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: P1046198

Luminaire Tested: **FFX-CLB-30-727-U-FR-T4-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:	P1046198
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-727-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4233.2 lumens
Efficiency:	N/A
Efficacy:	138.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - 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

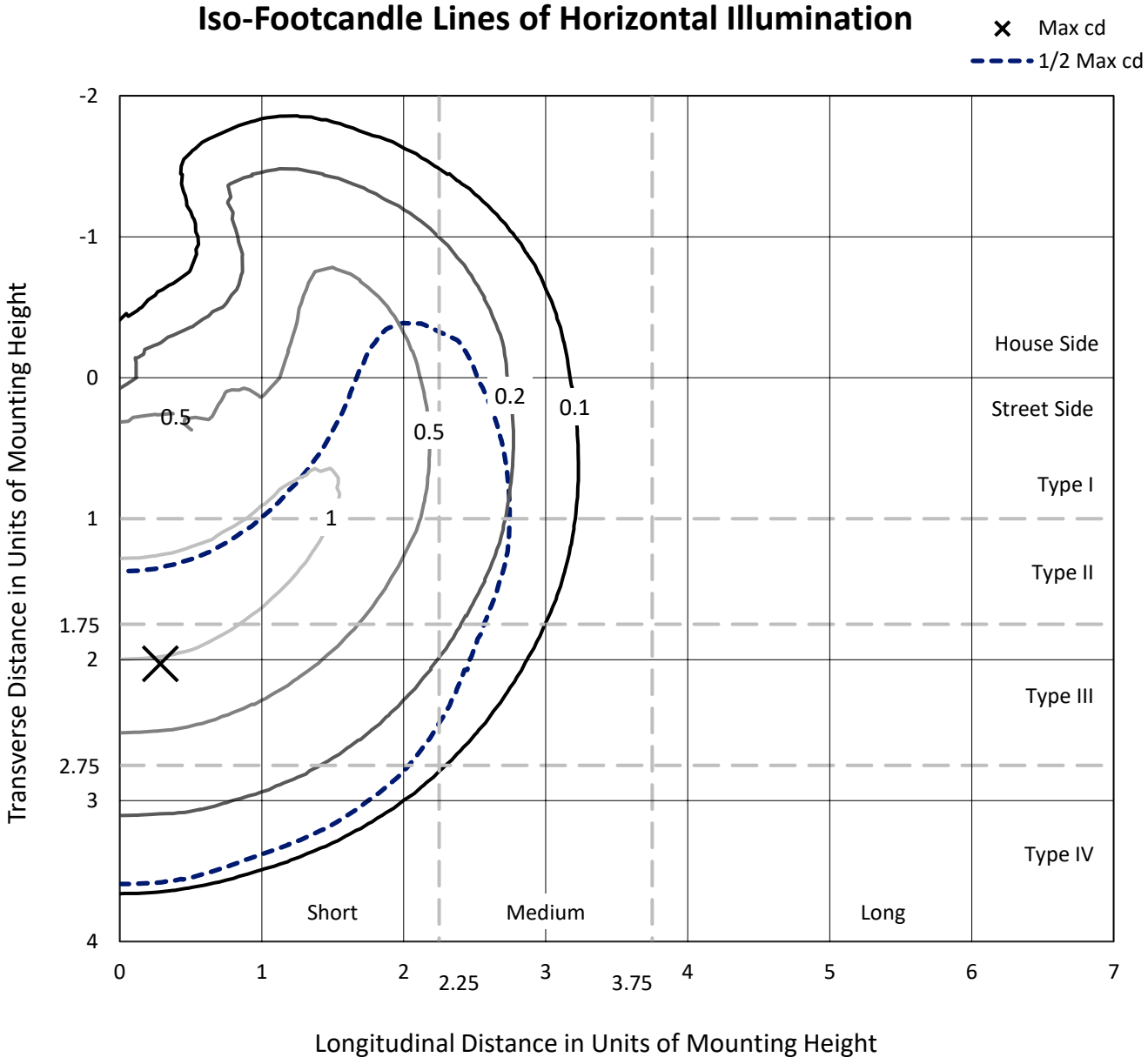


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046198
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



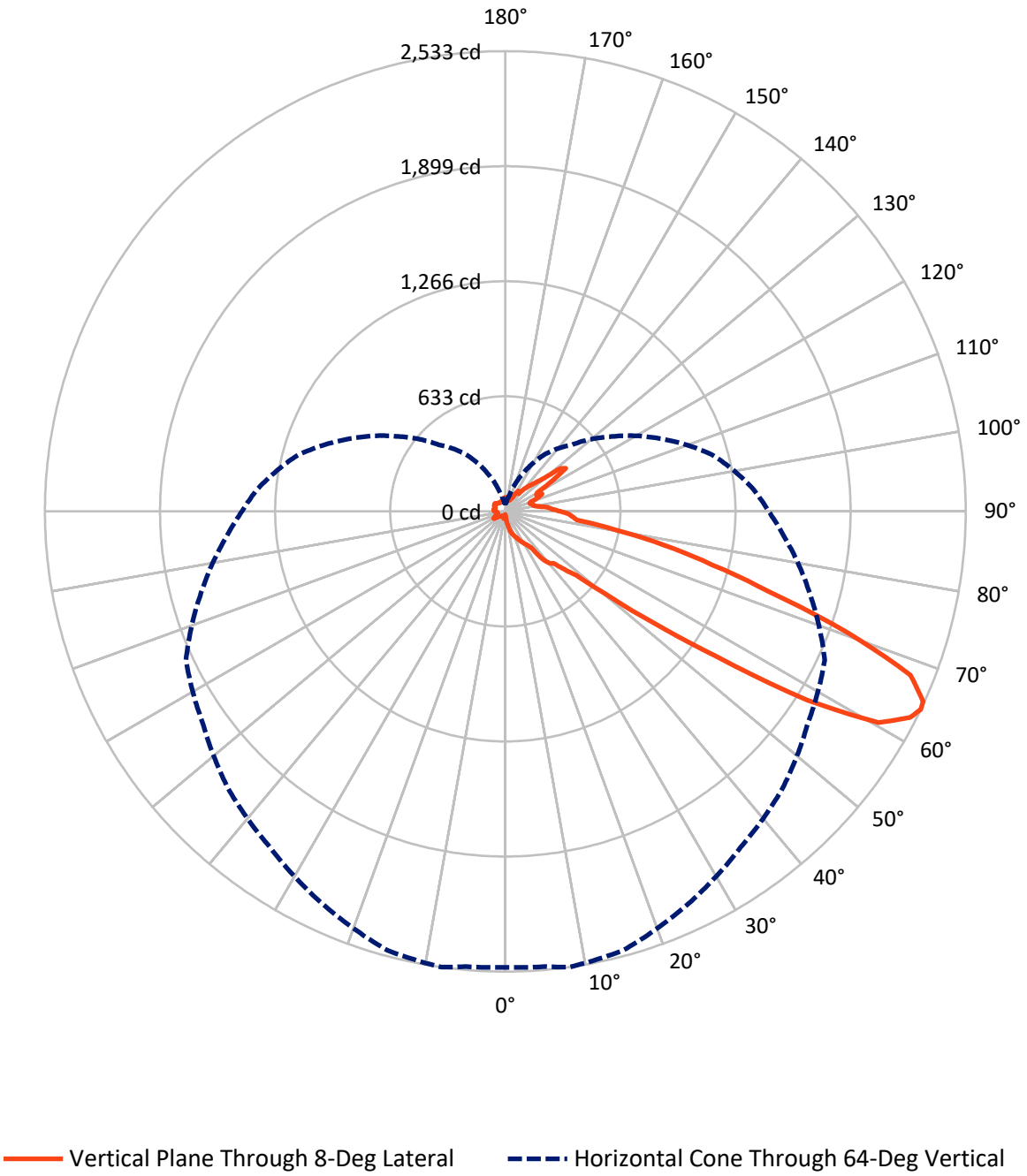
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046198
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

