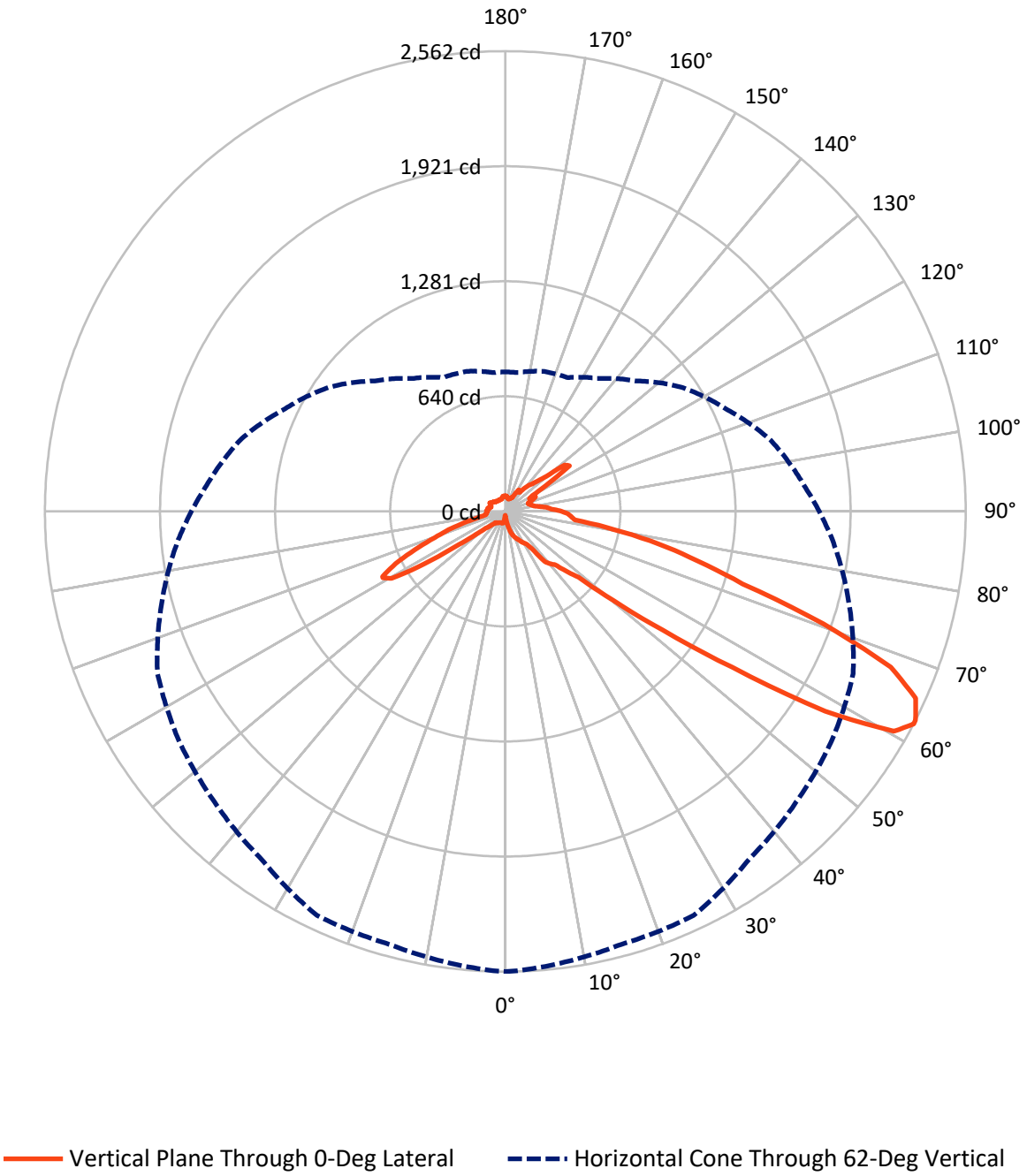
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046396
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

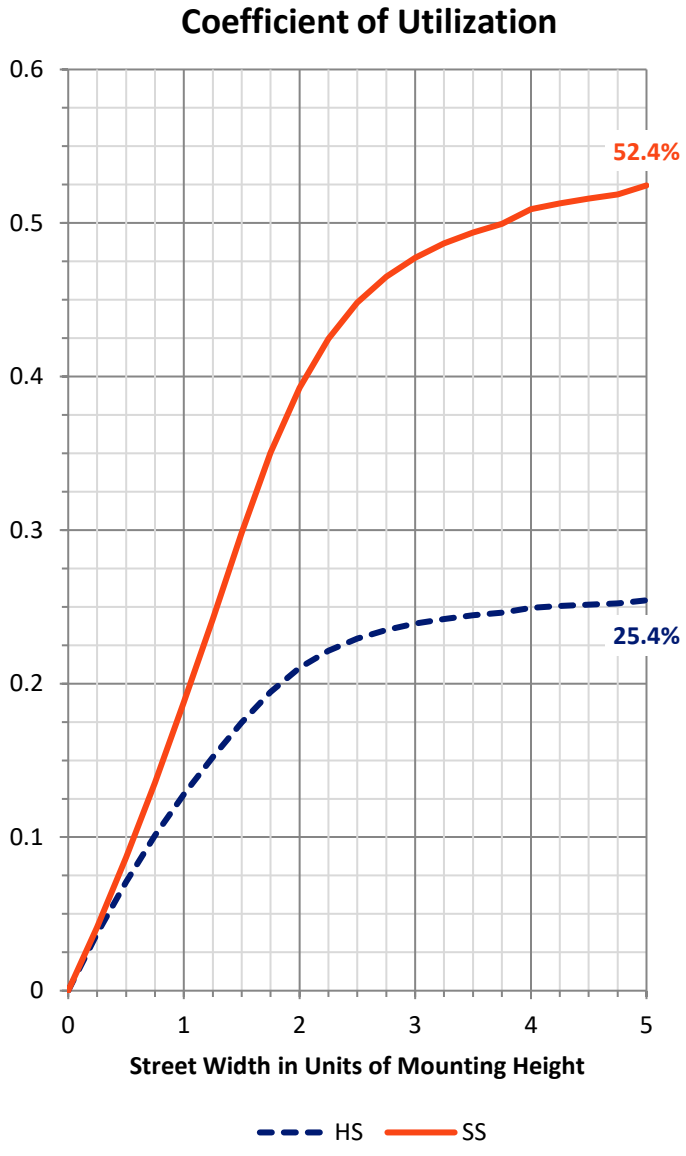
REPORT NUMBER: P1046396
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1345.2	384.4	1729.6
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	2792.7	590.4	3383.0
	% Fixture	54.6	11.5	66.2
Total	Lumens	4137.9	974.7	5112.6
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	28.4	0.6
20°-30°	61.4	1.2
30°-40°	122.9	2.4
40°-50°	269.3	5.3
50°-60°	942.8	18.4
60°-70°	1577.9	30.9
70°-80°	819.0	16.0
80°-90°	311.0	6.1
90°-100°	198.4	3.9
100°-110°	131.5	2.6
110°-120°	137.3	2.7
120°-130°	229.5	4.5
130°-140°	138.1	2.7
140°-150°	73.0	1.4
150°-160°	38.4	0.8
160°-170°	20.8	0.4
170°-180°	7.8	0.2
0°-90°	4137.9	80.9
0°-180°	5112.6	100.0



