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: P1046404

Luminaire Tested: **FFX-CLB-40-750-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:	P1046404
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-750-U-FR-T4
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6584 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:	B3 - U4 - G3

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

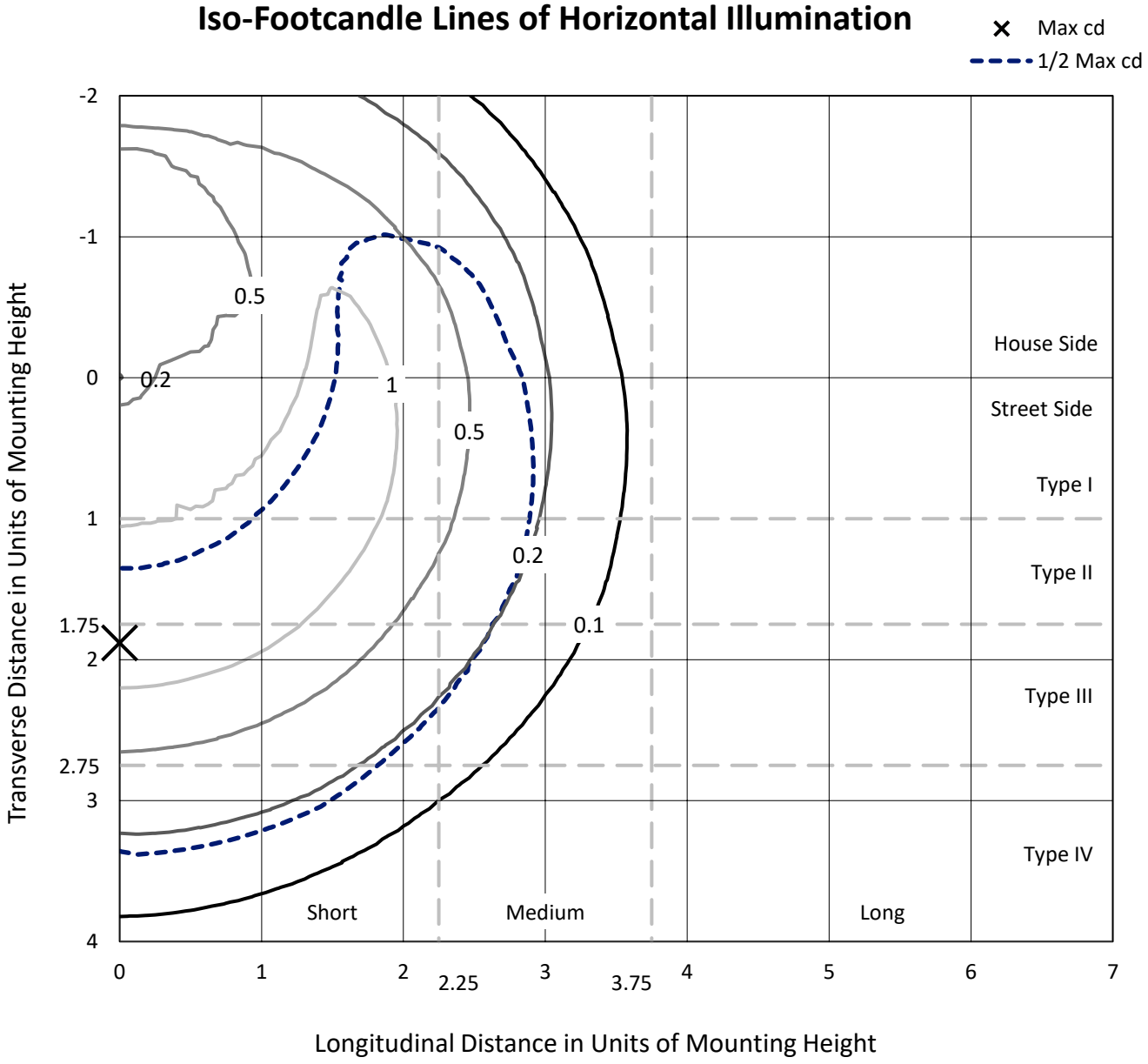


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046404
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T4

Iso-Footcandle Lines of Horizontal Illumination



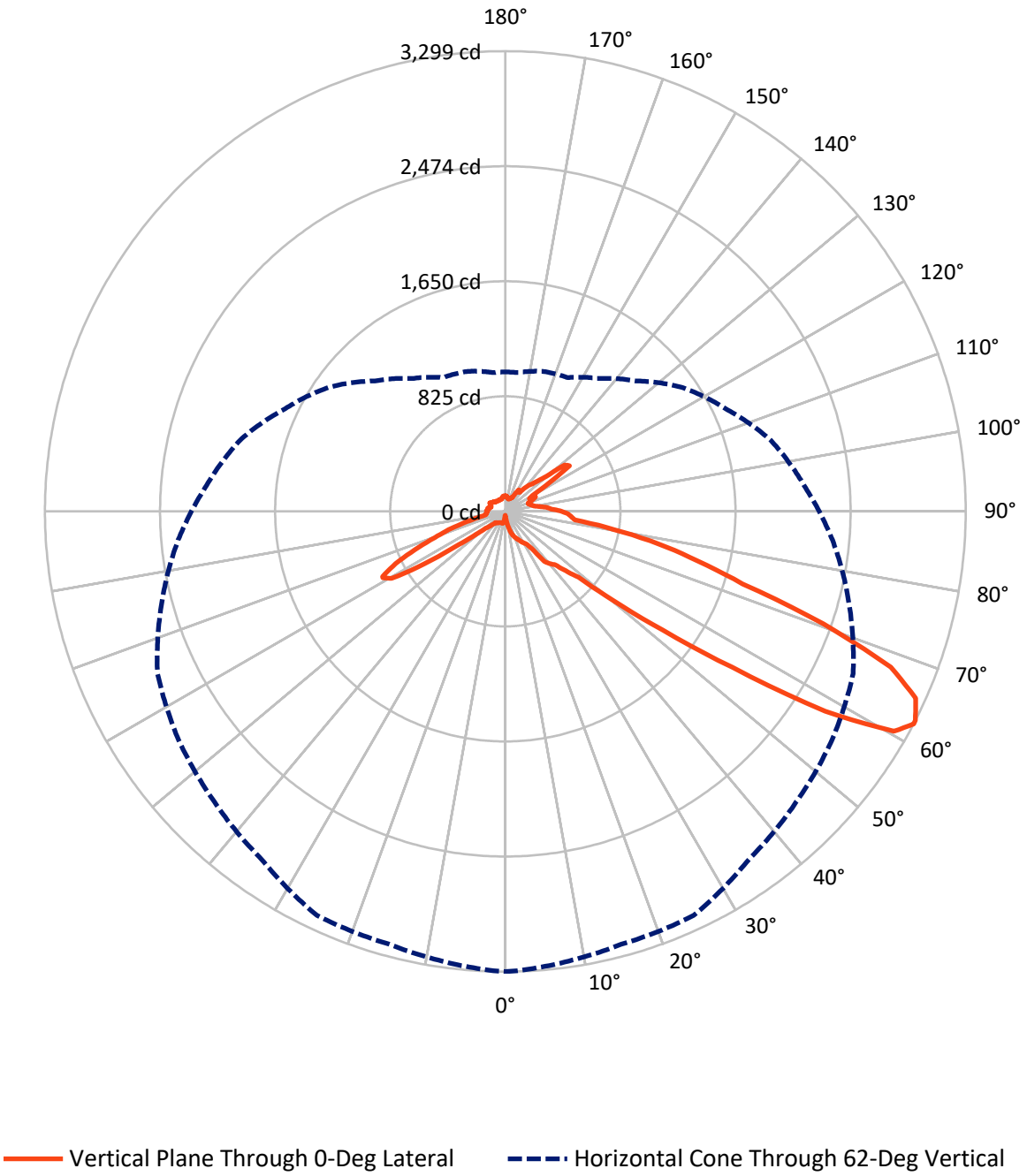
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046404
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T4