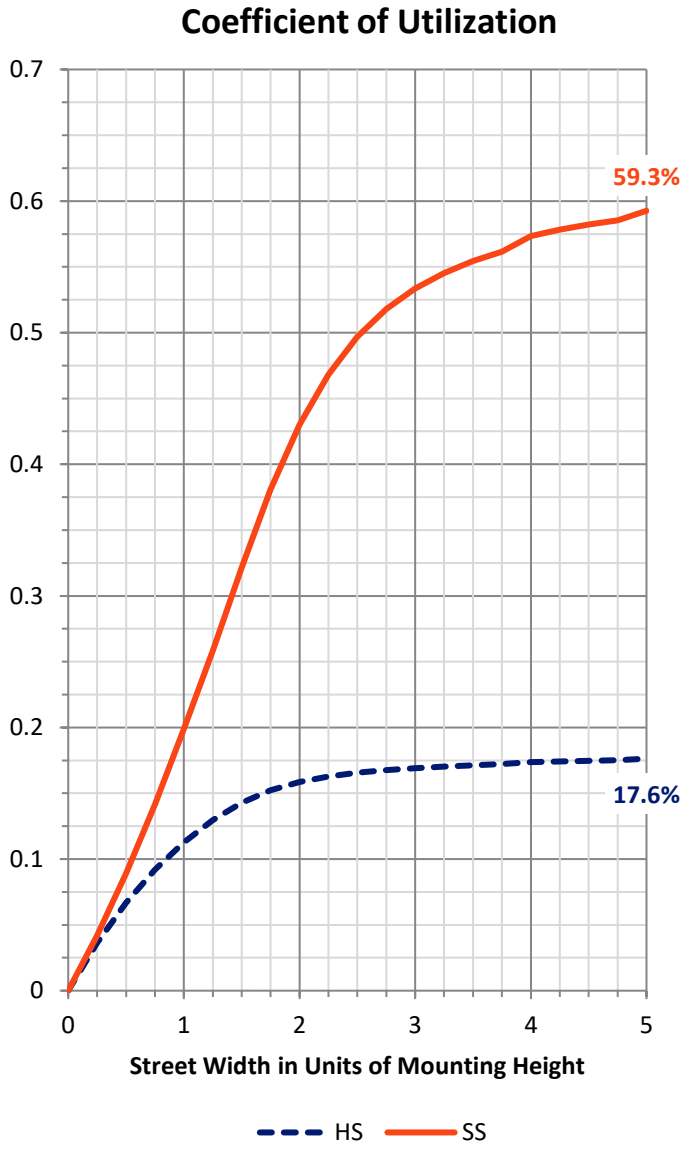
REPORT NUMBER: P1046198
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	774.2	289.2	1063.4
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	2616.1	553.8	3169.8
	% Fixture	61.8	13.1	74.9
Total	Lumens	3390.2	843.0	4233.2
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.1
10°-20°	23.3	0.6
20°-30°	50.6	1.2
30°-40°	101.1	2.4
40°-50°	218.9	5.2
50°-60°	758.8	17.9
60°-70°	1276.4	30.2
70°-80°	694.1	16.4
80°-90°	262.7	6.2
90°-100°	165.8	3.9
100°-110°	111.8	2.6
110°-120°	121.0	2.9
120°-130°	199.1	4.7
130°-140°	122.6	2.9
140°-150°	64.1	1.5
150°-160°	33.4	0.8
160°-170°	18.2	0.4
170°-180°	6.8	0.2
0°-90°	3390.2	80.1
0°-180°	4233.2	100.0



