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: P1046436

Luminaire Tested: **FFX-CLB-80-740-U-FR-T4-UPLR**

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:	P1046436
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-740-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12779.3 lumens
Efficiency:	N/A
Efficacy:	156.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - G4

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

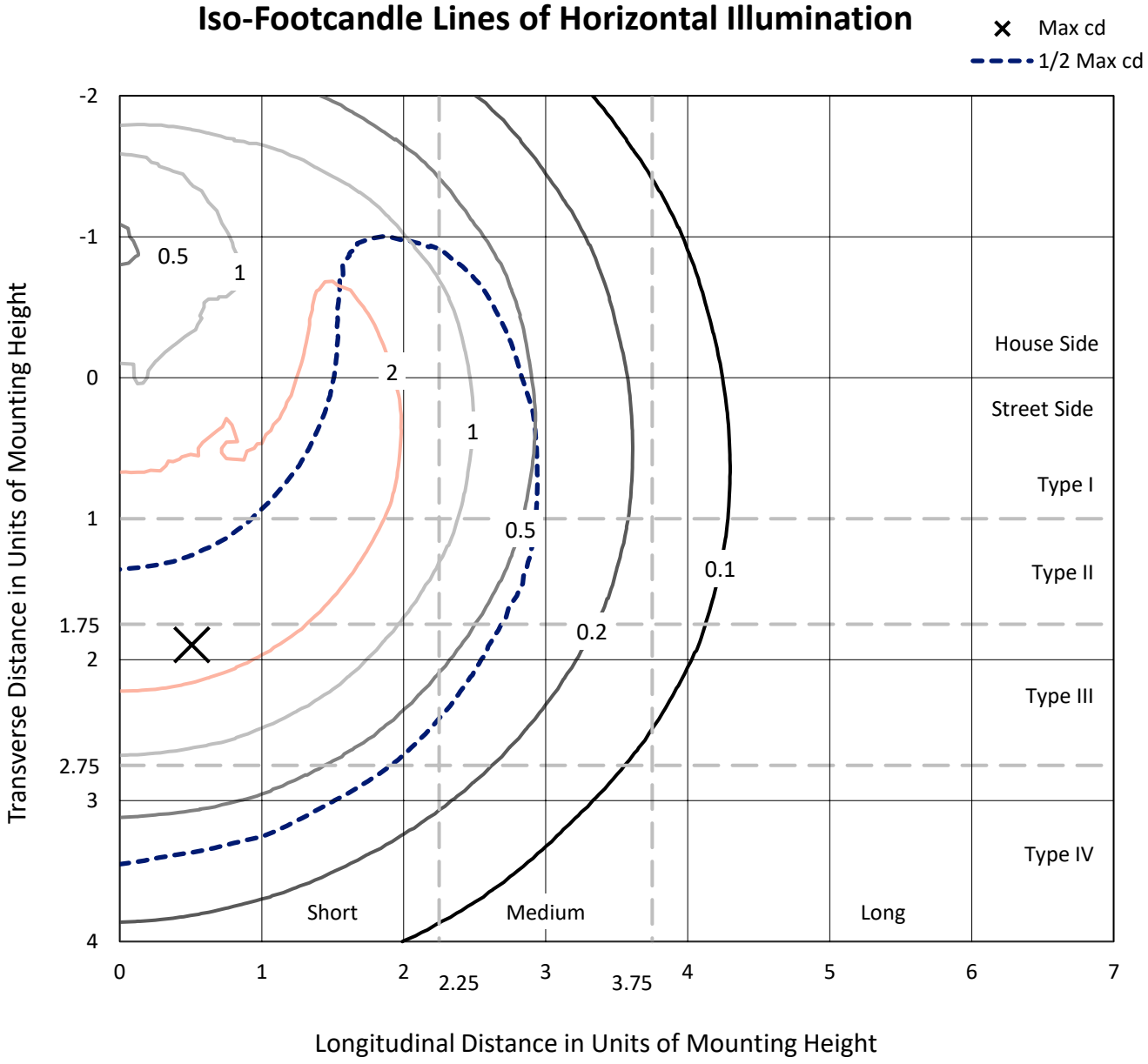


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046436
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4-UPLR