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

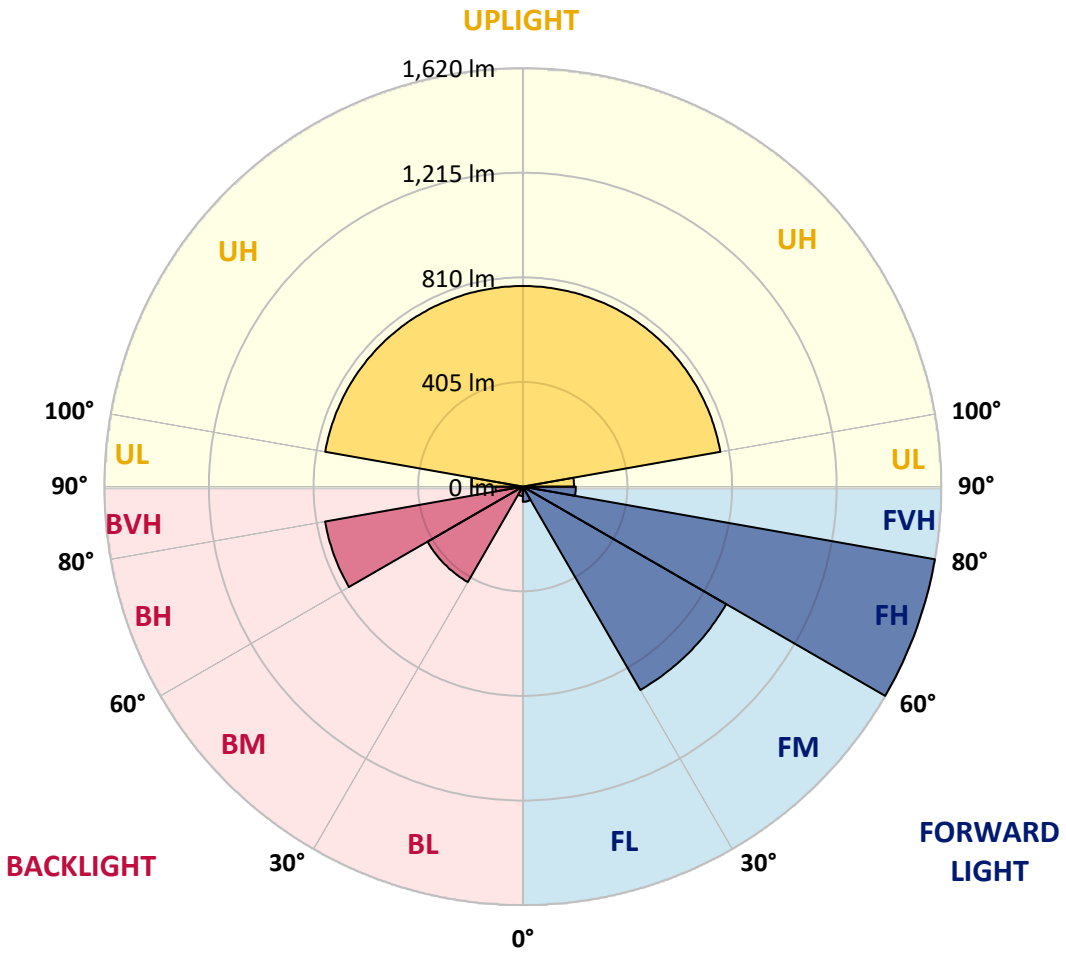
Scaled Data Report

REPORT NUMBER: P1046396
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	58.9	1.2			
FM	(30°-60°)	908.9	17.8			
FH	(60°-80°)	1619.7	31.7			G1/1800
FVH	(80°-90°)	205.2	4.0			G2/225
BL	(0°-30°)	36.0	0.7	B0/110		
BM	(30°-60°)	426.1	8.3	B1/1000		
BH	(60°-80°)	777.2	15.2	B2/1000		G2/1000
BVH	(80°-90°)	105.9	2.1			G2/225
UL	(90°-100°)	198.4	3.9		U3/500	
UH	(100°-180°)	776.4	15.2		U4/1000	