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

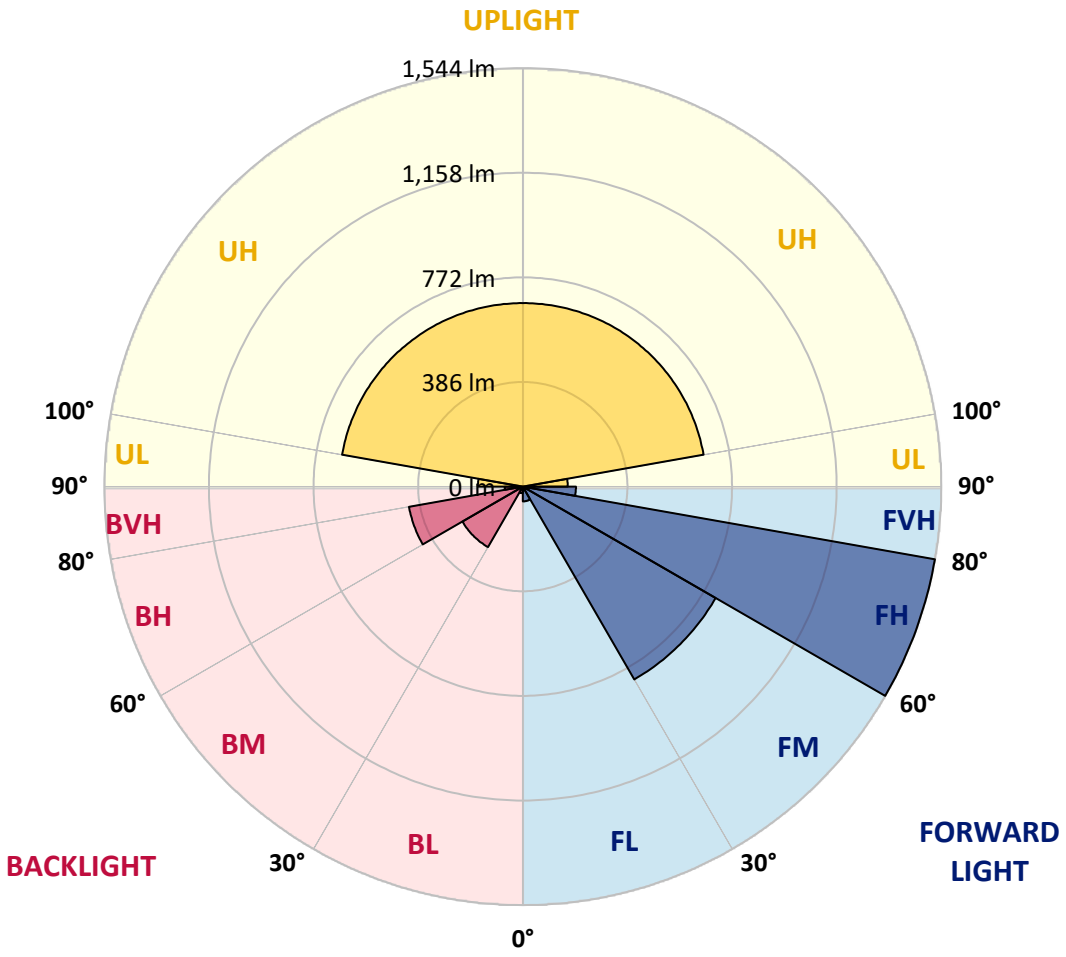
Scaled Data Report

REPORT NUMBER: P1046198
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	54.5	1.3			
FM	(30°-60°)	821.5	19.4			
FH	(60°-80°)	1544.1	36.5			G1/1800
FVH	(80°-90°)	196.0	4.6			G2/225
BL	(0°-30°)	23.7	0.6	B0/110		
BM	(30°-60°)	257.3	6.1	B1/1000		
BH	(60°-80°)	426.3	10.1	B1/500		G1/500
BVH	(80°-90°)	66.7	1.6			G1/100
UL	(90°-100°)	165.8	3.9		U3/500	
UH	(100°-180°)	677.2	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046198
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27.2	27.2	*27.2*	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	29.6	29.6	*29.6*	30.4	31.0	31.3	30.4	29.8	29.6	29.3	28.4
5°	42.4	42.7	*42.7*	43.6	43.0	43.6	42.4	41.6	40.1	38.3	36.9
7.5°	60.0	60.0	*59.7*	60.0	59.7	58.5	58.5	59.4	57.1	53.6	50.3
10°	81.4	81.9	*81.6*	80.5	78.7	77.3	77.3	78.4	74.9	68.8	64.1
12.5°	103.0	104.2	*103.0*	103.3	100.4	99.2	96.9	96.3	91.6	85.7	77.6
15°	119.1	120.0	*120.3*	121.2	120.9	117.1	113.0	108.6	104.8	99.5	91.0
17.5°	132.0	132.3	*132.9*	132.6	130.8	127.0	122.3	117.6	111.5	105.9	98.0
20°	144.6	145.7	*145.4*	145.2	144.3	141.3	135.8	129.1	123.8	115.6	107.4
22.5°	157.4	156.6	*157.1*	156.9	156.9	153.9	148.1	140.2	133.2	125.0	117.6
25°	172.4	172.1	*172.4*	171.5	170.3	168.9	161.5	152.5	144.6	136.1	125.8
27.5°	188.2	188.5	*188.8*	187.3	185.8	183.5	173.0	163.9	155.4	144.9	130.5
30°	205.7	204.8	*205.1*	203.1	202.2	194.9	184.7	173.8	164.5	150.4	136.4
32.5°	221.8	220.4	*220.1*	218.3	216.8	206.3	195.8	185.2	174.1	159.8	147.5
35°	244.4	247.3	*246.1*	246.1	249.9	233.8	221.5	211.3	199.3	184.4	171.5
37.5°	336.2	335.7	*332.1*	327.5	314.3	302.9	297.3	281.2	261.9	245.5	225.0
40°	380.7	379.0	*375.2*	365.8	356.4	343.0	334.5	324.5	314.6	285.6	252.8
42.5°	391.3	389.8	*390.7*	401.8	414.1	404.1	371.1	335.1	317.5	297.9	281.5
45°	448.9	453.9	*455.4*	455.1	446.3	435.7	421.4	399.7	369.3	341.5	307.3
47.5°	522.1	521.5	*525.0*	520.3	527.6	509.2	490.8	468.2	436.6	398.9	357.9
50°	713.5	707.3	*708.2*	710.0	698.8	685.4	668.7	656.1	594.4	540.8	478.5
52.5°	1017.5	1018.4	*1012.0*	1011.7	978.6	952.6	923.3	924.5	833.7	761.7	671.6
55°	1430.1	1430.7	*1407.6*	1426.6	1389.5	1386.0	1321.3	1237.9	1115.8	1017.8	927.1
57.5°	1944.0	1961.6	*1959.5*	1925.6	1868.8	1838.1	1733.6	1646.1	1473.5	1319.5	1196.3
60°	2381.8	2373.6	*2360.2*	2334.4	2164.4	2093.0	2016.0	1941.4	1798.3	1585.2	1400.9
62.5°	2506.8	2500.6	*2498.3*	2485.4	2351.1	2233.4	2136.6	2014.5	1918.9	1709.9	1522.0
64°	*2508.8*	*2514.4*	*2532.5*	*2501.8*	*2382.4*	*2256.9*	*2156.5*	*2031.8*	*1938.8*	*1732.7*	*1536.7*
65°	2504.1	2503.0	*2525.8*	2486.9	2380.9	2255.7	2144.2	2024.8	1932.6	1726.6	1532.9
67.5°	2378.6	2373.6	*2402.9*	2352.8	2260.4	2147.4	2038.0	1909.8	1828.7	1630.9	1443.3
70°	1951.9	1951.6	*1997.3*	1955.4	1927.9	1808.2	1696.4	1578.8	1492.2	1329.8	1172.9
72.5°	1495.7	1493.1	*1523.5*	1492.2	1478.1	1421.7	1317.2	1213.3	1130.8	1009.0	882.0
75°	1191.9	1193.1	*1177.0*	1146.3	1134.9	1109.7	1063.2	1001.1	932.1	821.4	704.4
77.5°	892.6	886.7	*893.7*	850.7	847.5	839.9	839.6	799.8	741.3	670.7	578.0
80°	594.9	598.5	*611.0*	599.6	602.8	600.2	616.6	574.5	530.0	488.4	439.0
82.5°	384.8	394.2	*397.7*	413.5	427.3	433.4	410.9	368.4	340.6	325.4	303.5
85°	369.3	373.1	*371.1*	361.7	357.0	349.4	349.1	335.7	321.3	292.1	256.4
87.5°	340.6	345.0	*343.3*	335.1	324.5	323.7	321.6	312.2	305.5	282.4	250.8
90°	290.6	290.9	*292.3*	290.9	288.8	287.4	275.7	270.1	266.0	246.1	224.7
92.5°	252.0	255.5	*254.6*	252.0	245.2	249.3	236.7	226.2	223.9	210.1	193.7
95°	231.5	233.8	*234.4*	229.7	223.3	221.8	212.2	204.0	200.2	191.1	171.2
97.5°	192.0	190.5	*189.3*	188.2	183.8	179.1	173.0	162.7	159.5	149.5	138.4
100°	163.9	164.5	*163.9*	163.0	159.2	156.9	152.5	144.3	140.8	134.3	126.7
102.5°	156.3	156.6	*156.6*	156.9	150.4	145.2	140.5	134.6	131.4	125.8	118.5
105°	149.2	149.2	*149.8*	150.1	143.7	136.1	129.3	126.1	124.7	118.2	110.6
107.5°	140.5	140.2	*141.1*	137.2	130.8	127.6	120.6	116.8	116.2	111.2	103.3