Luminous Intensity Polar Plot



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

Scaled Data Report

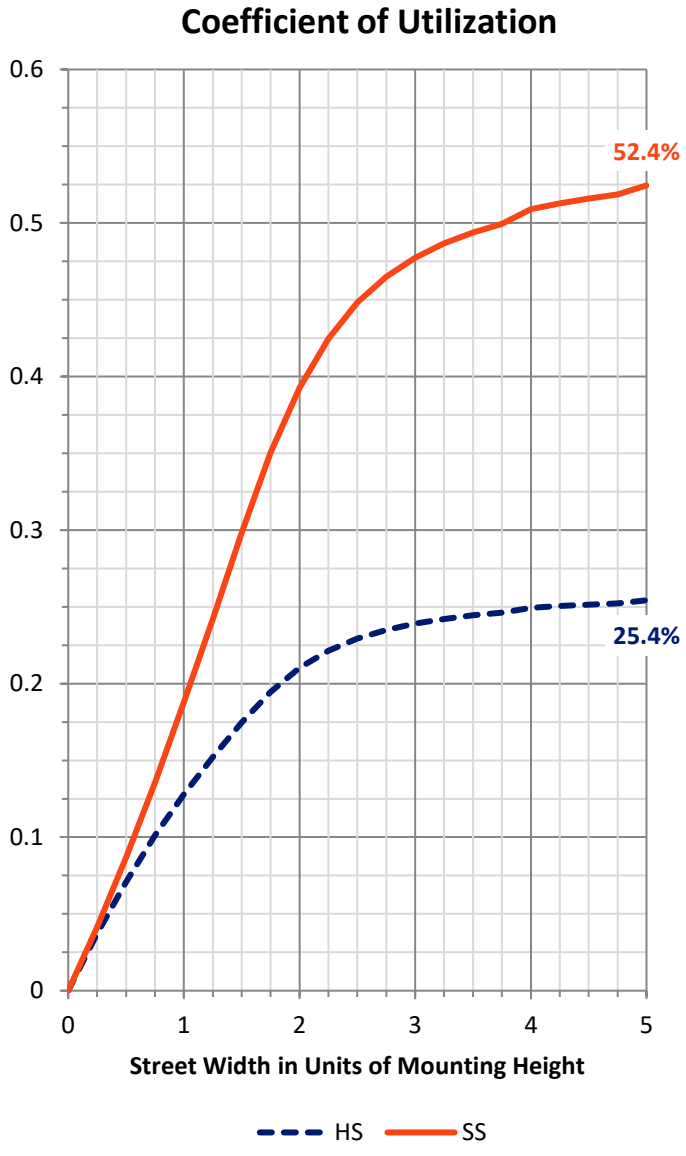
REPORT NUMBER: P1046404
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1732.3	495.0	2227.3
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	3596.4	760.3	4356.7
	% Fixture	54.6	11.5	66.2
Total	Lumens	5328.8	1255.2	6584.0
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.1
10°-20°	36.6	0.6
20°-30°	79.1	1.2
30°-40°	158.3	2.4
40°-50°	346.8	5.3
50°-60°	1214.2	18.4
60°-70°	2032.0	30.9
70°-80°	1054.7	16.0
80°-90°	400.6	6.1
90°-100°	255.4	3.9
100°-110°	169.3	2.6
110°-120°	176.8	2.7
120°-130°	295.5	4.5
130°-140°	177.8	2.7
140°-150°	94.0	1.4
150°-160°	49.5	0.8
160°-170°	26.8	0.4
170°-180°	10.0	0.2
0°-90°	5328.8	80.9
0°-180°	6584.0	100.0



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

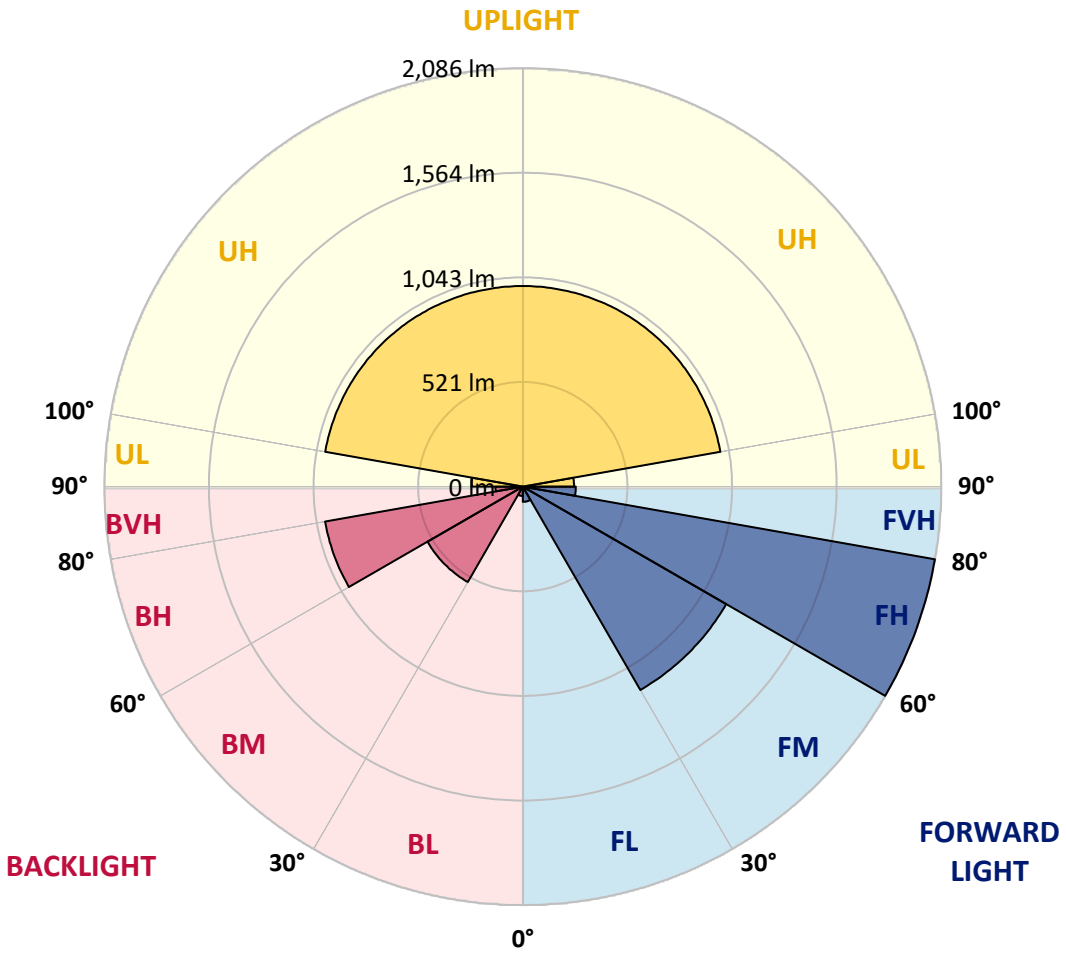
Scaled Data Report

REPORT NUMBER: P1046404
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	75.9	1.2			
FM	(30°-60°)	1170.6	17.8			
FH	(60°-80°)	2085.8	31.7			G2/5000
FVH	(80°-90°)	264.2	4.0			G3/500
BL	(0°-30°)	46.4	0.7	B0/110		
BM	(30°-60°)	548.7	8.3	B1/1000		
BH	(60°-80°)	1000.9	15.2	B3/2500		G3/2500
BVH	(80°-90°)	136.4	2.1			G2/225
UL	(90°-100°)	255.4	3.9		U3/500	
UH	(100°-180°)	999.8	15.2		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046404
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T4