BUG Rating: B2-U4-G2
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046396
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
2.5°	32.2	31.5	31.5	32.8	34.5	34.5	34.8	33.8	33.8	33.5	33.8
5°	46.8	45.5	46.2	46.5	47.2	47.8	48.5	48.5	47.2	46.2	43.6
7.5°	65.4	65.0	65.7	65.4	64.7	66.3	67.3	69.6	70.2	66.0	60.8
10°	84.2	83.3	82.9	83.3	83.6	82.6	84.6	86.2	83.9	79.0	74.5
12.5°	104.7	104.7	104.7	104.4	104.4	104.1	103.4	103.1	100.8	95.3	88.1
15°	127.5	127.8	128.5	128.1	126.5	123.9	122.0	120.3	119.0	115.1	106.0
17.5°	141.5	140.8	141.5	141.2	140.5	138.9	135.3	132.0	127.8	122.3	115.5
20°	154.5	154.2	153.8	153.8	153.2	151.2	149.0	143.8	138.2	132.4	124.6
22.5°	164.6	163.9	164.6	164.2	163.9	163.3	159.4	154.8	148.6	142.1	134.0
25°	177.6	177.3	177.6	176.6	176.6	175.6	173.3	167.5	160.7	153.5	143.4
27.5°	191.9	190.9	191.9	191.6	190.3	187.7	185.7	179.2	170.7	163.9	154.8
30°	203.9	203.9	204.6	202.6	203.9	201.6	197.1	189.9	182.8	174.0	164.6
32.5°	216.6	216.6	216.0	215.6	217.3	214.3	209.1	200.7	194.8	185.7	177.6
35°	252.1	249.5	253.7	253.4	261.5	255.6	245.9	234.5	225.4	213.7	202.9
37.5°	353.9	352.5	350.6	338.2	323.9	326.2	327.8	315.1	303.8	282.6	257.6
40°	382.8	382.5	382.1	375.0	378.9	368.5	363.3	356.8	354.8	327.2	293.7
42.5°	406.5	402.6	406.5	419.5	440.0	432.9	406.5	372.7	366.5	340.2	326.5
45°	470.9	468.3	474.8	478.7	472.2	460.5	468.0	443.3	426.4	389.0	363.9
47.5°	548.0	545.4	551.6	554.8	568.2	555.8	550.0	528.8	500.5	465.1	432.6
50°	778.0	748.7	772.4	764.3	767.5	739.9	751.0	720.7	695.3	637.1	578.3
52.5°	1098.3	1088.5	1072.3	1054.1	1068.1	1038.5	1047.6	1014.7	968.9	901.2	814.4
55°	1531.8	1499.0	1509.4	1546.8	1539.0	1486.0	1476.9	1396.9	1314.6	1213.4	1122.0
57.5°	2099.0	2082.8	2063.9	2038.9	2014.5	1959.5	1932.5	1843.1	1715.3	1574.1	1447.0
60°	2485.1	2472.1	2463.6	2387.2	2342.3	2231.7	2206.7	2144.6	2030.7	1877.2	1701.9
62°	2561.8	2559.9	2542.7	2495.2	2481.8	2364.8	2288.6	2219.4	2135.8	1980.0	1827.5
62.5°	2561.2	2557.3	2547.2	2507.5	2493.9	2384.3	2301.7	2228.2	2144.9	1992.0	1842.1
65°	2509.2	2500.4	2495.8	2472.1	2465.9	2401.5	2291.9	2216.1	2146.2	1977.7	1852.8
67.5°	2313.4	2323.8	2324.4	2300.7	2280.2	2241.8	2137.1	2071.4	2023.3	1847.6	1729.9
70°	1877.9	1863.9	1849.6	1860.6	1851.5	1830.7	1747.5	1664.9	1604.7	1512.6	1401.1
72.5°	1380.3	1402.4	1402.1	1405.3	1406.9	1354.6	1317.5	1270.0	1237.5	1157.8	1078.1
75°	1106.4	1108.4	1102.2	1079.4	1055.0	1024.8	1031.3	1027.1	1011.5	927.2	848.2
77.5°	873.6	852.1	860.9	825.1	793.6	793.2	805.9	818.3	825.1	757.5	696.3
80°	615.0	610.1	602.3	605.6	579.6	586.4	592.6	601.0	587.7	547.7	519.4
82.5°	388.3	384.1	377.9	407.8	432.9	427.4	407.5	375.6	368.2	371.1	364.6
85°	367.2	366.9	361.3	358.4	354.5	345.7	350.6	357.4	353.5	331.4	302.8
87.5°	346.7	345.7	341.5	339.9	332.4	331.4	336.0	338.6	340.2	320.4	296.3
90°	303.8	299.9	296.0	299.2	298.2	298.9	300.2	299.5	300.2	276.8	266.7
92.5°	253.4	252.4	249.5	251.1	253.4	262.5	258.6	252.4	251.4	242.0	232.2
95°	231.2	231.9	228.3	230.6	231.2	231.2	228.6	225.7	223.4	216.0	207.2
97.5°	191.6	188.6	187.3	189.0	189.6	187.3	185.7	180.8	180.5	173.0	168.8
100°	162.9	162.3	161.6	163.6	164.2	163.3	163.6	160.7	160.3	156.1	151.6
102.5°	152.2	151.9	151.6	153.2	153.8	153.2	152.2	149.3	149.9	145.4	142.1
105°	143.8	143.8	143.4	144.4	142.5	141.5	140.2	140.2	140.8	137.2	132.4
107.5°	134.3	134.0	134.3	134.0	131.7	130.7	130.4	129.4	131.7	129.8	124.6

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

Scaled Data Report

REPORT NUMBER: P1046396
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*135.9*	135.9	135.6	132.0	130.7	129.1	128.5	130.1	129.4	126.2	122.9
112.5°	*166.5*	164.6	165.9	161.0	158.7	160.0	160.7	162.0	164.6	159.4	154.5
115°	*186.0*	186.4	189.6	189.6	184.7	187.0	187.0	186.7	189.3	185.4	180.5
117.5°	*151.9*	153.8	164.2	157.7	159.4	160.7	152.5	149.6	149.0	149.9	160.3
120°	*175.0*	172.4	182.1	161.6	155.5	155.5	161.3	168.8	160.7	148.3	151.6
122.5°	*286.2*	286.5	286.9	295.6	294.7	297.3	292.7	286.9	269.9	270.3	255.0
125°	*438.1*	433.9	433.9	430.0	429.3	423.1	430.9	435.8	422.8	400.7	376.6
127.5°	*419.2*	428.3	425.1	415.3	405.9	402.6	411.7	427.0	419.5	400.0	377.9
130°	*297.6*	299.9	299.2	309.6	312.2	309.0	312.2	301.2	302.8	307.3	295.6
132.5°	*249.5*	248.2	252.7	267.0	272.5	266.0	256.9	248.8	249.1	258.9	258.2
135°	*215.0*	214.0	217.3	217.9	224.1	218.9	210.7	210.7	212.7	215.0	214.0
137.5°	*194.2*	192.9	193.8	186.4	178.9	178.6	185.1	188.6	186.7	184.4	181.8
140°	*167.2*	167.8	166.2	160.0	156.8	157.4	161.6	167.2	165.5	160.7	156.8
142.5°	*133.0*	131.7	133.7	138.2	144.7	144.7	138.2	131.4	131.1	133.3	136.6
145°	*131.1*	130.4	130.7	129.8	131.1	129.8	127.8	125.9	123.6	122.0	120.7
147.5°	*142.1*	142.1	141.8	140.2	138.9	136.6	137.2	139.5	140.8	139.5	137.6
150°	*115.5*	116.4	116.4	116.1	114.8	115.8	117.1	117.7	119.0	119.0	117.1
152.5°	*88.8*	88.5	89.4	88.1	87.8	88.5	90.1	91.4	91.7	91.7	89.1
155°	*84.6*	83.9	84.6	83.9	83.3	83.9	85.2	85.9	86.5	85.5	82.9
157.5°	*79.0*	79.0	79.0	78.4	78.7	78.7	79.4	79.7	80.0	79.7	79.0
160°	*74.8*	74.8	75.1	74.8	74.8	75.5	75.1	74.8	74.8	74.5	74.2
162.5°	*72.2*	72.2	72.2	72.2	71.9	71.9	72.2	71.9	71.6	71.2	71.9
165°	*70.9*	70.6	70.6	70.6	70.9	70.6	70.6	70.6	70.2	71.2	72.5
167.5°	*73.5*	72.9	73.2	73.5	73.5	73.2	73.2	73.2	73.8	74.8	75.8
170°	*77.1*	76.8	76.8	77.1	77.1	76.8	76.8	76.8	77.1	77.4	77.7
172.5°	*80.0*	79.7	79.7	79.7	79.4	79.0	79.0	79.0	79.0	79.0	79.4
175°	*82.9*	82.9	82.9	82.9	82.6	82.3	82.3	82.3	82.3	82.3	82.3
177.5°	*86.2*	85.9	86.2	85.9	85.9	85.9	85.5	85.2	84.9	84.9	84.9
180°	*85.5*	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5