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

Scaled Data Report

REPORT NUMBER: P1046198
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	153.3	150.1	*149.5*	140.2	131.4	124.1	120.6	117.1	115.0	108.3	103.3
112.5°	200.8	196.4	*195.2*	186.4	155.7	153.1	149.8	148.7	147.5	138.4	129.9
115°	221.2	221.2	*224.7*	221.2	199.9	175.6	172.1	166.8	168.9	157.7	145.4
117.5°	177.0	189.3	*192.9*	182.3	183.2	167.7	143.7	135.5	131.4	128.2	133.7
120°	198.7	206.9	*203.4*	184.1	175.3	166.2	167.4	164.5	149.8	129.6	131.7
122.5°	296.2	303.8	*306.4*	307.9	312.0	305.8	292.1	272.7	258.1	233.8	220.1
125°	414.7	409.1	*408.5*	411.2	414.4	406.5	400.6	396.8	387.8	355.9	311.1
127.5°	380.7	378.1	*382.5*	381.9	389.8	376.3	373.7	375.8	372.2	354.4	328.3
130°	273.0	277.7	*280.9*	291.5	307.0	295.0	283.9	267.2	266.0	274.8	261.0
132.5°	229.1	231.2	*237.0*	250.8	262.5	257.5	241.1	225.0	223.9	231.2	230.0
135°	202.5	204.0	*204.8*	205.4	203.4	208.1	204.6	198.7	194.9	195.2	191.7
137.5°	180.9	181.4	*180.9*	176.2	170.6	169.7	178.5	178.8	175.3	169.1	164.5
140°	156.9	156.9	*154.5*	151.3	150.4	150.7	155.7	156.6	152.5	147.5	140.5
142.5°	122.6	121.2	*121.4*	126.7	136.1	134.0	127.6	119.4	118.2	124.1	121.7
145°	132.6	132.3	*131.4*	131.7	129.3	125.5	123.2	120.6	115.9	112.1	108.3
147.5°	133.7	132.6	*133.2*	132.0	130.8	129.1	128.2	129.3	128.2	125.5	120.6
150°	105.6	106.2	*106.8*	105.4	106.5	107.1	106.5	105.6	107.1	103.9	101.8
152.5°	82.5	82.2	*81.9*	82.5	82.2	83.4	83.7	83.4	82.8	82.5	79.3
155°	77.6	78.4	*77.8*	76.1	77.3	78.1	79.3	80.2	79.3	77.8	74.9
157.5°	71.4	71.4	*71.4*	71.4	71.7	72.0	73.5	74.0	74.0	73.2	71.1
160°	66.4	66.7	*66.7*	66.7	67.3	67.9	68.8	69.4	69.9	69.4	68.2
162.5°	63.5	63.2	*63.2*	63.5	63.5	64.4	65.3	66.4	66.7	66.1	66.1
165°	61.7	61.7	*61.7*	62.0	62.6	63.2	64.4	64.7	65.0	65.6	65.6
167.5°	63.8	63.8	*63.8*	64.1	64.7	65.6	66.1	66.7	67.9	68.2	68.2
170°	67.0	67.0	*67.0*	67.3	67.6	67.9	68.2	68.8	69.1	69.6	69.4
172.5°	70.2	69.9	*70.2*	70.2	70.2	70.2	70.2	70.5	70.8	70.8	70.8
175°	73.7	73.7	*74.0*	73.7	73.2	73.2	73.2	73.5	73.5	73.5	73.2
177.5°	77.3	77.3	*77.0*	77.3	77.0	76.7	76.4	76.1	75.5	75.5	74.9
180°	75.2	75.2	*75.2*	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2

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

Scaled Data Report

REPORT NUMBER: P1046198
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	27.8	26.6	25.2	23.4	21.7	20.5	19.3	17.9	17.0	16.7	16.7
5°	35.1	34.2	32.8	30.4	29.0	26.3	24.0	22.5	21.1	19.6	18.4
7.5°	49.2	48.9	49.7	51.5	49.2	43.0	36.6	33.1	33.4	35.1	36.0
10°	61.7	60.0	60.3	64.4	60.6	48.9	40.1	36.9	38.6	42.1	42.7
12.5°	74.9	72.3	70.2	69.4	60.9	47.7	39.8	36.0	36.9	39.8	39.8
15°	86.9	83.7	79.0	72.9	62.9	51.2	41.6	36.0	36.0	35.7	35.1
17.5°	93.6	90.1	81.6	72.0	61.2	50.6	40.7	35.1	32.2	29.8	29.6
20°	104.2	102.4	91.6	77.8	62.9	49.5	39.2	33.7	30.4	28.7	28.1
22.5°	114.4	109.4	95.4	81.4	64.4	49.2	38.6	33.4	30.4	29.0	28.4
25°	120.0	113.8	99.8	85.5	66.4	49.5	39.2	33.9	30.7	29.3	29.0
27.5°	124.4	117.9	104.8	89.3	69.1	50.6	41.0	34.8	31.3	29.6	29.3
30°	130.2	124.1	110.6	93.9	71.4	53.3	43.0	36.3	32.2	30.4	30.1
32.5°	141.3	133.7	117.9	98.0	74.3	55.9	45.7	38.6	33.7	31.0	31.0
35°	164.5	156.3	135.2	109.2	77.6	57.9	47.4	40.1	34.8	31.9	31.6
37.5°	213.0	202.8	177.0	136.7	85.5	60.9	49.5	41.0	35.4	32.8	32.2
40°	236.5	217.4	188.5	152.8	98.6	65.6	52.7	43.0	36.3	33.1	32.8
42.5°	264.8	249.0	209.2	156.9	109.4	76.4	58.2	45.9	38.0	33.7	33.4
45°	292.6	277.1	241.7	190.8	131.7	93.4	67.3	50.9	40.7	35.1	34.2
47.5°	341.2	315.8	273.3	223.3	162.1	118.2	82.8	57.9	45.1	36.9	35.7
50°	461.5	444.8	379.8	303.2	211.0	153.9	112.7	74.3	50.0	38.0	36.3
52.5°	622.5	590.8	517.1	423.2	306.1	228.6	164.8	110.3	61.5	39.2	36.9
55°	877.3	828.2	743.3	580.6	439.3	346.5	257.8	181.1	93.6	41.8	37.2
57.5°	1149.8	1105.3	1004.1	802.4	595.2	441.3	339.5	255.8	131.4	47.7	40.4
60°	1332.1	1254.6	1139.0	944.1	719.6	518.9	379.8	268.4	136.4	48.9	42.1
62.5°	1436.6	1356.4	1185.5	961.6	741.8	536.1	397.4	245.8	108.9	47.4	43.9
64°	*1448.9*	*1371.6*	*1186.1*	*944.9*	*718.1*	*518.3*	*385.1*	*230.6*	*94.5*	*46.8*	*44.8*
65°	1439.2	1367.8	1171.7	925.0	686.2	495.2	370.5	215.4	84.0	46.2	45.1
67.5°	1345.3	1282.7	1077.2	839.0	610.2	427.6	304.1	165.6	65.8	45.1	44.5
70°	1089.5	1060.8	885.5	676.9	482.3	340.9	239.7	126.7	55.9	43.9	43.3
72.5°	817.3	781.1	660.8	516.5	375.8	265.1	182.0	97.4	49.5	42.7	42.1
75°	655.2	619.8	523.8	406.8	279.5	198.1	134.6	72.9	46.5	42.4	41.8
77.5°	541.7	513.3	430.8	309.6	198.7	141.9	98.9	59.4	45.7	42.7	42.1
80°	416.7	412.0	336.5	225.3	140.8	105.9	79.9	55.6	45.9	43.9	43.3
82.5°	292.3	280.6	237.6	167.7	121.7	96.9	76.7	56.5	48.3	46.5	46.2
85°	240.8	231.8	203.4	161.2	115.9	93.6	75.8	57.9	50.6	49.2	48.6
87.5°	238.2	228.3	201.3	154.2	110.0	89.3	72.3	56.5	50.3	49.5	50.0
90°	216.3	208.9	184.1	142.2	109.2	90.7	75.5	62.3	55.9	53.0	52.4
92.5°	189.3	184.9	167.4	138.1	113.3	96.0	82.2	69.1	63.2	61.5	60.6
95°	165.3	163.6	149.2	125.5	104.5	90.4	77.8	66.4	61.5	59.1	58.8
97.5°	135.5	133.4	122.3	106.8	91.3	79.6	70.2	61.5	57.9	57.7	57.4
100°	123.8	122.3	114.4	104.5	92.2	83.4	75.2	67.9	65.0	65.0	65.3
102.5°	114.4	113.5	106.5	96.3	86.6	78.4	71.7	65.0	61.5	61.5	59.4
105°	106.8	105.4	98.9	90.7	80.8	73.2	66.7	61.7	57.9	56.8	56.8
107.5°	100.1	98.3	93.1	85.2	77.8	70.5	64.7	60.0	57.4	56.5	56.5