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
2.5°	41.5	40.6	40.6	42.3	44.4	44.4	44.8	43.6	43.6	43.1	43.6
5°	60.3	58.6	59.5	59.9	60.7	61.6	62.4	62.4	60.7	59.5	56.1
7.5°	84.2	83.8	84.6	84.2	83.3	85.4	86.7	89.6	90.5	85.0	78.3
10°	108.5	107.2	106.8	107.2	107.6	106.4	108.9	111.0	108.1	101.8	95.9
12.5°	134.9	134.9	134.9	134.4	134.4	134.0	133.2	132.8	129.8	122.7	113.5
15°	164.2	164.6	165.4	165.0	162.9	159.6	157.1	155.0	153.3	148.3	136.5
17.5°	182.2	181.4	182.2	181.8	180.9	178.8	174.2	170.0	164.6	157.5	148.7
20°	198.9	198.5	198.1	198.1	197.3	194.8	191.8	185.1	178.0	170.5	160.4
22.5°	211.9	211.1	211.9	211.5	211.1	210.3	205.2	199.4	191.4	183.0	172.6
25°	228.7	228.3	228.7	227.4	227.4	226.2	223.2	215.7	206.9	197.7	184.7
27.5°	247.1	245.9	247.1	246.7	245.0	241.7	239.2	230.8	219.9	211.1	199.4
30°	262.6	262.6	263.4	260.9	262.6	259.7	253.8	244.6	235.4	224.1	211.9
32.5°	278.9	278.9	278.1	277.7	279.8	276.0	269.3	258.4	250.9	239.2	228.7
35°	324.6	321.2	326.7	326.3	336.7	329.2	316.6	302.0	290.3	275.2	261.4
37.5°	455.7	454.0	451.5	435.6	417.2	420.1	422.2	405.9	391.2	364.0	331.7
40°	493.0	492.5	492.1	482.9	487.9	474.5	467.8	459.5	456.9	421.3	378.2
42.5°	523.5	518.5	523.5	540.3	566.7	557.5	523.5	480.0	472.0	438.1	420.5
45°	606.5	603.1	611.5	616.5	608.1	593.1	602.7	570.9	549.1	500.9	468.7
47.5°	705.7	702.4	710.3	714.5	731.7	715.8	708.2	681.0	644.6	598.9	557.0
50°	1001.9	964.2	994.7	984.3	988.4	952.8	967.1	928.1	895.5	820.5	744.7
52.5°	1414.4	1401.8	1380.9	1357.4	1375.5	1337.3	1349.1	1306.8	1247.7	1160.6	1048.8
55°	1972.7	1930.4	1943.8	1992.0	1981.9	1913.7	1901.9	1798.9	1692.9	1562.7	1445.0
57.5°	2703.2	2682.2	2657.9	2625.7	2594.3	2523.5	2488.7	2373.5	2208.9	2027.2	1863.4
60°	3200.3	3183.6	3172.7	3074.2	3016.4	2874.0	2841.8	2761.8	2615.2	2417.5	2191.8
62°	3299.2	3296.6	3274.4	3213.3	3196.1	3045.3	2947.3	2858.1	2750.5	2549.9	2353.4
62.5°	3298.3	3293.3	3280.3	3229.2	3211.6	3070.5	2964.1	2869.4	2762.2	2565.4	2372.3
65°	3231.3	3220.0	3214.1	3183.6	3175.6	3092.7	2951.5	2853.9	2763.9	2546.9	2386.1
67.5°	2979.2	2992.6	2993.4	2962.8	2936.4	2887.0	2752.2	2667.6	2605.6	2379.4	2227.8
70°	2418.3	2400.3	2381.9	2396.1	2384.4	2357.6	2250.4	2144.0	2066.5	1948.0	1804.3
72.5°	1777.5	1806.0	1805.6	1809.8	1811.9	1744.4	1696.7	1635.5	1593.7	1491.0	1388.4
75°	1424.9	1427.4	1419.4	1390.1	1358.7	1319.7	1328.1	1322.7	1302.6	1194.1	1092.3
77.5°	1125.0	1097.3	1108.7	1062.6	1022.0	1021.5	1037.9	1053.8	1062.6	975.5	896.7
80°	792.0	785.7	775.7	779.9	746.4	755.2	763.1	774.0	756.8	705.3	668.9
82.5°	500.1	494.6	486.7	525.2	557.5	550.3	524.8	483.8	474.1	477.9	469.5
85°	472.9	472.4	465.3	461.6	456.5	445.2	451.5	460.3	455.3	426.8	389.9
87.5°	446.5	445.2	439.8	437.7	428.0	426.8	432.7	436.0	438.1	412.6	381.6
90°	391.2	386.2	381.1	385.3	384.1	384.9	386.6	385.7	386.6	356.4	343.4
92.5°	326.3	325.0	321.2	323.3	326.3	338.0	333.0	325.0	323.8	311.6	299.0
95°	297.8	298.6	294.0	297.0	297.8	297.8	294.4	290.7	287.7	278.1	266.8
97.5°	246.7	242.9	241.2	243.3	244.2	241.2	239.2	232.9	232.5	222.8	217.4
100°	209.8	209.0	208.2	210.7	211.5	210.3	210.7	206.9	206.5	201.0	195.2
102.5°	196.0	195.6	195.2	197.3	198.1	197.3	196.0	192.2	193.1	187.2	183.0
105°	185.1	185.1	184.7	186.0	183.4	182.2	180.5	180.5	181.4	176.7	170.5
107.5°	173.0	172.6	173.0	172.6	169.6	168.4	168.0	166.7	169.6	167.1	160.4

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

Scaled Data Report

REPORT NUMBER: P1046404
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*175.1*	175.1	174.7	170.0	168.4	166.3	165.4	167.5	166.7	162.5	158.3
112.5°	*214.4*	211.9	213.6	207.3	204.4	206.1	206.9	208.6	211.9	205.2	198.9
115°	*239.6*	240.0	244.2	244.2	237.9	240.8	240.8	240.4	243.8	238.7	232.5
117.5°	*195.6*	198.1	211.5	203.1	205.2	206.9	196.4	192.7	191.8	193.1	206.5
120°	*225.3*	222.0	234.5	208.2	200.2	200.2	207.7	217.4	206.9	191.0	195.2
122.5°	*368.6*	369.0	369.4	380.7	379.5	382.8	377.0	369.4	347.6	348.1	328.4
125°	*564.2*	558.7	558.7	553.7	552.9	544.9	555.0	561.2	544.5	516.0	485.0
127.5°	*539.9*	551.6	547.4	534.9	522.7	518.5	530.2	549.9	540.3	515.2	486.7
130°	*383.2*	386.2	385.3	398.7	402.1	397.9	402.1	387.8	389.9	395.8	380.7
132.5°	*321.2*	319.6	325.4	343.9	351.0	342.6	330.9	320.4	320.8	333.4	332.6
135°	*276.8*	275.6	279.8	280.6	288.6	281.9	271.4	271.4	273.9	276.8	275.6
137.5°	*250.0*	248.4	249.6	240.0	230.4	229.9	238.3	242.9	240.4	237.5	234.1
140°	*215.3*	216.1	214.0	206.1	201.9	202.7	208.2	215.3	213.2	206.9	201.9
142.5°	*171.3*	169.6	172.1	178.0	186.4	186.4	178.0	169.2	168.8	171.7	175.9
145°	*168.8*	168.0	168.4	167.1	168.8	167.1	164.6	162.1	159.2	157.1	155.4
147.5°	*183.0*	183.0	182.6	180.5	178.8	175.9	176.7	179.7	181.4	179.7	177.2
150°	*148.7*	149.9	149.9	149.5	147.8	149.1	150.8	151.6	153.3	153.3	150.8
152.5°	*114.3*	113.9	115.2	113.5	113.1	113.9	116.0	117.7	118.1	118.1	114.8
155°	*108.9*	108.1	108.9	108.1	107.2	108.1	109.7	110.6	111.4	110.2	106.8
157.5°	*101.8*	101.8	101.8	100.9	101.4	101.4	102.2	102.6	103.0	102.6	101.8
160°	*96.3*	96.3	96.8	96.3	96.3	97.2	96.8	96.3	96.3	95.9	95.5
162.5°	*93.0*	93.0	93.0	93.0	92.6	92.6	93.0	92.6	92.1	91.7	92.6
165°	*91.3*	90.9	90.9	90.9	91.3	90.9	90.9	90.9	90.5	91.7	93.4
167.5°	*94.7*	93.8	94.2	94.7	94.7	94.2	94.2	94.2	95.1	96.3	97.6
170°	*99.3*	98.8	98.8	99.3	99.3	98.8	98.8	98.8	99.3	99.7	100.1
172.5°	*103.0*	102.6	102.6	102.6	102.2	101.8	101.8	101.8	101.8	101.8	102.2
175°	*106.8*	106.8	106.8	106.8	106.4	106.0	106.0	106.0	106.0	106.0	106.0
177.5°	*111.0*	110.6	111.0	110.6	110.6	110.6	110.2	109.7	109.3	109.3	109.3
180°	*110.2*	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2