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

Scaled Data Report

REPORT NUMBER: P1046396
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
2.5°	33.2	32.8	30.9	29.3	28.0	26.7	24.7	23.1	21.8	21.5	21.5
5°	42.9	42.3	40.3	37.7	36.4	34.5	32.5	31.2	29.6	28.9	29.3
7.5°	59.2	59.5	60.2	61.5	60.8	55.3	49.1	47.8	49.1	51.1	52.0
10°	73.5	72.5	72.2	76.4	75.5	67.3	59.2	56.6	58.9	63.1	65.0
12.5°	85.2	83.3	82.9	83.6	79.7	70.9	64.1	61.1	62.4	65.7	65.4
15°	102.4	99.5	95.3	92.7	87.8	81.6	73.2	68.3	68.3	68.3	68.0
17.5°	112.5	109.3	101.1	93.7	87.5	82.9	77.4	72.9	68.0	67.3	67.0
20°	121.3	116.4	107.7	99.5	91.7	85.2	77.4	71.9	67.6	67.0	66.7
22.5°	128.8	124.2	114.8	105.0	95.3	87.8	79.4	73.5	69.3	68.0	67.6
25°	138.9	134.0	123.3	111.9	100.5	91.1	83.3	76.4	71.2	68.6	68.6
27.5°	149.0	143.4	131.4	119.7	107.3	95.6	86.8	80.0	73.5	69.9	69.6
30°	158.7	152.5	139.5	126.2	113.8	101.5	91.4	83.6	76.4	72.5	72.2
32.5°	172.4	165.2	149.9	133.3	121.0	107.7	96.3	87.2	79.7	75.8	75.1
35°	199.0	190.9	173.7	152.2	132.7	114.8	101.1	89.1	82.0	77.7	77.4
37.5°	248.5	239.0	215.0	188.6	162.0	135.0	109.9	91.7	83.6	79.7	79.0
40°	278.1	259.5	234.2	213.4	193.2	167.2	135.0	106.4	86.8	82.3	81.6
42.5°	316.4	297.3	260.5	220.8	195.1	174.6	151.9	133.3	105.4	89.1	86.2
45°	352.9	338.2	306.7	264.4	225.4	189.9	161.6	143.8	125.9	107.3	104.4
47.5°	414.0	392.6	350.9	307.7	268.0	228.3	194.8	160.0	136.9	125.9	125.2
50°	570.8	531.8	471.6	419.9	345.1	284.3	244.6	198.1	168.5	151.2	145.7
52.5°	773.4	732.7	664.1	589.3	506.4	428.0	350.3	283.6	235.5	205.2	206.2
55°	1075.2	1034.6	933.7	805.6	691.8	610.1	526.9	445.9	368.5	323.9	318.4
57.5°	1393.6	1357.2	1271.0	1114.6	933.4	782.5	683.6	626.4	586.7	538.3	538.3
60°	1627.1	1566.6	1469.1	1311.3	1150.7	952.3	825.4	743.5	736.3	727.9	734.4
62°	*1746.5*	*1668.4*	*1529.2*	*1352.0*	*1202.7*	*1026.1*	*902.8*	*821.5*	*807.2*	*775.3*	*776.0*
62.5°	1766.7	1680.5	1539.3	1352.0	1207.3	1032.6	911.3	831.9	812.1	773.1	773.7
65°	1786.8	1683.1	1546.8	1330.2	1181.6	1010.2	916.8	813.4	761.4	696.0	676.8
67.5°	1671.0	1564.7	1447.9	1236.9	1082.4	916.8	813.4	709.7	624.8	558.4	548.0
70°	1357.2	1273.6	1183.5	1022.2	887.2	753.2	665.4	571.8	487.2	414.0	418.6
72.5°	1030.0	951.9	869.3	766.9	683.0	592.9	515.2	439.7	369.5	323.9	332.4
75°	797.8	745.8	687.2	612.7	549.0	465.7	377.3	310.3	262.8	235.1	236.8
77.5°	656.0	602.0	554.2	485.9	425.4	340.2	255.0	197.7	170.1	157.7	154.5
80°	504.4	465.1	422.8	361.7	295.0	229.3	171.4	144.7	126.5	117.4	113.8
82.5°	352.2	327.8	292.4	248.2	209.8	185.7	160.7	138.2	119.4	110.9	107.0
85°	290.1	277.1	257.6	232.5	209.8	183.1	155.1	132.4	116.1	109.6	106.0
87.5°	282.6	273.8	251.7	225.1	197.7	170.4	142.1	121.0	110.6	106.4	103.1
90°	259.2	249.1	233.5	207.2	182.8	153.5	130.4	117.7	109.9	105.0	101.5
92.5°	226.0	220.5	206.2	187.3	170.4	151.6	135.0	123.6	115.5	109.6	106.0
95°	201.0	194.5	186.4	171.1	157.1	141.8	126.5	115.8	107.3	101.1	98.2
97.5°	165.2	160.7	152.9	142.8	132.4	120.0	109.3	102.1	96.6	93.7	91.7
100°	149.9	147.0	142.5	135.3	126.8	118.1	110.3	106.4	104.1	102.1	101.1
102.5°	138.9	135.6	132.0	124.6	118.1	110.3	105.0	101.8	98.9	95.6	95.0
105°	129.1	126.5	121.6	115.5	109.0	101.5	95.3	93.3	90.7	87.8	87.5
107.5°	121.6	119.0	114.8	108.3	102.4	95.9	90.4	87.5	84.6	82.9	82.6

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

Scaled Data Report

REPORT NUMBER: P1046396
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	121.0	119.0	114.5	109.0	104.4	97.9	91.7	90.7	87.5	83.6	83.3
112.5°	150.9	144.7	135.9	126.8	119.0	112.5	104.7	96.9	90.4	86.5	85.9
115°	175.0	168.8	158.1	144.7	132.4	118.4	105.0	95.3	91.7	90.7	92.0
117.5°	164.6	151.6	133.3	125.2	114.5	107.0	101.8	99.5	93.7	95.3	96.9
120°	158.1	149.3	133.3	132.0	127.2	118.7	106.7	104.1	100.8	98.2	97.9
122.5°	254.0	245.5	227.3	199.7	169.8	149.6	142.1	126.5	107.7	93.3	91.1
125°	360.0	346.4	310.6	280.0	240.3	197.7	159.4	126.5	100.8	87.2	85.5
127.5°	367.2	351.9	320.7	279.4	229.0	176.9	137.2	113.5	96.3	87.2	85.5
130°	286.2	276.4	253.4	214.7	179.9	149.0	126.5	107.3	91.7	84.9	83.9
132.5°	253.0	244.2	211.4	179.2	156.1	132.4	113.5	95.3	82.0	77.4	76.8
135°	209.1	199.4	177.6	157.7	140.8	121.6	102.8	87.2	77.7	75.5	75.1
137.5°	178.6	174.0	157.7	143.8	128.5	111.9	96.3	84.2	78.4	76.4	76.1
140°	154.2	153.2	143.1	130.7	115.5	97.9	85.9	78.7	76.4	75.5	75.1
142.5°	136.3	135.0	123.9	109.6	95.9	86.8	82.3	80.0	78.1	75.5	74.8
145°	118.1	115.8	109.0	102.8	98.5	95.6	91.4	84.2	76.8	72.9	72.5
147.5°	134.3	130.4	122.9	114.2	105.0	95.6	86.8	79.4	73.2	70.9	70.6
150°	112.9	112.5	107.7	100.8	94.0	85.5	79.0	74.2	71.6	71.2	71.2
152.5°	87.5	87.5	87.5	85.9	82.6	78.1	73.2	70.2	70.2	71.6	71.9
155°	82.3	82.6	82.9	82.3	79.7	75.5	71.2	69.9	70.2	71.6	71.9
157.5°	78.4	78.4	78.7	78.1	76.8	73.8	70.9	69.6	69.9	70.6	70.9
160°	73.8	73.8	74.2	74.2	72.9	71.9	70.6	69.6	69.6	69.9	70.2
162.5°	72.2	72.2	72.2	72.2	71.9	71.9	71.9	71.9	71.6	71.6	71.6
165°	72.9	72.9	71.9	71.6	72.2	73.2	74.8	75.1	73.5	73.2	73.2
167.5°	76.1	76.1	75.1	74.5	75.5	76.4	78.7	79.4	78.1	76.8	76.8
170°	78.1	78.1	78.1	78.4	78.7	79.7	81.0	81.6	81.3	81.0	81.0
172.5°	79.4	79.4	80.0	80.7	81.6	82.3	82.9	83.6	84.2	84.2	84.6
175°	82.0	82.3	82.9	83.3	83.9	84.6	85.2	85.9	86.2	86.2	86.2
177.5°	84.6	84.6	84.6	84.9	85.2	85.5	85.9	86.2	86.2	86.5	86.8
180°	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5