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

Scaled Data Report

REPORT NUMBER: P1046198
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	100.4	98.9	92.8	84.3	77.6	72.0	67.3	62.9	60.6	58.8	58.8
112.5°	123.5	117.3	106.5	93.9	86.3	79.0	71.7	65.6	62.6	62.0	61.5
115°	139.9	133.7	120.3	103.9	90.1	79.9	72.6	67.9	65.3	67.0	67.9
117.5°	140.5	129.3	103.6	95.7	85.7	77.3	72.3	69.4	67.6	69.4	69.4
120°	143.1	120.6	106.8	103.6	91.9	79.9	74.3	73.7	72.0	68.5	68.5
122.5°	212.8	192.3	170.3	142.5	118.2	106.8	96.9	79.6	71.4	67.6	67.3
125°	293.2	271.9	237.6	200.5	165.3	128.8	95.7	81.6	73.2	68.5	67.6
127.5°	311.7	295.0	249.9	205.4	155.7	120.0	96.0	84.0	75.5	70.5	69.6
130°	251.4	238.2	207.8	171.5	137.0	110.9	93.6	81.6	73.5	68.5	67.3
132.5°	223.6	211.3	181.4	148.4	121.4	101.3	85.7	74.0	65.8	62.3	62.3
135°	187.0	178.5	151.9	132.3	113.0	96.0	80.8	69.9	63.2	61.2	61.2
137.5°	160.4	153.6	134.6	119.1	104.2	89.5	76.4	67.6	62.9	60.9	60.6
140°	137.2	132.9	121.7	106.5	92.2	77.8	67.6	62.6	60.6	59.7	59.4
142.5°	119.4	116.2	106.2	90.4	76.4	67.6	63.8	62.3	60.3	58.2	57.9
145°	104.5	101.8	90.4	81.4	74.6	71.1	68.2	63.8	58.8	56.2	55.9
147.5°	117.3	113.3	103.3	92.8	81.9	73.7	67.3	61.5	56.8	55.0	55.0
150°	101.0	98.0	91.9	83.7	74.6	67.0	61.5	57.7	55.9	55.6	55.6
152.5°	78.4	77.0	75.2	71.1	65.3	60.3	56.8	55.0	55.6	56.8	57.1
155°	73.7	73.2	71.4	67.6	63.8	59.1	56.2	55.3	56.2	57.4	57.7
157.5°	70.2	69.9	68.5	65.0	61.5	58.5	56.5	55.9	56.8	57.7	57.7
160°	67.3	67.0	65.0	62.3	59.7	57.7	56.2	56.2	57.1	57.7	57.7
162.5°	65.6	65.3	63.8	61.7	60.0	58.8	58.5	58.5	58.8	59.1	59.1
165°	65.6	65.3	63.8	62.0	60.9	60.9	61.5	61.7	60.9	60.3	60.6
167.5°	68.2	67.6	65.8	64.4	64.1	64.4	65.3	65.3	64.7	63.8	63.5
170°	69.1	68.8	68.2	67.6	67.6	67.6	67.9	68.2	68.2	68.5	68.5
172.5°	70.8	70.8	70.5	70.5	70.8	70.5	70.5	71.1	71.7	72.0	72.3
175°	73.2	72.9	73.2	73.2	73.5	73.2	72.9	73.5	74.3	74.9	74.9
177.5°	74.9	74.9	74.6	74.3	74.3	74.3	74.3	74.6	74.6	74.6	74.3
180°	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

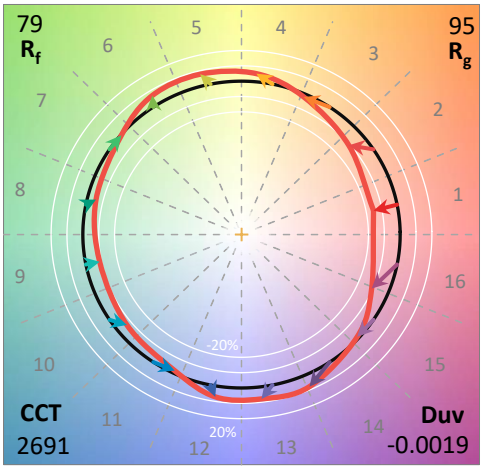
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

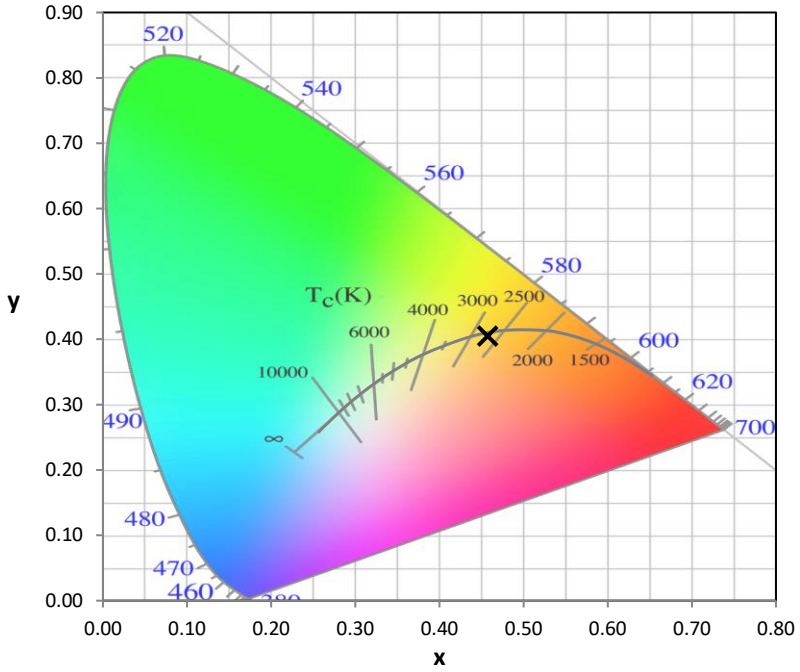
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

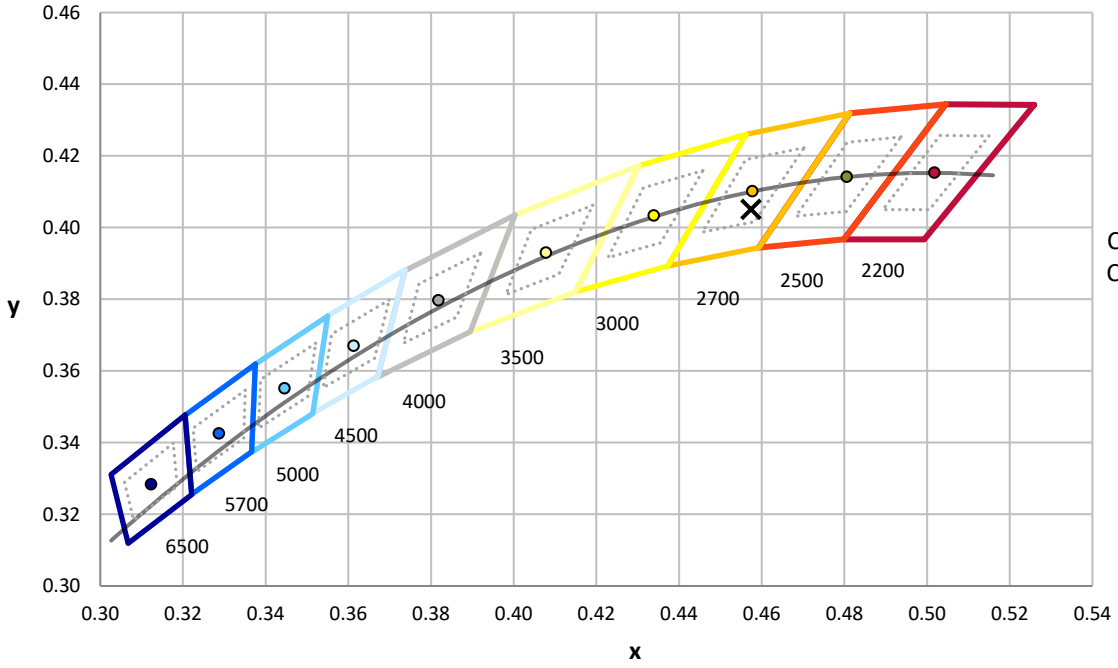
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