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

Scaled Data Report

REPORT NUMBER: P1046404
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
2.5°	42.7	42.3	39.8	37.7	36.0	34.3	31.8	29.7	28.1	27.6	27.6
5°	55.3	54.4	51.9	48.6	46.9	44.4	41.9	40.2	38.1	37.3	37.7
7.5°	76.2	76.6	77.5	79.2	78.3	71.2	63.2	61.6	63.2	65.8	67.0
10°	94.7	93.4	93.0	98.4	97.2	86.7	76.2	72.9	75.8	81.3	83.8
12.5°	109.7	107.2	106.8	107.6	102.6	91.3	82.5	78.7	80.4	84.6	84.2
15°	131.9	128.2	122.7	119.4	113.1	105.1	94.2	88.0	88.0	88.0	87.5
17.5°	144.9	140.7	130.3	120.6	112.7	106.8	99.7	93.8	87.5	86.7	86.3
20°	156.2	149.9	138.6	128.2	118.1	109.7	99.7	92.6	87.1	86.3	85.9
22.5°	165.9	160.0	147.8	135.3	122.7	113.1	102.2	94.7	89.2	87.5	87.1
25°	178.8	172.6	158.7	144.1	129.4	117.3	107.2	98.4	91.7	88.4	88.4
27.5°	191.8	184.7	169.2	154.1	138.2	123.1	111.8	103.0	94.7	90.0	89.6
30°	204.4	196.4	179.7	162.5	146.6	130.7	117.7	107.6	98.4	93.4	93.0
32.5°	222.0	212.8	193.1	171.7	155.8	138.6	124.0	112.2	102.6	97.6	96.8
35°	256.3	245.9	223.7	196.0	170.9	147.8	130.3	114.8	105.5	100.1	99.7
37.5°	320.0	307.8	276.8	242.9	208.6	173.8	141.6	118.1	107.6	102.6	101.8
40°	358.1	334.2	301.6	274.8	248.8	215.3	173.8	137.0	111.8	106.0	105.1
42.5°	407.5	382.8	335.5	284.4	251.3	224.9	195.6	171.7	135.7	114.8	111.0
45°	454.4	435.6	395.0	340.5	290.3	244.6	208.2	185.1	162.1	138.2	134.4
47.5°	533.2	505.5	451.9	396.2	345.1	294.0	250.9	206.1	176.3	162.1	161.3
50°	735.1	684.8	607.3	540.7	444.4	366.1	315.0	255.1	217.0	194.8	187.6
52.5°	996.0	943.6	855.3	758.9	652.1	551.2	451.1	365.2	303.2	264.3	265.5
55°	1384.7	1332.3	1202.5	1037.5	890.9	785.7	678.5	574.2	474.5	417.2	410.0
57.5°	1794.7	1747.8	1636.8	1435.3	1202.1	1007.7	880.4	806.7	755.6	693.2	693.2
60°	2095.4	2017.5	1891.9	1688.7	1481.8	1226.3	1063.0	957.5	948.2	937.4	945.7
62°	*2249.1*	*2148.6*	*1969.4*	*1741.1*	*1548.8*	*1321.4*	*1162.7*	*1058.0*	*1039.5*	*998.5*	*999.3*
62.5°	2275.1	2164.1	1982.3	1741.1	1554.7	1329.8	1173.6	1071.4	1045.8	995.6	996.4
65°	2301.1	2167.5	1992.0	1713.0	1521.6	1300.9	1180.7	1047.5	980.5	896.3	871.6
67.5°	2152.0	2015.0	1864.6	1592.8	1393.9	1180.7	1047.5	913.9	804.6	719.1	705.7
70°	1747.8	1640.2	1524.1	1316.4	1142.6	970.0	856.9	736.3	627.4	533.2	539.0
72.5°	1326.4	1225.9	1119.5	987.6	879.6	763.5	663.4	566.3	475.8	417.2	428.0
75°	1027.4	960.4	885.0	789.1	707.0	599.8	485.8	399.6	338.4	302.8	304.9
77.5°	844.8	775.3	713.7	625.7	547.8	438.1	328.4	254.7	219.1	203.1	198.9
80°	649.6	598.9	544.5	465.7	379.9	295.3	220.7	186.4	162.9	151.2	146.6
82.5°	453.6	422.2	376.5	319.6	270.1	239.2	206.9	178.0	153.7	142.8	137.8
85°	373.6	356.8	331.7	299.5	270.1	235.8	199.8	170.5	149.5	141.1	136.5
87.5°	364.0	352.7	324.2	289.8	254.7	219.5	183.0	155.8	142.4	137.0	132.8
90°	333.8	320.8	300.7	266.8	235.4	197.7	168.0	151.6	141.6	135.3	130.7
92.5°	291.1	284.0	265.5	241.2	219.5	195.2	173.8	159.2	148.7	141.1	136.5
95°	258.8	250.5	240.0	220.3	202.3	182.6	162.9	149.1	138.2	130.3	126.5
97.5°	212.8	206.9	196.9	183.9	170.5	154.5	140.7	131.5	124.4	120.6	118.1
100°	193.1	189.3	183.4	174.2	163.3	152.0	142.0	137.0	134.0	131.5	130.3
102.5°	178.8	174.7	170.0	160.4	152.0	142.0	135.3	131.1	127.3	123.1	122.3
105°	166.3	162.9	156.6	148.7	140.3	130.7	122.7	120.2	116.9	113.1	112.7
107.5°	156.6	153.3	147.8	139.5	131.9	123.6	116.4	112.7	108.9	106.8	106.4