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: SP1-2501-332-11

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

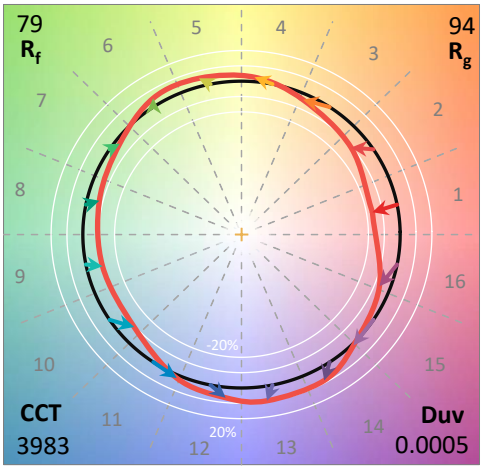
Test Information

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

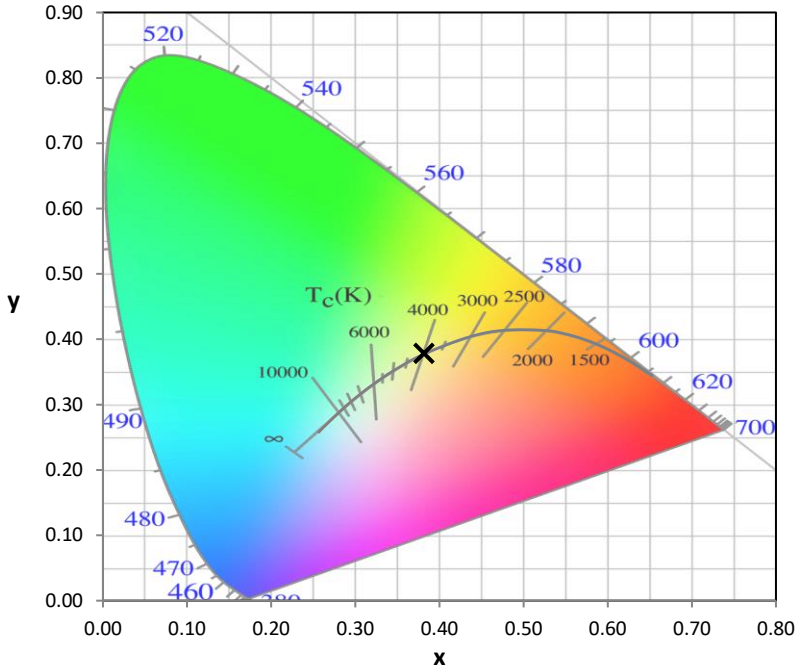
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

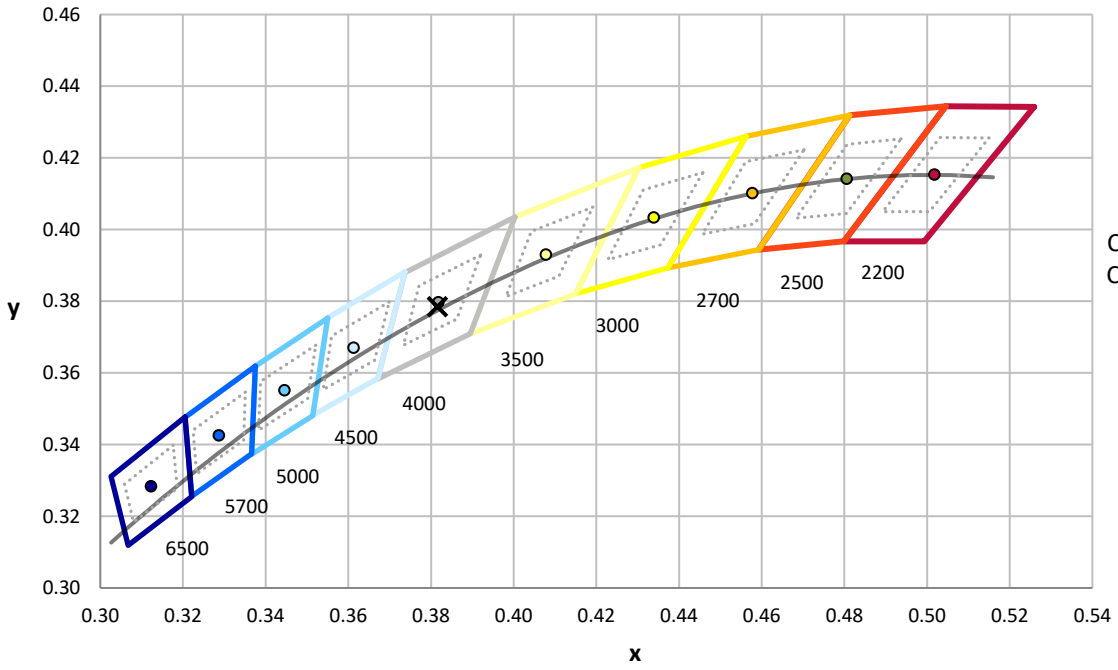
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