Iso-Footcandle Lines of Horizontal Illumination



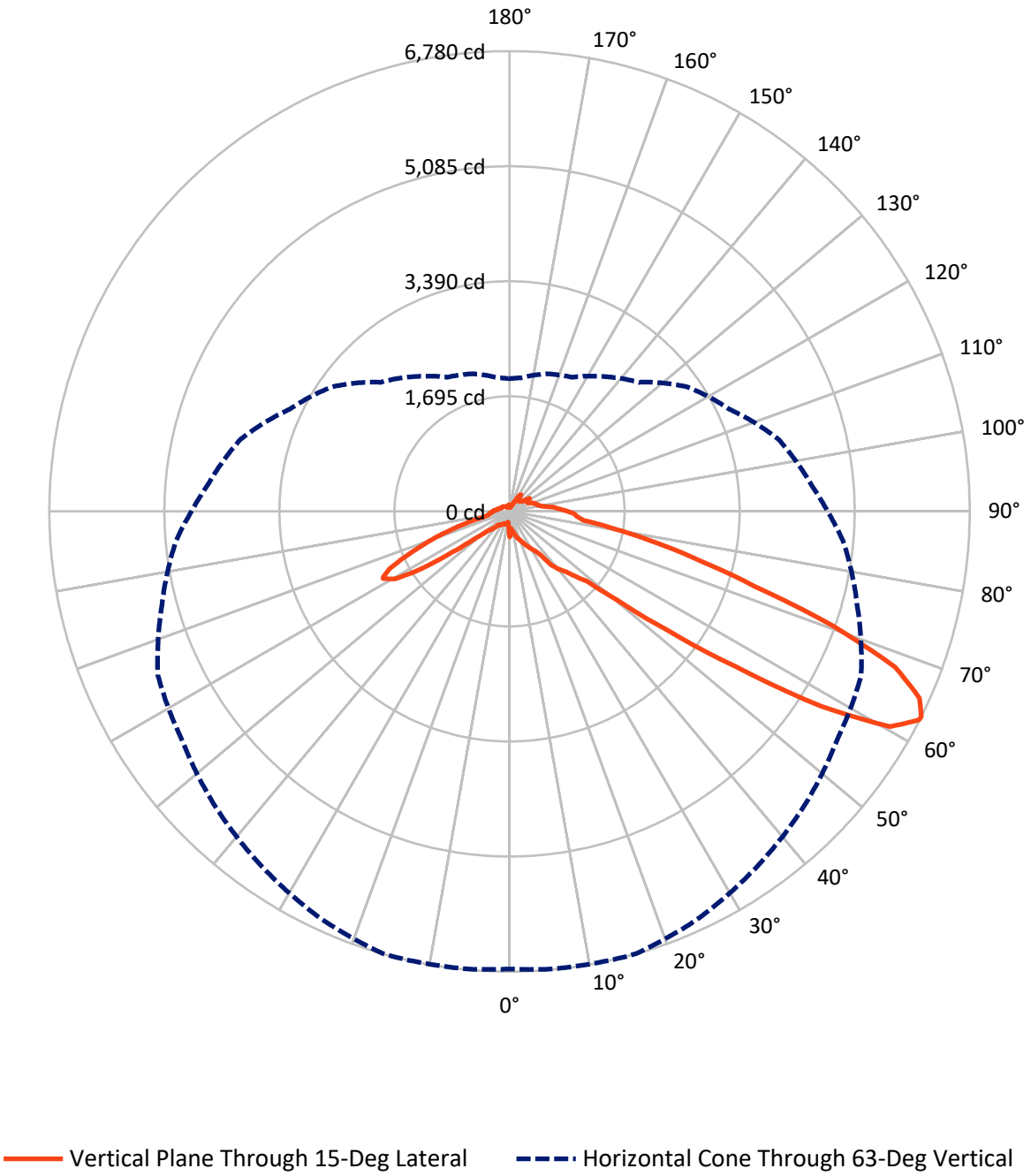
Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046436
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4-UPLR