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

Scaled Data Report

REPORT NUMBER: P1046404
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	155.8	153.3	147.4	140.3	134.4	126.1	118.1	116.9	112.7	107.6	107.2
112.5°	194.3	186.4	175.1	163.3	153.3	144.9	134.9	124.8	116.4	111.4	110.6
115°	225.3	217.4	203.6	186.4	170.5	152.5	135.3	122.7	118.1	116.9	118.5
117.5°	211.9	195.2	171.7	161.3	147.4	137.8	131.1	128.2	120.6	122.7	124.8
120°	203.6	192.2	171.7	170.0	163.8	152.9	137.4	134.0	129.8	126.5	126.1
122.5°	327.1	316.2	292.8	257.2	218.6	192.7	183.0	162.9	138.6	120.2	117.3
125°	463.6	446.1	400.0	360.6	309.5	254.7	205.2	162.9	129.8	112.2	110.2
127.5°	472.9	453.2	413.0	359.8	294.9	227.8	176.7	146.2	124.0	112.2	110.2
130°	368.6	356.0	326.3	276.4	231.6	191.8	162.9	138.2	118.1	109.3	108.1
132.5°	325.9	314.5	272.2	230.8	201.0	170.5	146.2	122.7	105.5	99.7	98.8
135°	269.3	256.7	228.7	203.1	181.4	156.6	132.4	112.2	100.1	97.2	96.8
137.5°	229.9	224.1	203.1	185.1	165.4	144.1	124.0	108.5	100.9	98.4	98.0
140°	198.5	197.3	184.3	168.4	148.7	126.1	110.6	101.4	98.4	97.2	96.8
142.5°	175.5	173.8	159.6	141.1	123.6	111.8	106.0	103.0	100.5	97.2	96.3
145°	152.0	149.1	140.3	132.4	126.9	123.1	117.7	108.5	98.8	93.8	93.4
147.5°	173.0	168.0	158.3	147.0	135.3	123.1	111.8	102.2	94.2	91.3	90.9
150°	145.3	144.9	138.6	129.8	121.0	110.2	101.8	95.5	92.1	91.7	91.7
152.5°	112.7	112.7	112.7	110.6	106.4	100.5	94.2	90.5	90.5	92.1	92.6
155°	106.0	106.4	106.8	106.0	102.6	97.2	91.7	90.0	90.5	92.1	92.6
157.5°	100.9	100.9	101.4	100.5	98.8	95.1	91.3	89.6	90.0	90.9	91.3
160°	95.1	95.1	95.5	95.5	93.8	92.6	90.9	89.6	89.6	90.0	90.5
162.5°	93.0	93.0	93.0	93.0	92.6	92.6	92.6	92.6	92.1	92.1	92.1
165°	93.8	93.8	92.6	92.1	93.0	94.2	96.3	96.8	94.7	94.2	94.2
167.5°	98.0	98.0	96.8	95.9	97.2	98.4	101.4	102.2	100.5	98.8	98.8
170°	100.5	100.5	100.5	100.9	101.4	102.6	104.3	105.1	104.7	104.3	104.3
172.5°	102.2	102.2	103.0	103.9	105.1	106.0	106.8	107.6	108.5	108.5	108.9
175°	105.5	106.0	106.8	107.2	108.1	108.9	109.7	110.6	111.0	111.0	111.0
177.5°	108.9	108.9	108.9	109.3	109.7	110.2	110.6	111.0	111.0	111.4	111.8
180°	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2

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: SP1-2501-332-10

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

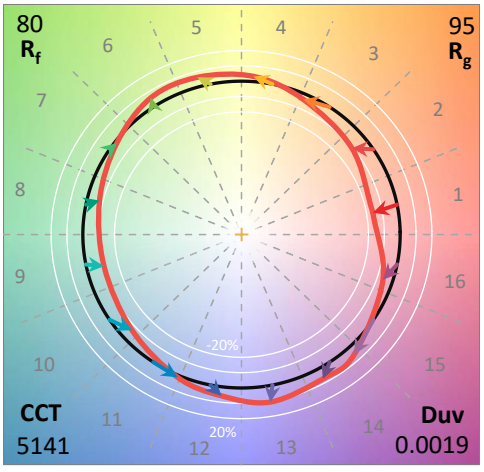
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-10
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-20-750-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):	5141	CRI (Ra):	78.0		
CIE u':	0.2087	R1:	75.1	R9:	-20.0
CIE v':	0.4845	R2:	83.7	R10:	62.4
Duv:	0.0019	R3:	90.5	R11:	77.7
CIE x:	0.3415	R4:	78.3	R12:	58.6
CIE y:	0.3524	R5:	77.1	R13:	76.9
CIE z:	0.3060	R6:	78.0	R14:	95.0
Peak Wavelength (nm):	448	R7:	82.9	R15:	67.8
Dominant Wavelength (nm):	568	R8:	58.7		
Purity:	8.219556				
Rf:	79.6				
Rg:	95.3				



Test Conditions

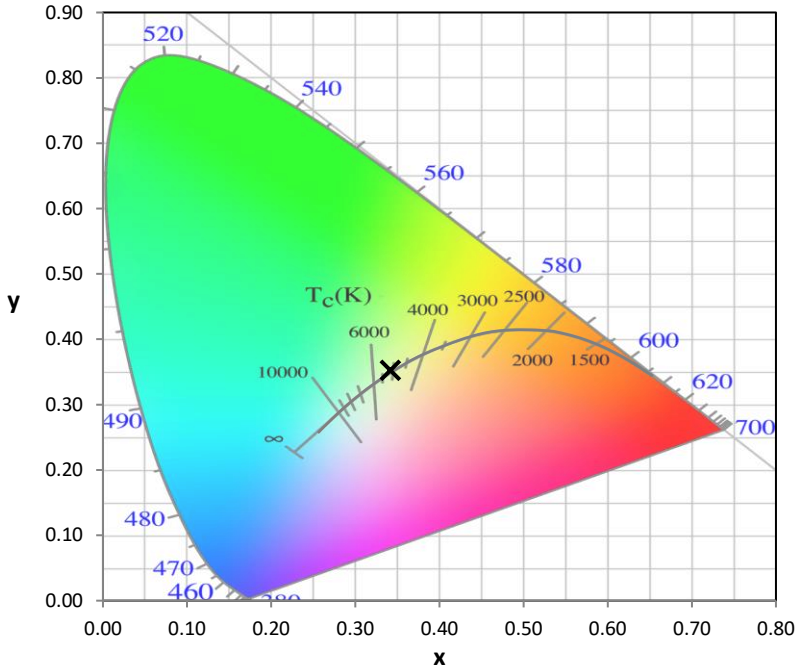
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

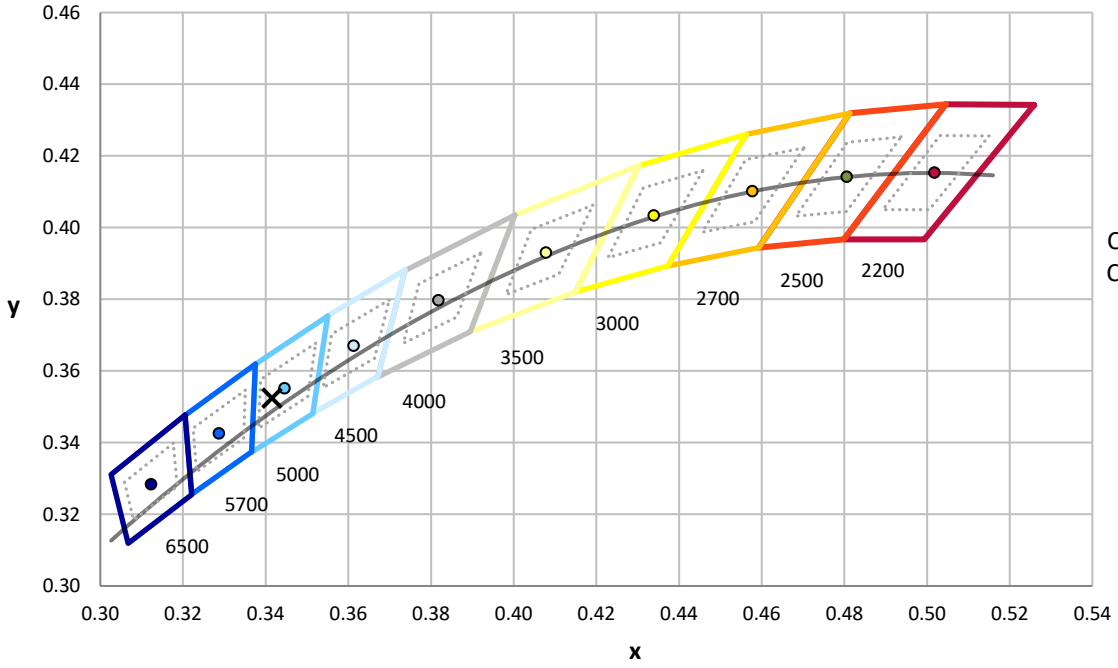
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-10