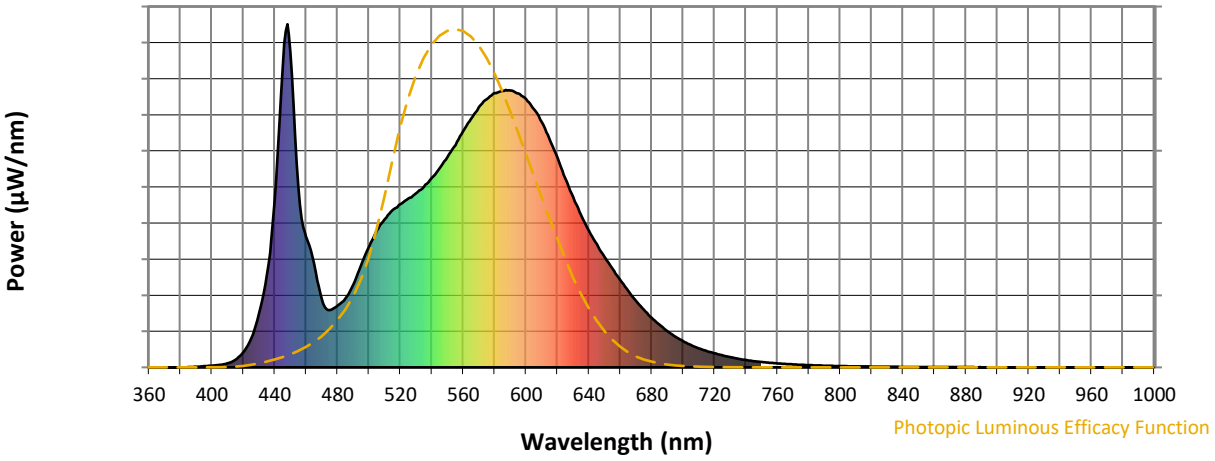


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

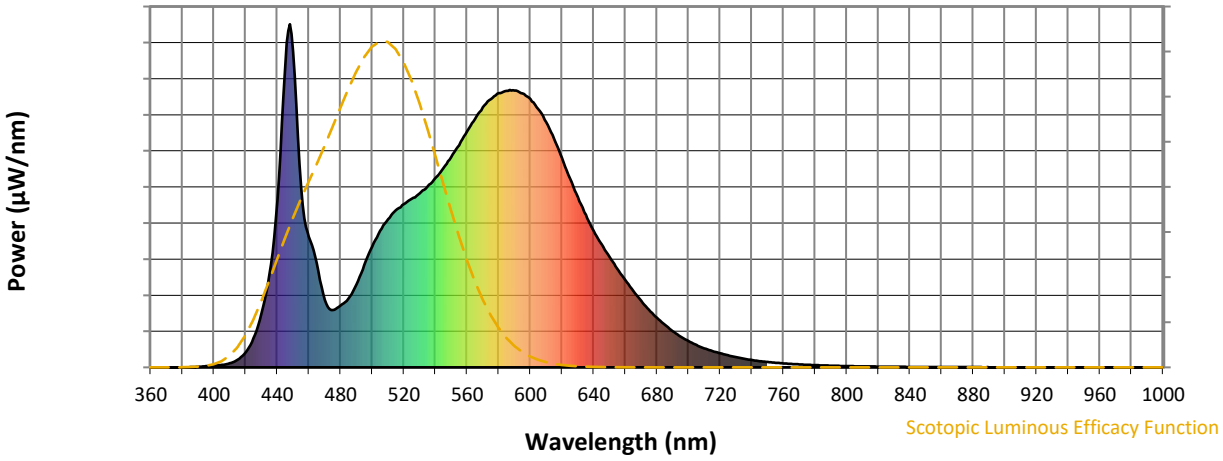


Photopic Lumens: NR

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

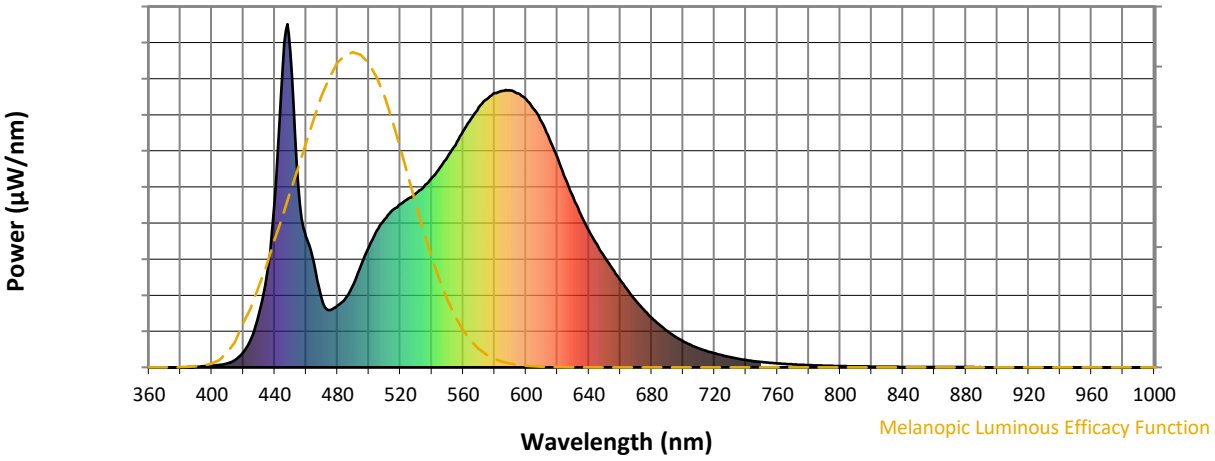


Scotopic Lumens: NR **S/P: 1.61**

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			

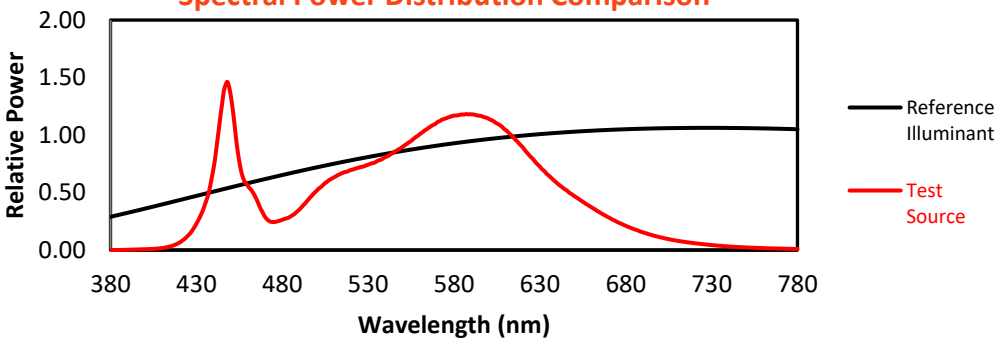
REPORT NUMBER: SP1-2501-332-11

TM-30-18

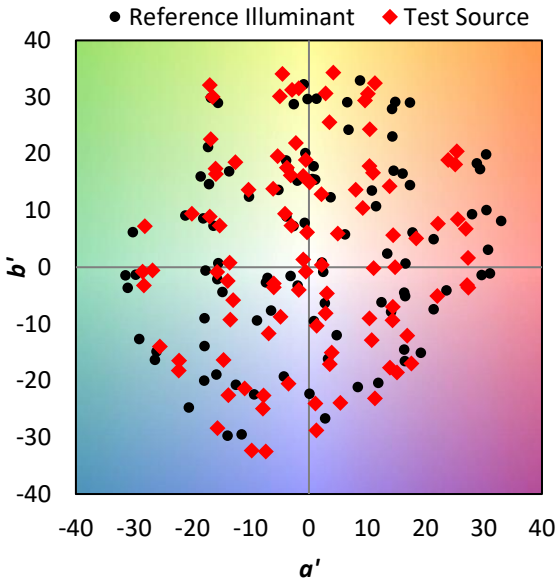
Summary

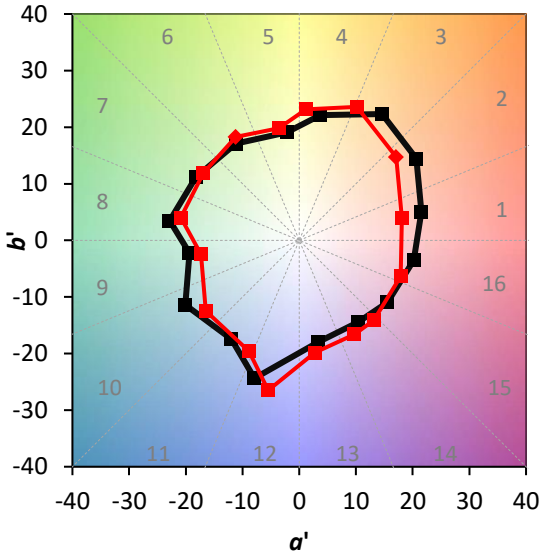