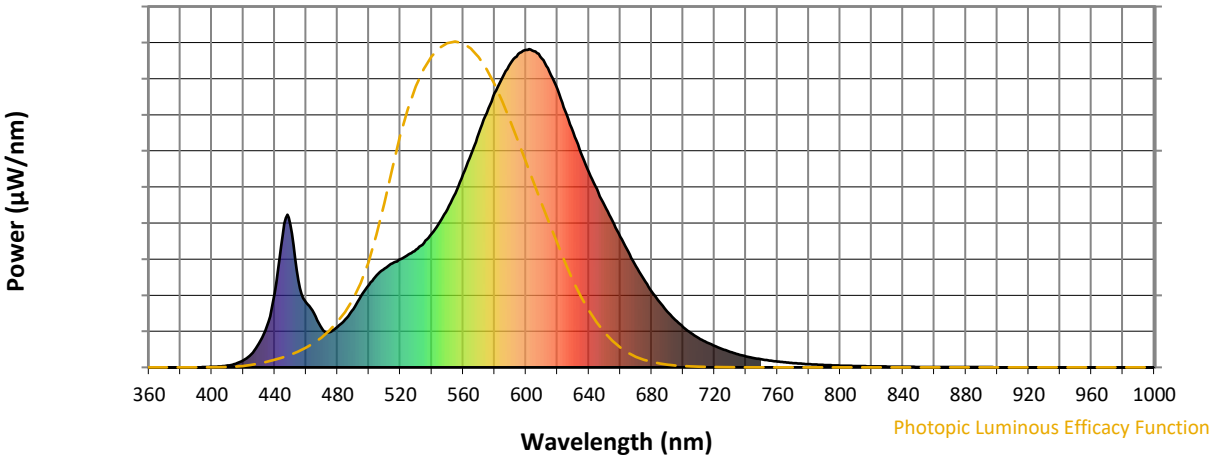


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

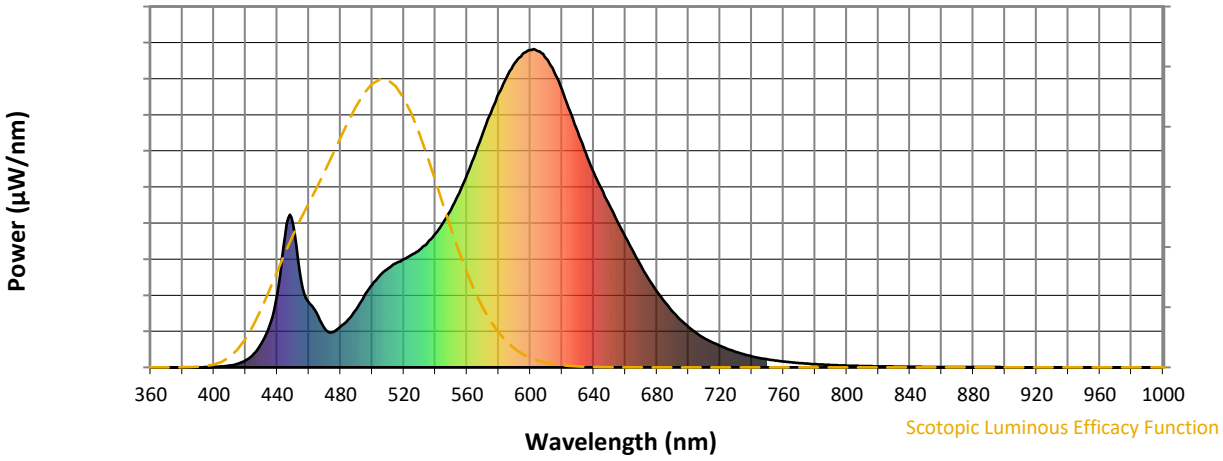


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

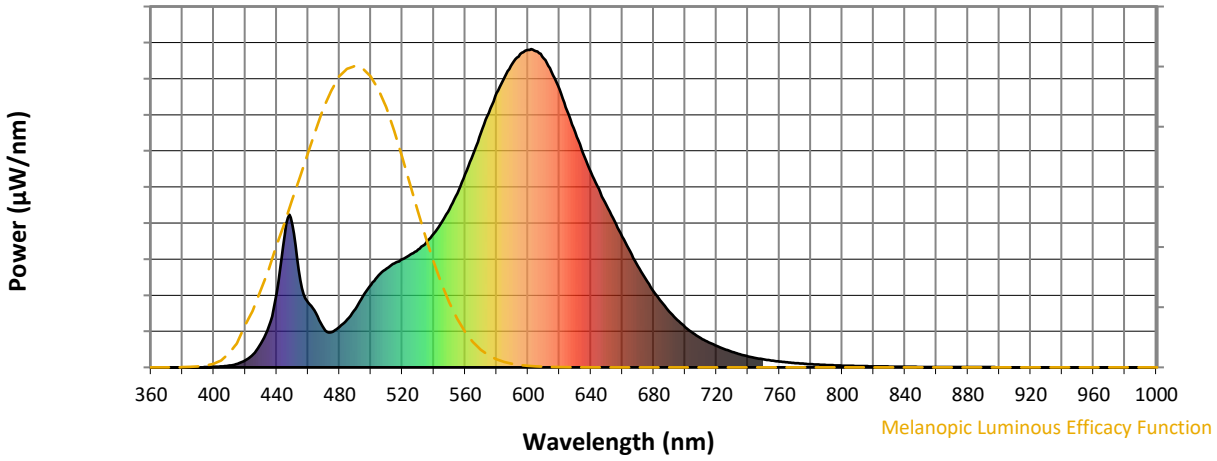


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

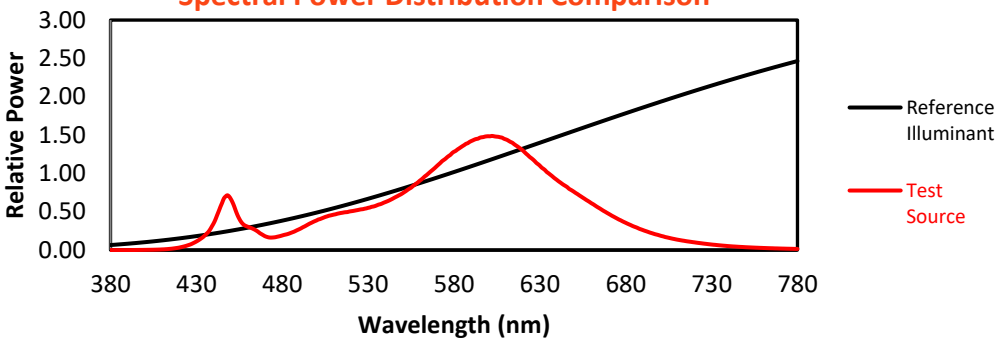
REPORT NUMBER: SP1-2501-332-8

TM-30-18

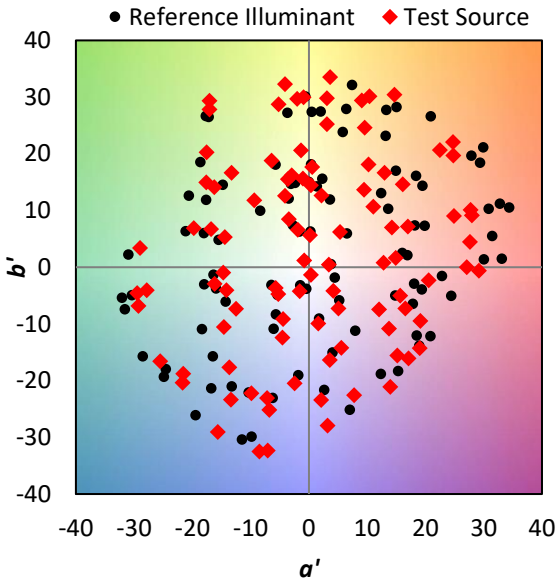
Summary

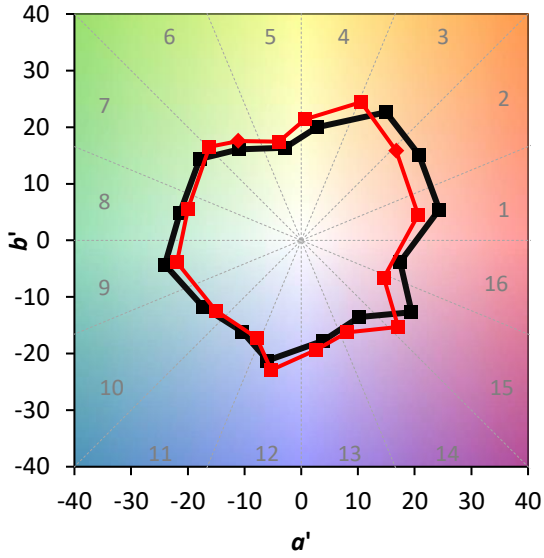