CIE 1931 Chromaticity Diagram



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

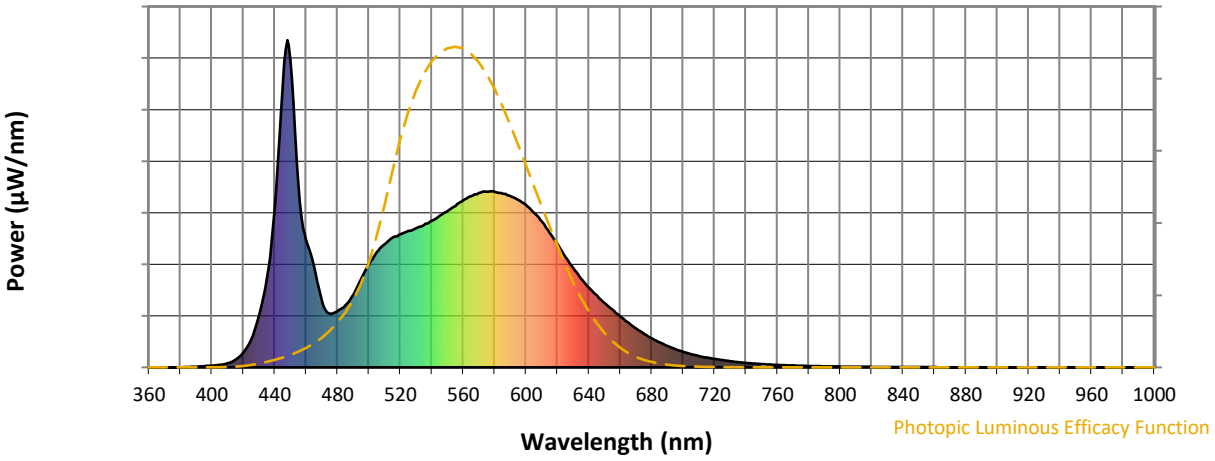


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

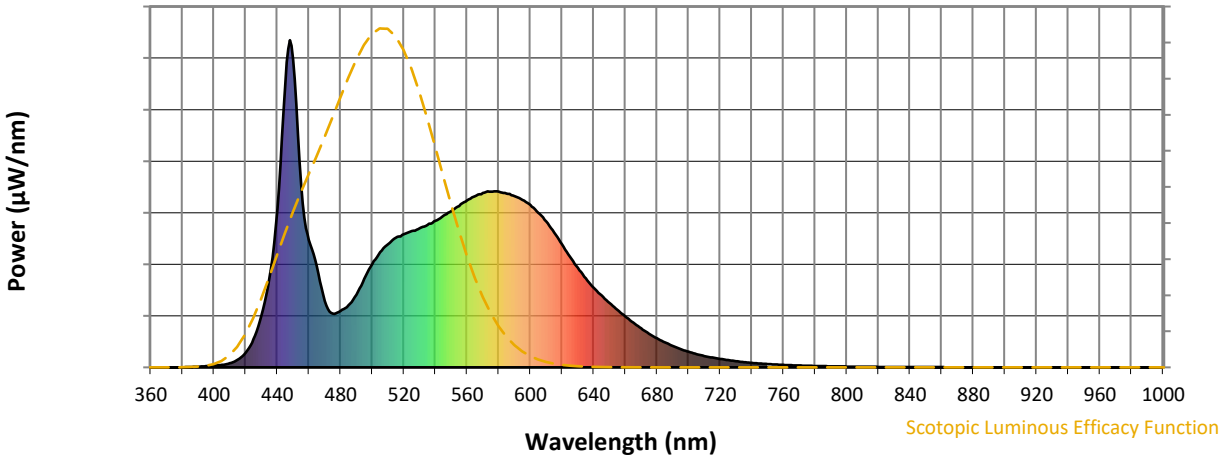


Photopic Lumens: NR

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Scotopic Flux vs. Wavelength

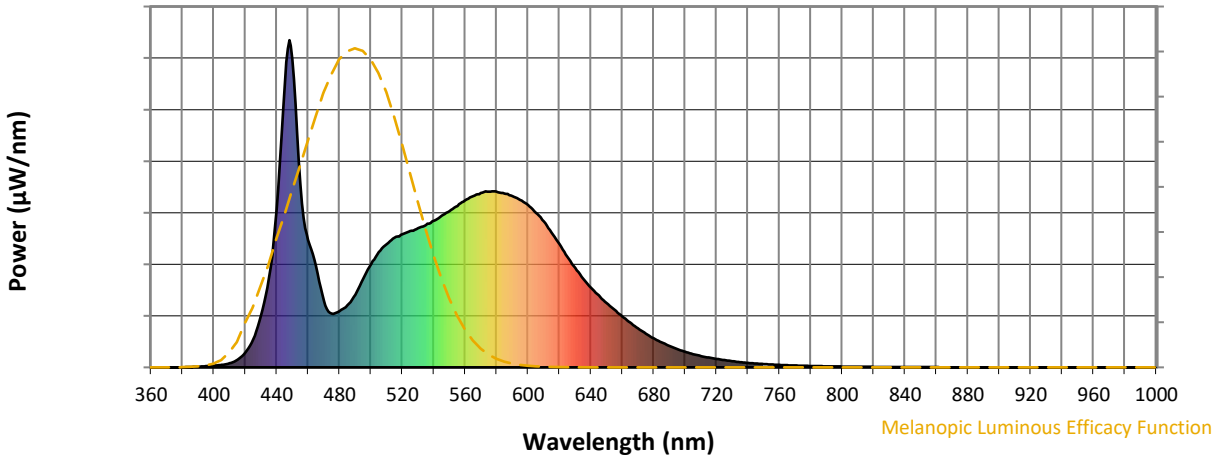


Scotopic Lumens: NR **S/P: 1.92**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.05**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