Luminous Intensity Polar Plot



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

Scaled Data Report

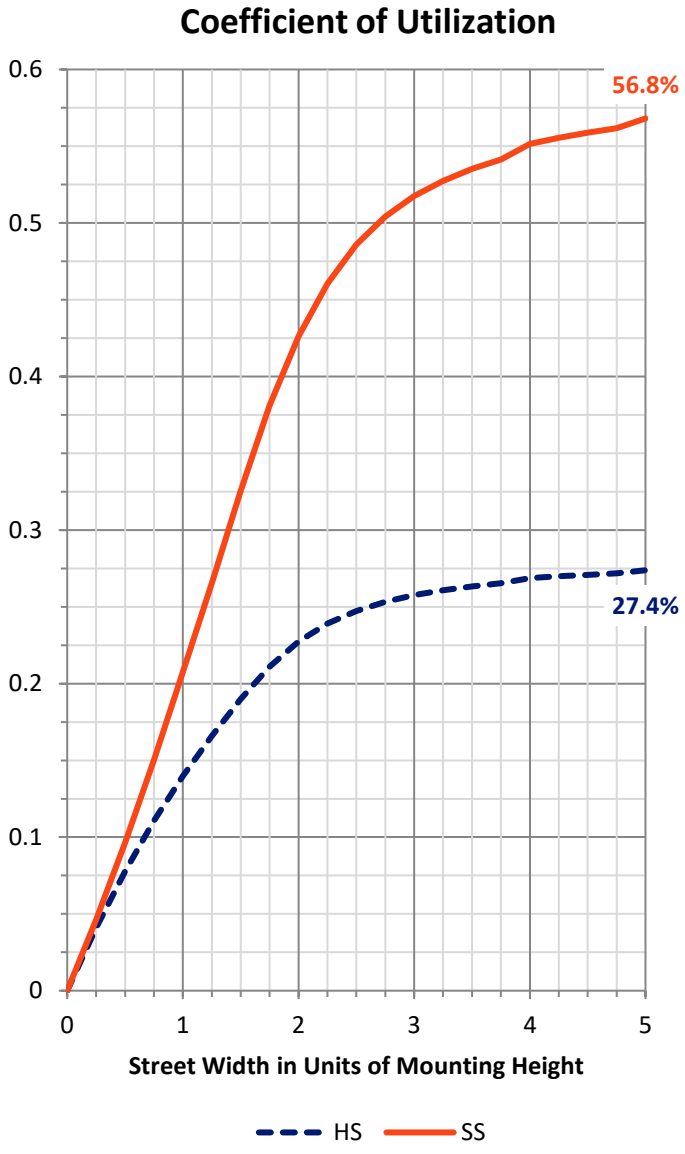
REPORT NUMBER: P1046436
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4-UPLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3614.2	588.9	4203.0
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	7567.6	1008.7	8576.3
	% Fixture	59.2	7.9	67.1
Total	Lumens	11181.8	1597.5	12779.3
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	0.2
10°-20°	83.7	0.7
20°-30°	181.3	1.4
30°-40°	372.7	2.9
40°-50°	768.5	6.0
50°-60°	2528.1	19.8
60°-70°	4185.8	32.8
70°-80°	2195.4	17.2
80°-90°	843.0	6.6
90°-100°	509.2	4.0
100°-110°	320.8	2.5
110°-120°	237.5	1.9
120°-130°	202.2	1.6
130°-140°	131.9	1.0
140°-150°	114.6	0.9
150°-160°	52.4	0.4
160°-170°	21.5	0.2
170°-180°	7.4	0.1
0°-90°	11181.8	87.5
0°-180°	12779.3	100.0