R_f = 79
R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

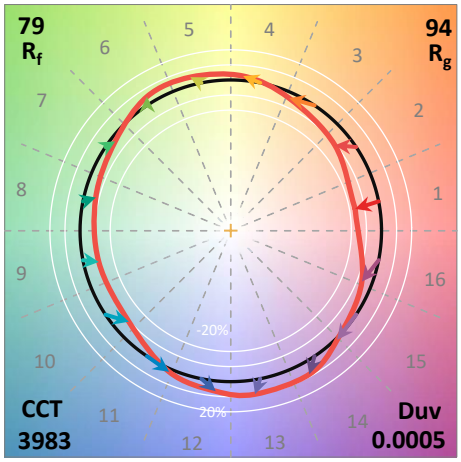
Spectral Power Distribution Comparison

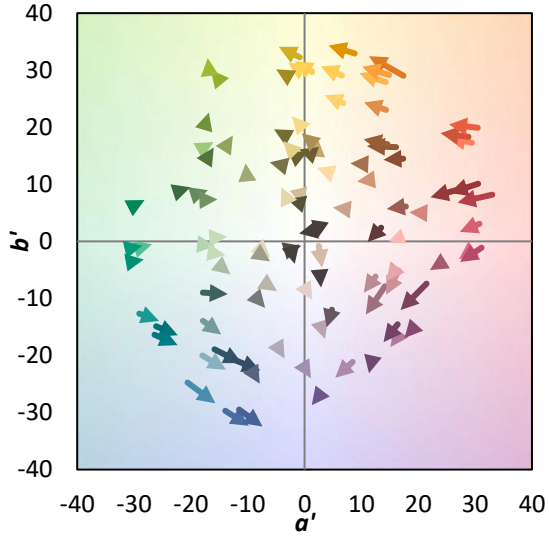


Color Vector Graphics







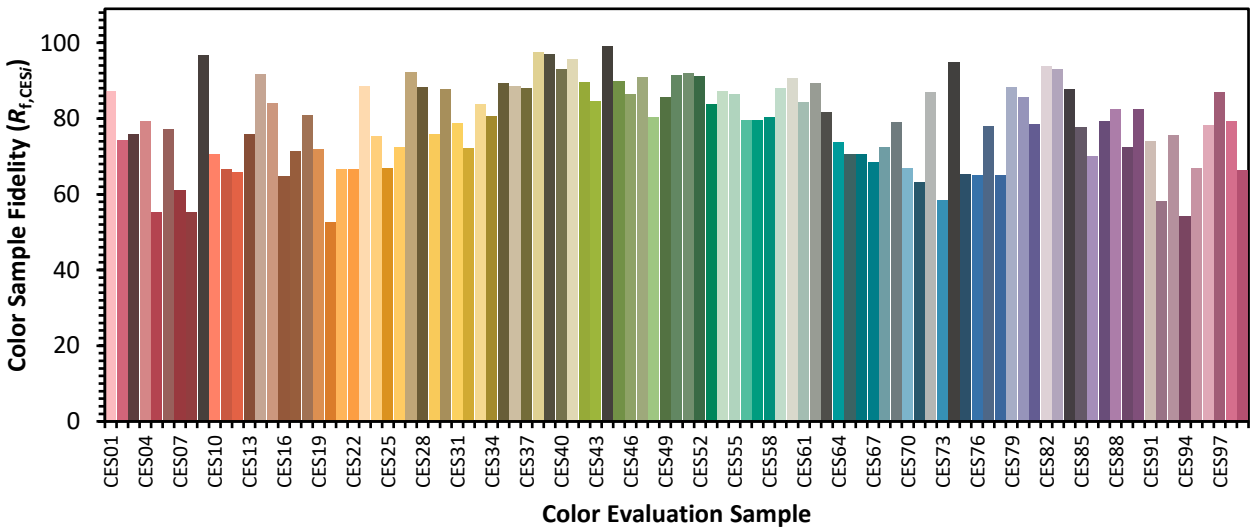


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

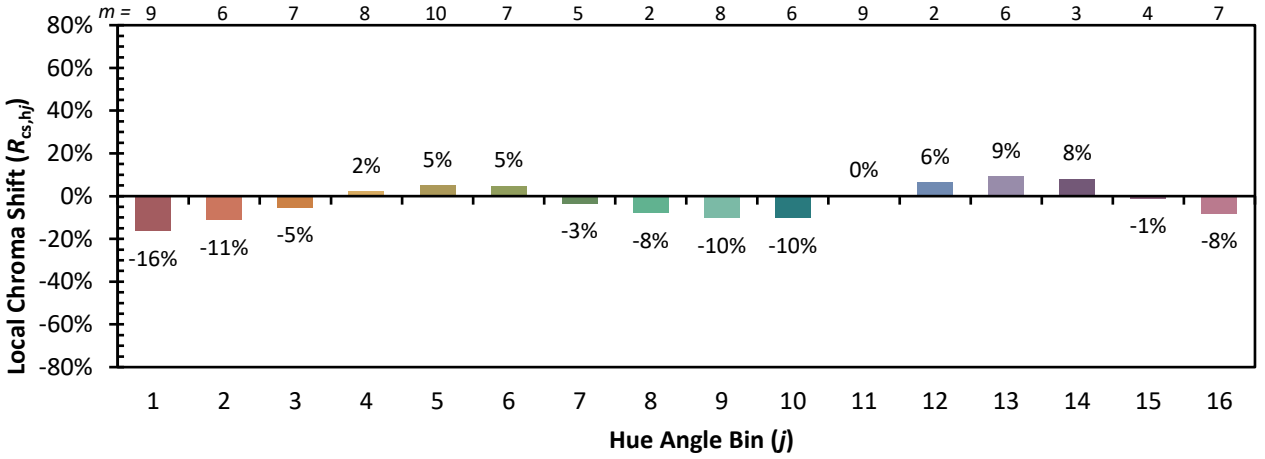
CES01 = 85	CES26 = 72	CES51 = 92	CES76 = 65
CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82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