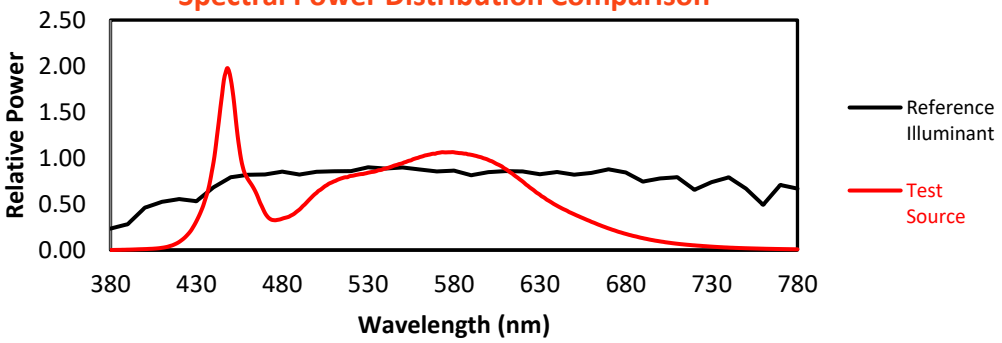
REPORT NUMBER: SP1-2501-332-10

TM-30-18

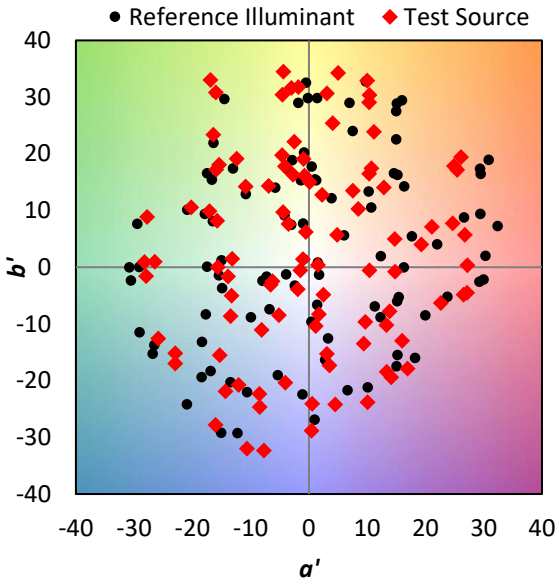
Summary

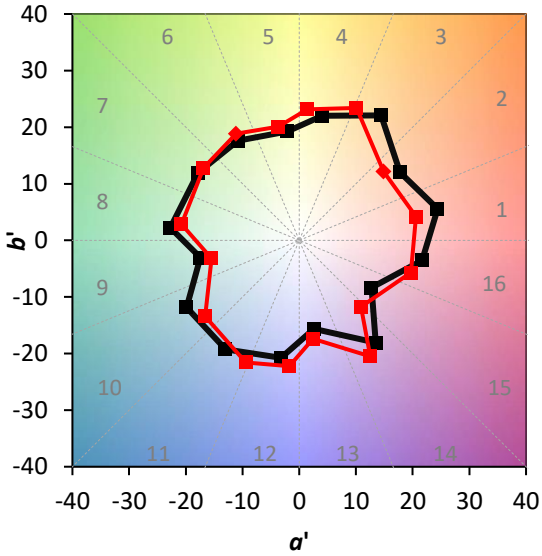
R_f = 79.6
R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

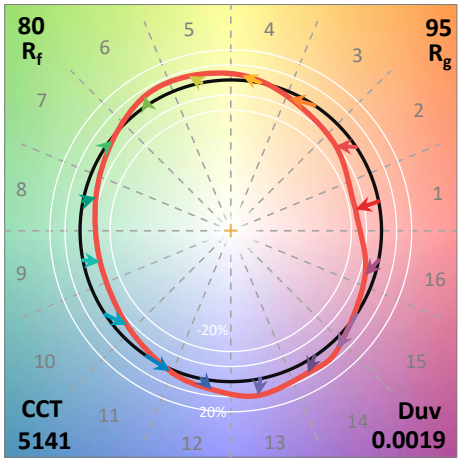
Spectral Power Distribution Comparison

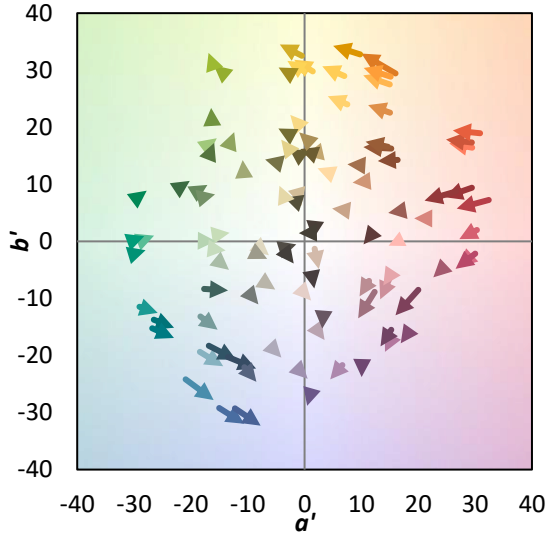


Color Vector Graphics







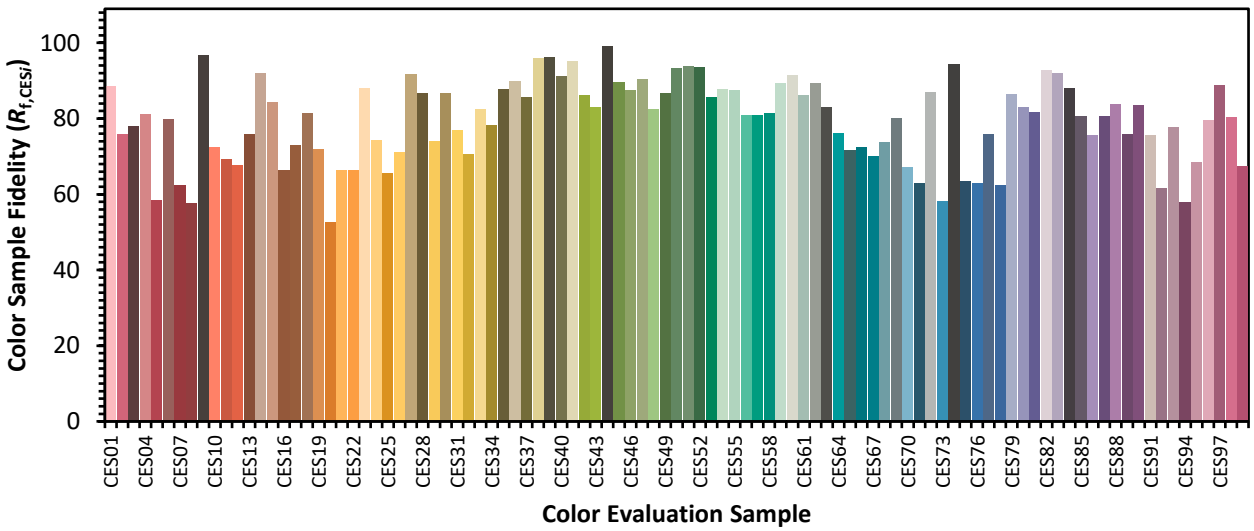


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

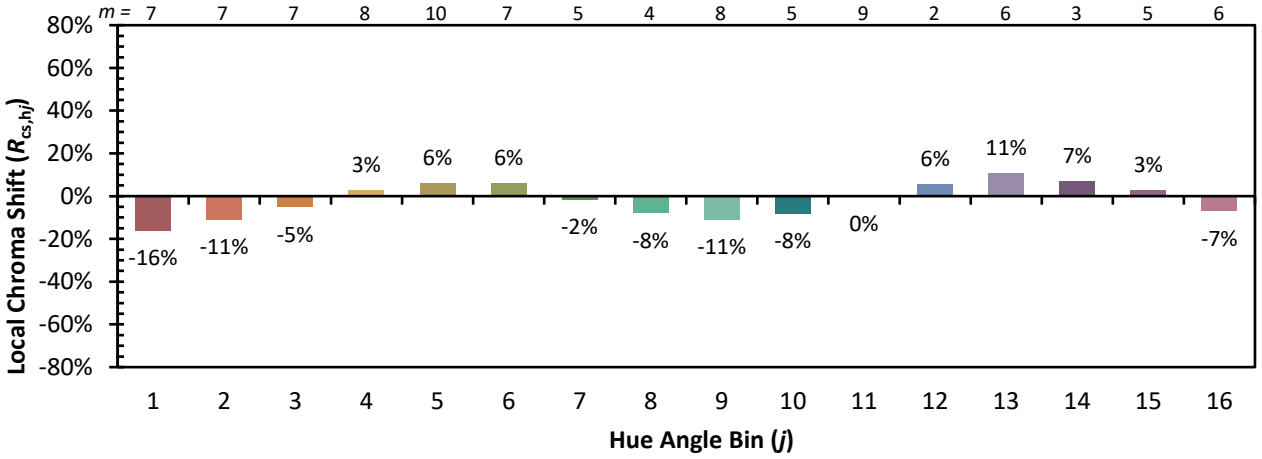
CES01 = 85	CES26 = 71	CES51 = 94	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57 = 81	CES82 = 93
CES08 = 38	CES33 = 83	CES58 = 82	CES83 = 92
CES09 = 29	CES34 = 78	CES59 = 89	CES84 = 88
CES10 = 73	CES35 = 88	CES60 = 91	CES85 = 81
CES11 = 56	CES36 = 90	CES61 = 86	CES86 = 76
CES12 = 61	CES37 = 86	CES62 = 89	CES87 = 81
CES13 = 42	CES38 = 96	CES63 = 83	CES88 = 84
CES14 = 74	CES39 = 96	CES64 = 76	CES89 = 76
CES15 = 70	CES40 = 91	CES65 = 72	CES90 = 83
CES16 = 46	CES41 = 95	CES66 = 72	CES91 = 76
CES17 = 49	CES42 = 86	CES67 = 70	CES92 = 62
CES18 = 55	CES43 = 83	CES68 = 74	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 58
CES20 = 64	CES45 = 90	CES70 = 67	CES95 = 68
CES21 = 85	CES46 = 88	CES71 = 63	CES96 = 79
CES22 = 77	CES47 = 90	CES72 = 87	CES97 = 89
CES23 = 91	CES48 = 83	CES73 = 58	CES98 = 80
CES24 = 90	CES49 = 87	CES74 = 94	CES99 = 67
CES25 = 71	CES50 = 93	CES75 = 64	