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

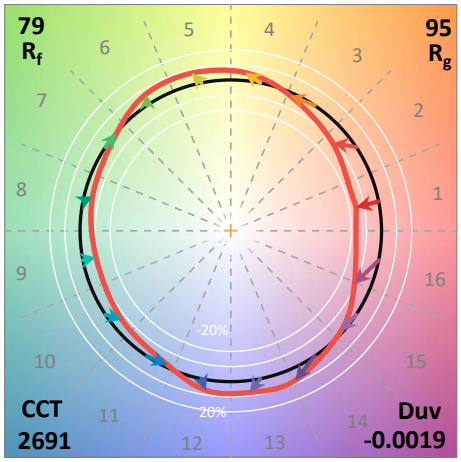
Spectral Power Distribution Comparison

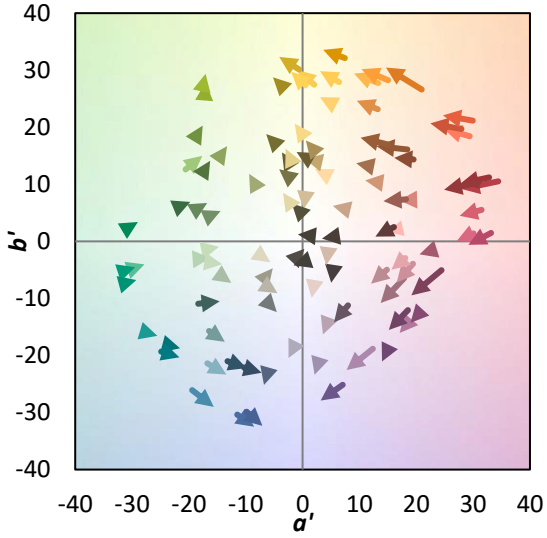


Color Vector Graphics







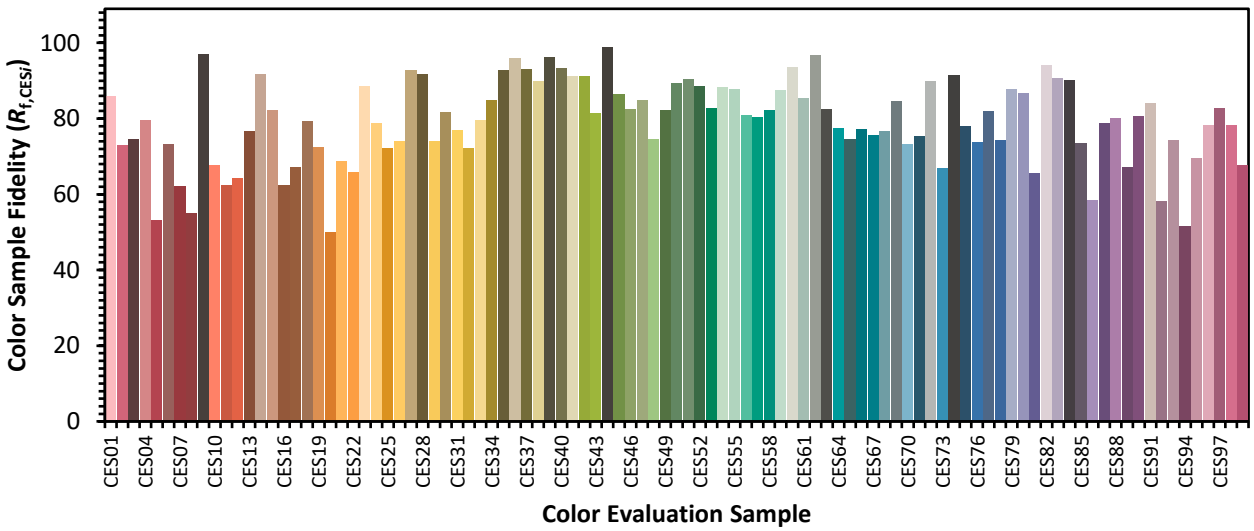


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

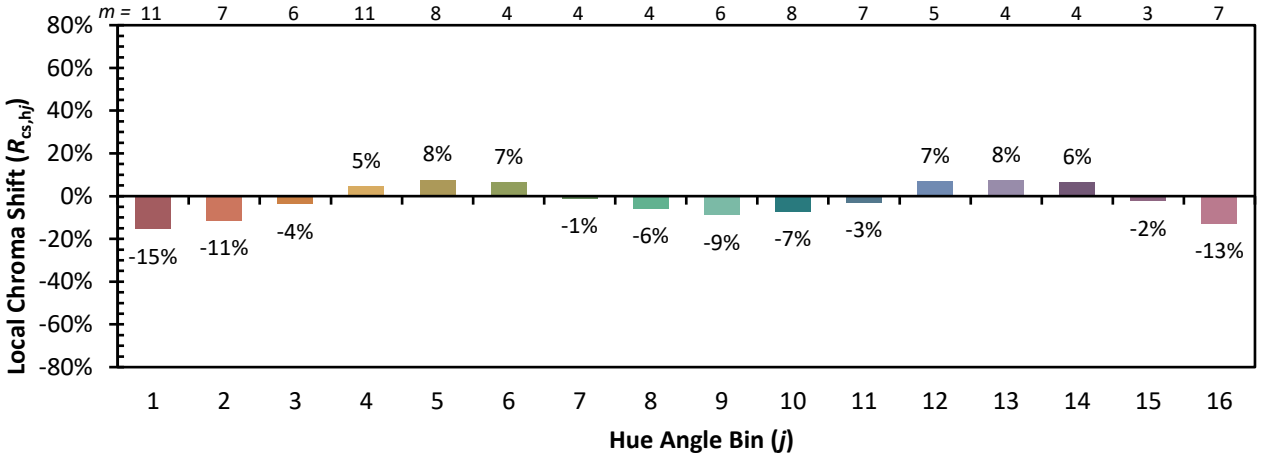
CES01 = 87	CES26 = 74	CES51 = 90	CES76 = 74
CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