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

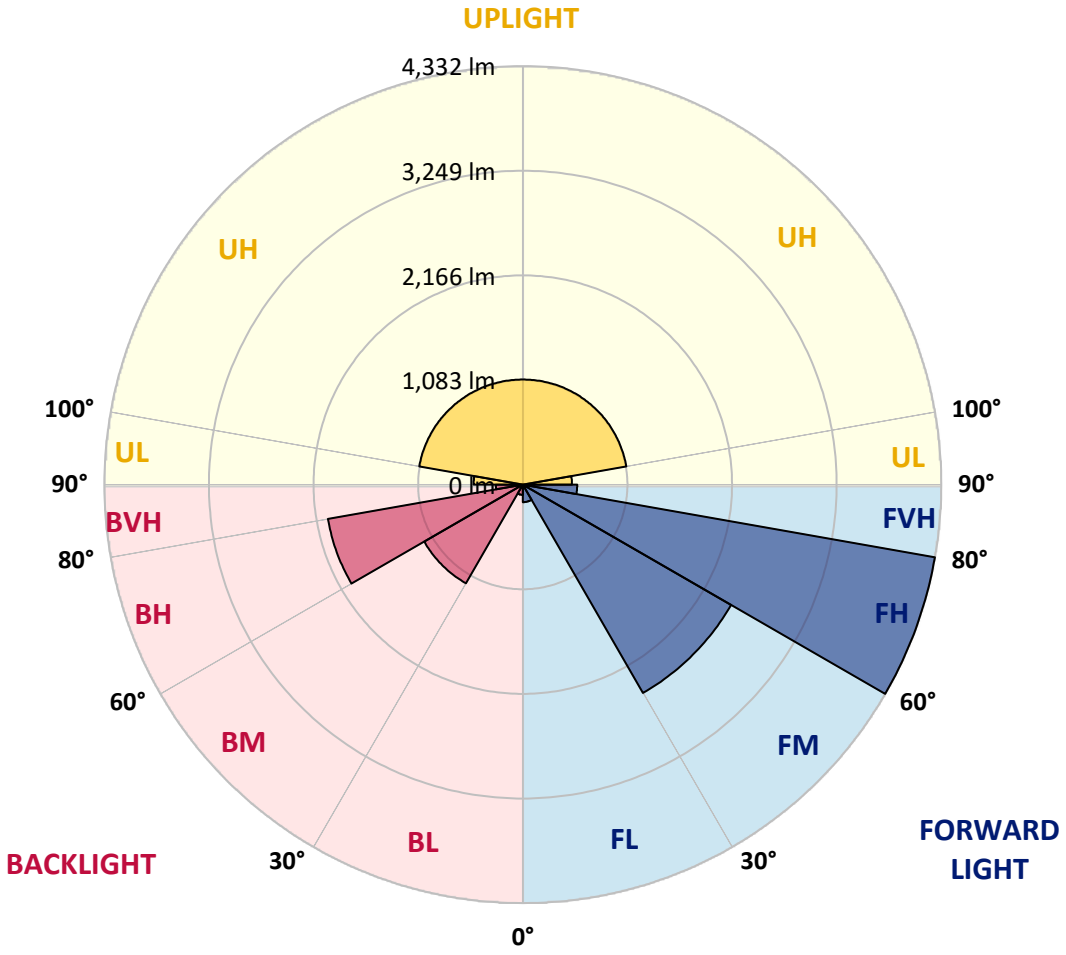
Scaled Data Report

REPORT NUMBER: P1046436
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	181.8	1.4			
FM	(30°-60°)	2490.1	19.5			
FH	(60°-80°)	4332.4	33.9			G2/5000
FVH	(80°-90°)	563.3	4.4			G4/750
BL	(0°-30°)	106.4	0.8	B0/110		
BM	(30°-60°)	1179.2	9.2	B2/2500		
BH	(60°-80°)	2048.8	16.0	B3/2500		G3/2500
BVH	(80°-90°)	279.8	2.2			G3/500
UL	(90°-100°)	509.2	4.0		U4/1000	
UH	(100°-180°)	1088.3	8.5		U5	