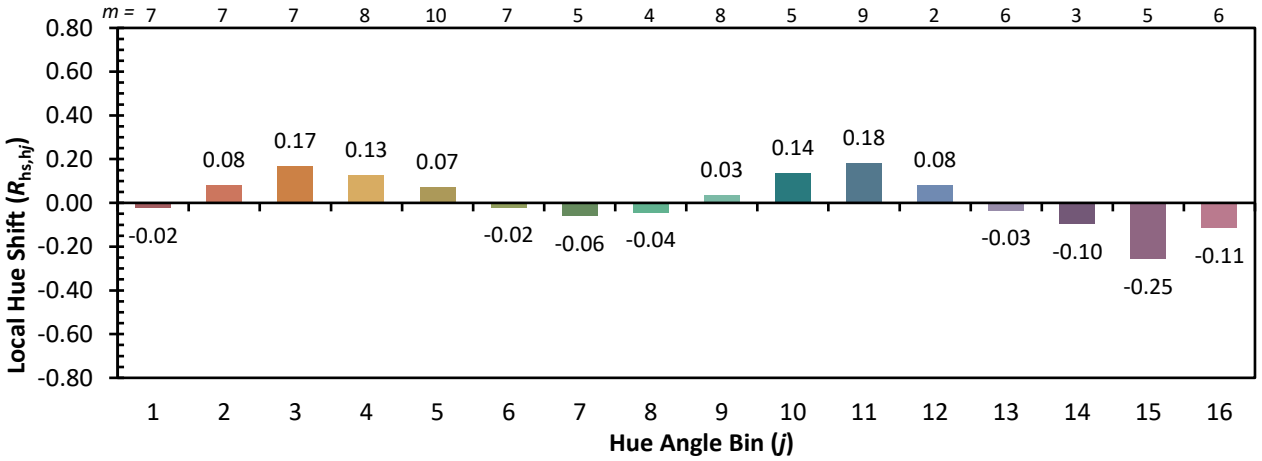


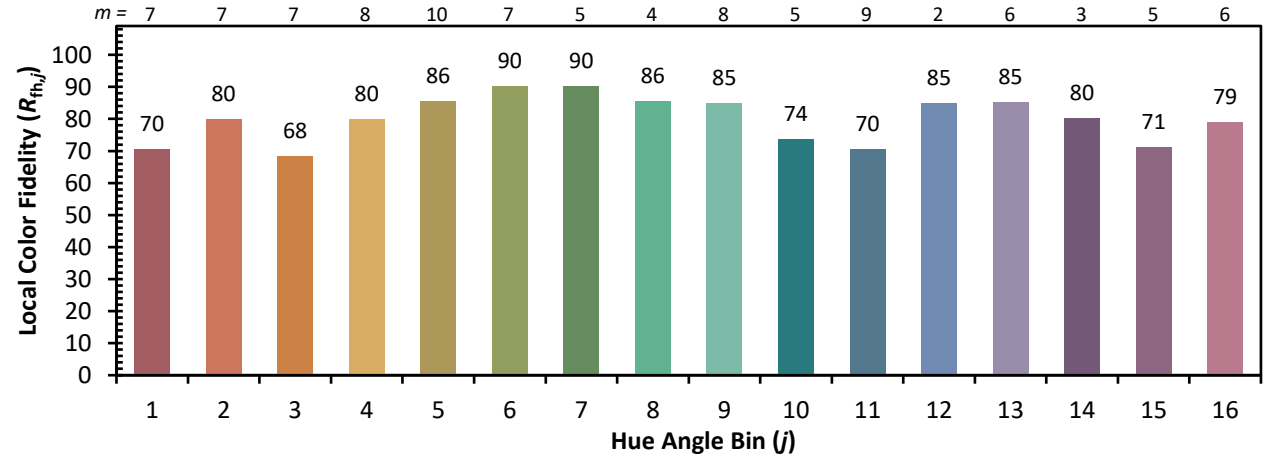
REPORT NUMBER: SP1-2501-332-10

TM-30-18

Color Rendition by Hue-Angle Bin



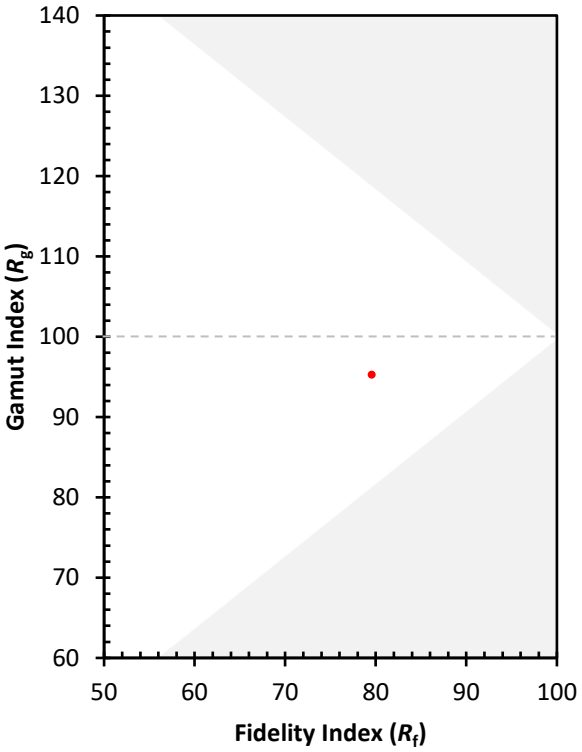


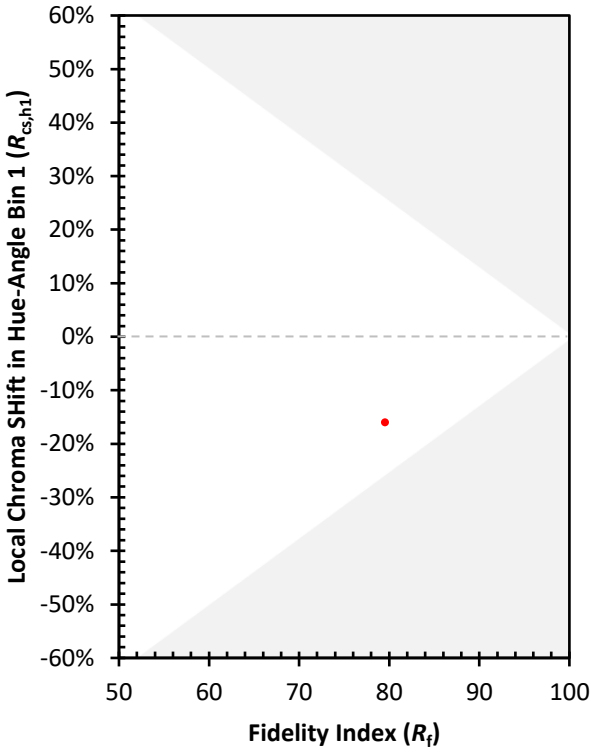


REPORT NUMBER: SP1-2501-332-10

TM-30-18

Measure Comparisons





(END OF REPORT)