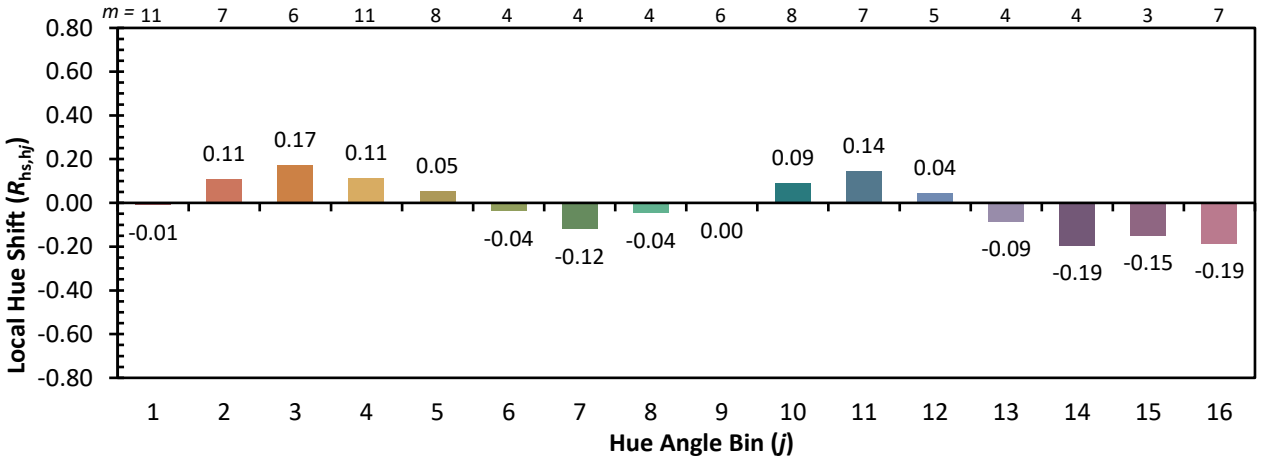


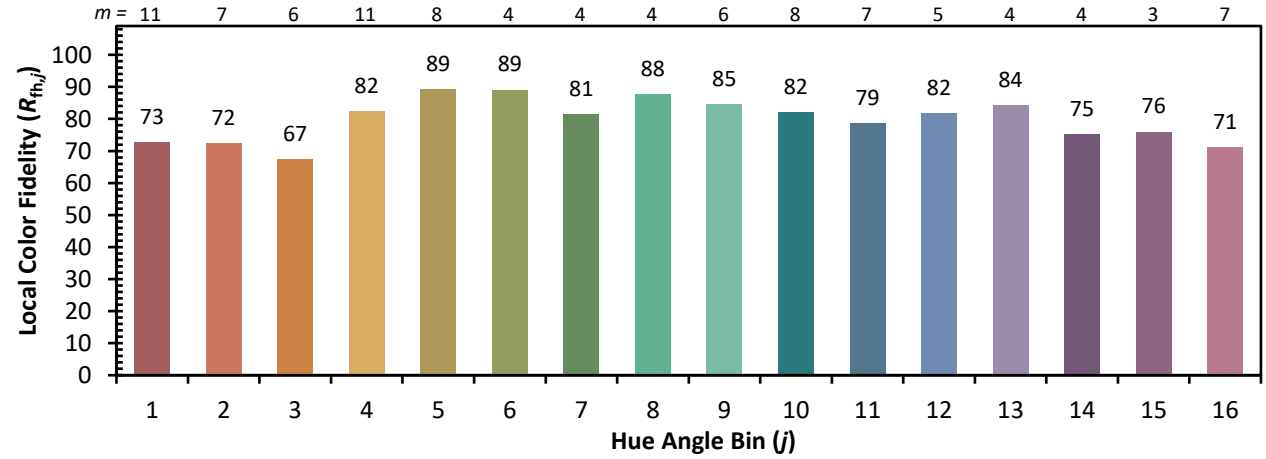
REPORT NUMBER: SP1-2501-332-8

TM-30-18

Color Rendition by Hue-Angle Bin



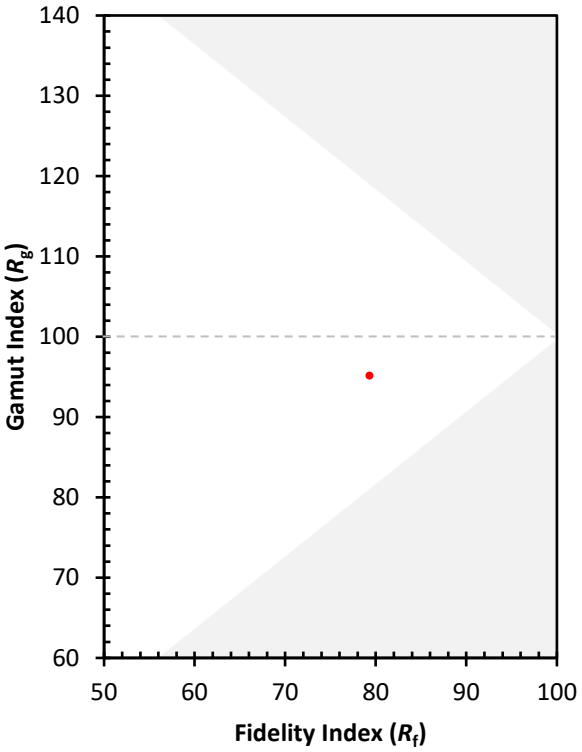


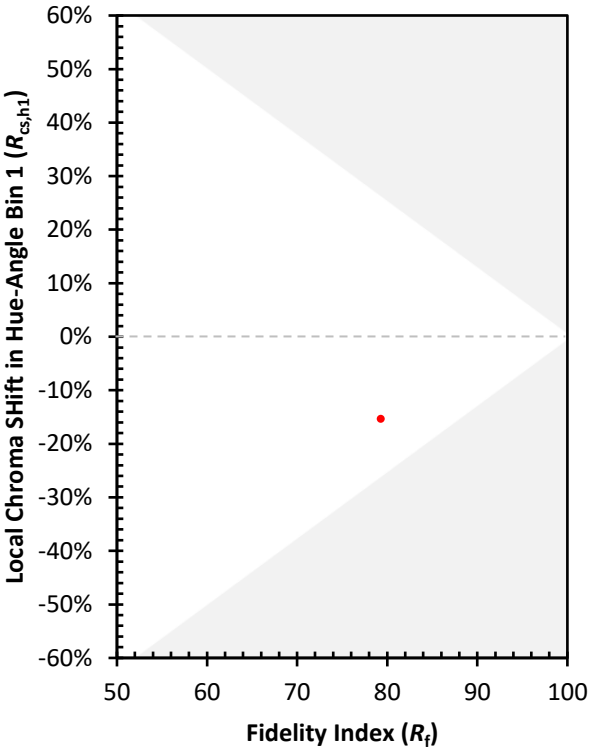


REPORT NUMBER: SP1-2501-332-8

TM-30-18

Measure Comparisons





(END OF REPORT)