BUG Rating: B3-U5-G4
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046436
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4
2.5°	232.3	232.3	265.9	271.7	303.6	313.7	296.1	282.6	315.4	382.5	393.4
5°	252.5	257.5	256.6	255.8	257.5	287.7	318.7	304.5	249.9	198.8	198.8
7.5°	286.0	287.7	286.8	286.0	275.1	257.5	249.9	272.6	286.8	244.1	204.6
10°	309.5	307.8	307.0	306.1	307.8	314.5	312.0	284.3	256.6	242.4	234.0
12.5°	353.9	354.8	352.3	350.6	348.9	346.4	343.9	349.7	334.6	293.5	265.9
15°	387.5	387.5	394.2	392.5	392.5	384.1	372.4	355.6	335.5	324.6	300.3
17.5°	422.7	423.6	422.7	422.7	419.4	408.5	395.9	380.8	359.8	341.4	320.4
20°	457.1	457.1	456.3	455.4	454.6	446.2	430.3	410.1	390.8	373.2	351.4
22.5°	493.2	495.7	497.4	495.7	493.2	484.8	467.2	447.9	429.4	404.3	380.8
25°	544.3	545.2	543.5	541.8	538.5	527.6	514.1	494.0	471.4	444.5	413.5
27.5°	593.0	594.6	593.8	593.8	587.1	577.9	564.5	537.6	512.5	481.4	449.6
30°	648.3	646.6	642.5	643.3	639.1	631.6	616.5	593.0	561.1	524.2	489.0
32.5°	702.8	702.8	697.0	694.5	694.5	684.4	667.6	643.3	613.1	573.7	539.3
35°	762.4	777.5	792.6	798.5	798.5	784.2	764.1	732.2	706.2	665.1	622.3
37.5°	1048.4	1039.2	1002.3	1006.5	993.9	988.0	974.6	947.7	911.7	848.8	783.4
40°	1149.0	1147.4	1119.7	1116.3	1110.5	1091.2	1076.9	1058.5	1045.9	970.4	872.3
42.5°	1166.7	1175.9	1212.8	1222.0	1269.8	1240.5	1183.4	1079.4	1053.4	996.4	955.3
45°	1364.6	1367.9	1367.9	1369.6	1357.0	1335.2	1327.7	1261.4	1209.4	1127.2	1050.1
47.5°	1561.7	1569.2	1539.9	1563.4	1596.1	1551.6	1531.5	1477.0	1405.7	1341.9	1215.3
50°	2019.6	2049.0	2054.8	2055.7	2069.9	2066.6	2036.4	1960.9	1889.6	1743.7	1602.8
52.5°	2867.6	2896.1	2908.7	2878.5	2834.0	2813.9	2821.4	2790.4	2625.2	2468.3	2182.3
55°	3974.7	4024.2	4024.2	4056.0	4042.6	3947.0	3941.1	3738.1	3471.4	3297.0	3047.9
57.5°	5455.8	5381.2	5423.1	5468.4	5376.2	5275.5	5125.4	4913.2	4523.2	4222.1	3861.4
60°	6553.7	6523.5	6440.5	6389.3	6158.7	5959.1	5840.8	5685.6	5389.6	4993.7	4511.4
62.5°	6755.0	6776.8	6770.9	6770.9	6586.4	6347.4	6108.4	5881.1	5697.4	5289.8	4908.2
63°	6742.4	6769.3	6780.2	6776.8	6610.7	6375.1	6137.7	5886.9	5716.7	5300.7	4931.6
65°	6635.1	6657.7	6638.4	6631.7	6526.9	6367.5	6100.8	5852.5	5697.4	5252.0	4935.0
67.5°	6204.0	6198.9	6126.8	6159.5	6093.3	6004.4	5755.3	5510.4	5403.0	4916.5	4624.7
70°	5010.5	4975.3	5054.1	5101.1	5028.9	4993.7	4697.6	4536.6	4398.2	4028.3	3792.7
72.5°	3830.4	3757.4	3770.9	3813.6	3723.1	3698.7	3572.1	3439.6	3373.3	3142.7	2881.0
75°	3003.4	2964.0	2891.0	2902.8	2828.1	2803.8	2790.4	2751.8	2725.8	2533.8	2274.6
77.5°	2246.1	2244.4	2183.2	2173.9	2120.3	2160.5	2144.6	2202.5	2189.9	2037.2	1840.1
80°	1571.8	1562.5	1578.5	1572.6	1560.0	1583.5	1558.3	1590.2	1590.2	1490.4	1407.4
82.5°	1025.7	1044.2	1094.5	1106.3	1124.7	1180.1	1091.2	1044.2	1031.6	1020.7	980.5
85°	1018.2	1023.2	1001.4	1003.9	995.6	974.6	990.5	998.1	985.5	925.1	836.2
87.5°	959.5	966.2	948.6	953.6	922.6	929.3	939.4	945.2	939.4	885.7	811.9
90°	808.5	816.1	832.0	832.0	834.5	836.2	820.3	829.5	823.6	772.5	718.8
92.5°	717.1	723.8	724.6	725.5	718.8	740.6	714.6	698.6	694.5	653.4	614.8
95°	655.9	648.3	646.6	648.3	645.0	644.1	627.4	615.6	610.6	577.9	540.1
97.5°	513.3	517.5	515.8	520.0	511.6	510.8	496.5	481.4	476.4	449.6	424.4
100°	450.4	449.6	451.2	452.1	447.0	441.2	431.1	420.2	414.3	394.2	369.9
102.5°	422.7	421.9	425.2	426.1	421.9	417.7	409.3	402.6	397.6	379.1	352.3
105°	405.1	402.6	406.8	406.8	397.6	395.0	389.2	388.3	385.0	363.2	337.2
107.5°	380.8	376.6	381.6	380.8	377.4	374.9	369.9	366.5	364.0	345.6	316.2