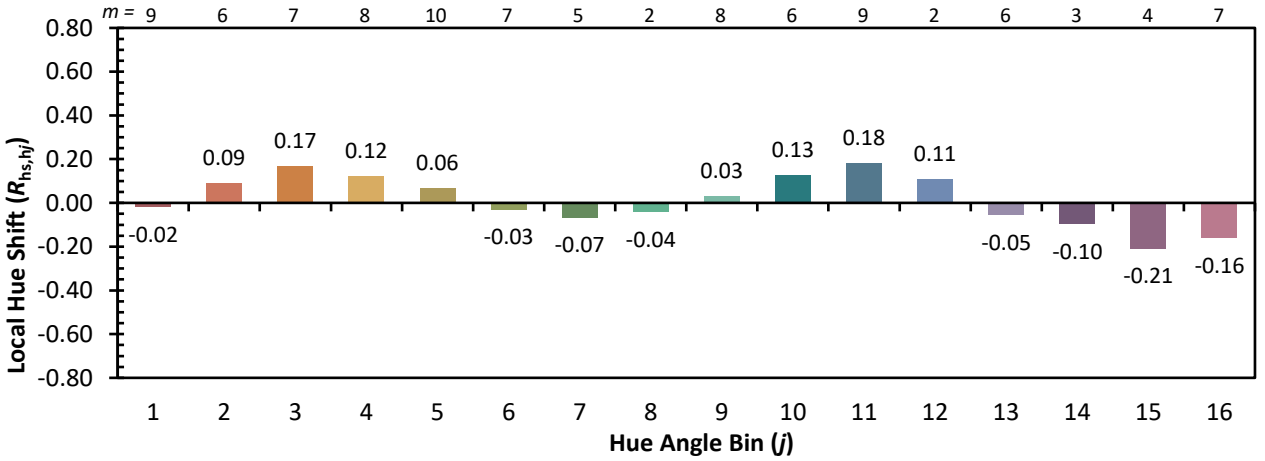


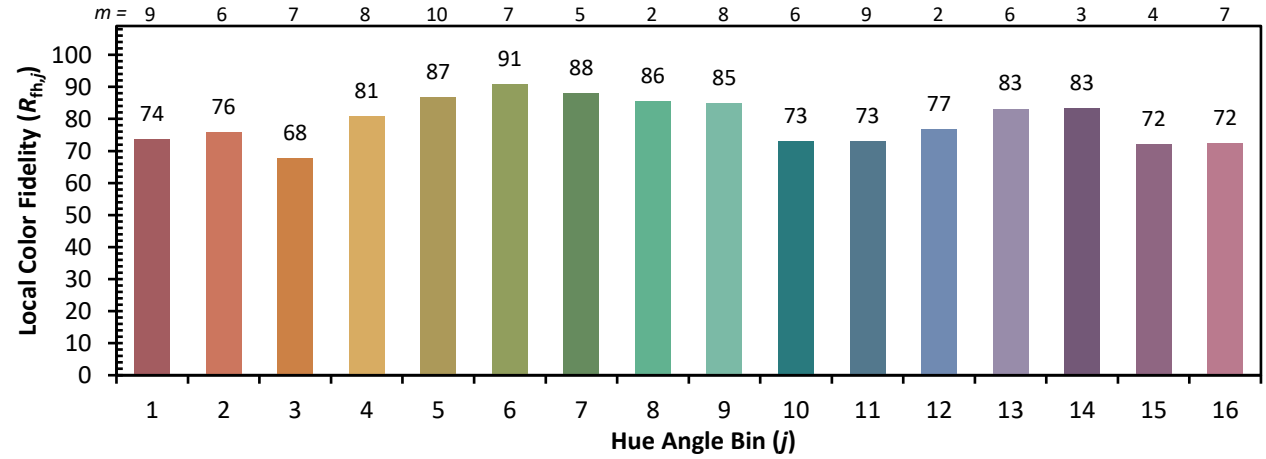
REPORT NUMBER: SP1-2501-332-11

TM-30-18

Color Rendition by Hue-Angle Bin



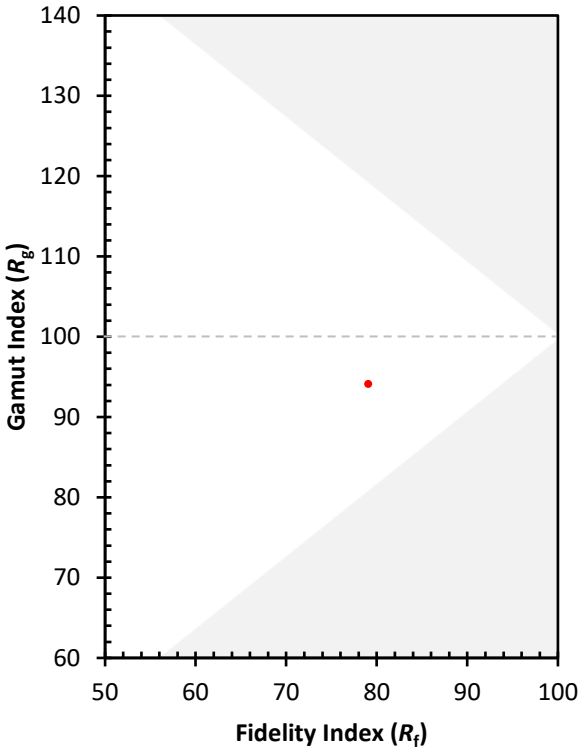


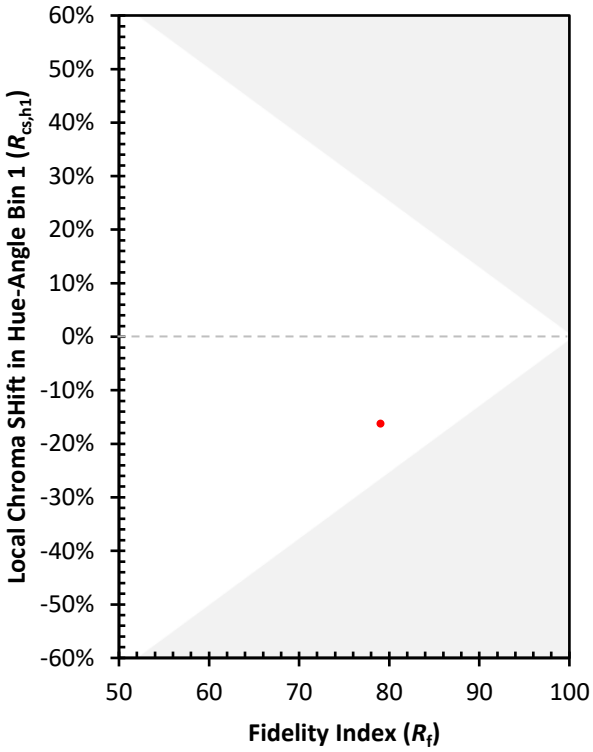


REPORT NUMBER: SP1-2501-332-11

TM-30-18

Measure Comparisons





(END OF REPORT)