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

Scaled Data Report

REPORT NUMBER: P1046436
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	358.1	352.3	*354.8*	356.5	359.0	357.3	353.1	346.4	339.7	324.6	300.3
112.5°	316.2	319.6	*318.7*	318.7	321.2	322.1	314.5	310.3	306.1	294.4	278.5
115°	300.3	300.3	*300.3*	300.3	293.5	291.0	283.5	278.5	277.6	263.4	253.3
117.5°	287.7	289.4	*293.5*	296.1	304.5	299.4	282.6	271.7	267.5	261.7	250.8
120°	338.8	333.0	*327.1*	326.3	327.1	323.7	320.4	312.8	302.8	286.8	256.6
122.5°	363.2	348.1	*350.6*	349.7	343.9	346.4	347.2	348.1	341.4	316.2	269.2
125°	304.5	300.3	*302.8*	305.3	306.1	305.3	303.6	311.2	301.9	293.5	258.3
127.5°	243.2	241.5	*236.5*	235.7	234.0	234.8	234.8	237.4	229.0	220.6	218.9
130°	231.5	228.1	*229.0*	229.8	229.0	223.9	220.6	216.4	215.5	207.2	195.4
132.5°	209.7	211.4	*225.6*	227.3	237.4	231.5	213.9	202.1	203.8	208.0	203.8
135°	196.3	195.4	*206.3*	207.2	222.3	218.1	203.8	190.4	190.4	200.5	196.3
137.5°	200.5	202.1	*203.0*	203.8	203.0	202.1	201.3	195.4	191.2	190.4	180.3
140°	215.5	214.7	*206.3*	207.2	206.3	206.3	211.4	215.5	201.3	188.7	171.9
142.5°	225.6	228.1	*224.8*	229.0	236.5	229.8	221.4	210.5	202.1	193.7	183.7
145°	306.1	300.3	*297.7*	296.1	291.0	276.8	268.4	257.5	247.4	234.0	217.2
147.5°	277.6	279.3	*274.3*	275.9	269.2	264.2	262.5	263.4	260.0	252.5	234.8
150°	220.6	222.3	*217.2*	214.7	212.2	212.2	212.2	213.9	209.7	204.6	196.3
152.5°	154.3	152.6	*151.0*	150.1	148.5	146.8	146.8	147.6	143.4	141.7	135.0
155°	141.7	140.9	*134.2*	132.5	134.2	135.9	136.7	134.2	130.8	127.5	118.3
157.5°	110.7	108.2	*107.4*	109.0	109.0	108.2	106.5	108.2	104.8	104.0	102.3
160°	90.6	89.7	*90.6*	90.6	91.4	91.4	90.6	90.6	88.9	89.7	89.7
162.5°	77.2	77.2	*77.2*	76.3	78.0	78.8	78.0	78.0	78.8	81.4	83.0
165°	66.3	66.3	*67.1*	67.1	67.9	67.9	68.8	69.6	71.3	77.2	82.2
167.5°	62.1	62.1	*62.9*	62.9	63.7	64.6	66.3	69.6	74.6	81.4	83.9
170°	61.2	61.2	*61.2*	61.2	62.1	62.9	66.3	71.3	77.2	81.4	78.8
172.5°	63.7	63.7	*64.6*	64.6	64.6	67.9	70.5	74.6	78.0	78.8	76.3
175°	66.3	65.4	*66.3*	66.3	67.1	69.6	73.0	74.6	76.3	77.2	78.0
177.5°	64.6	64.6	*64.6*	65.4	65.4	66.3	67.9	68.8	70.5	72.1	74.6
180°	62.9	62.9	*62.9*	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9

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

Scaled Data Report

REPORT NUMBER: P1046436
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4
2.5°	393.4	382.5	297.7	255.0	291.0	361.5	368.2	318.7	247.4	171.9	156.8
5°	209.7	221.4	247.4	246.6	229.8	214.7	196.3	184.5	203.8	195.4	200.5
7.5°	189.5	178.6	182.8	213.9	208.8	158.5	143.4	140.1	156.8	195.4	191.2
10°	230.6	227.3	214.7	189.5	181.2	187.9	193.7	189.5	174.5	151.8	148.5
12.5°	260.8	256.6	258.3	274.3	255.0	211.4	187.0	179.5	187.9	221.4	228.1
15°	290.2	282.6	271.7	249.1	230.6	218.9	204.6	189.5	194.6	185.4	182.0
17.5°	310.3	298.6	275.9	259.2	240.7	225.6	213.0	197.1	186.2	183.7	184.5
20°	337.2	324.6	300.3	281.0	258.3	238.2	216.4	199.6	188.7	184.5	184.5
22.5°	368.2	353.1	325.4	298.6	273.4	247.4	221.4	203.0	192.9	188.7	187.0
25°	400.9	385.8	351.4	322.9	291.0	262.5	235.7	212.2	201.3	196.3	192.1
27.5°	434.5	416.0	381.6	346.4	312.0	278.5	249.9	225.6	210.5	202.1	203.0
30°	471.4	456.3	417.7	377.4	334.6	295.2	267.5	239.9	221.4	212.2	213.0
32.5°	520.8	496.5	450.4	404.3	362.3	318.7	283.5	251.6	231.5	225.6	226.5
35°	603.0	572.0	515.8	452.9	396.7	345.6	301.1	263.4	239.9	230.6	229.8
37.5°	751.5	709.6	645.0	571.2	489.8	406.8	334.6	276.8	247.4	232.3	229.8
40°	823.6	766.6	685.2	621.5	566.1	494.8	412.6	325.4	260.0	240.7	238.2
42.5°	920.1	872.3	766.6	642.5	568.6	509.1	451.2	395.0	313.7	263.4	254.1
45°	1013.2	970.4	887.4	765.7	655.9	562.8	476.4	415.2	364.8	313.7	309.5
47.5°	1170.0	1124.7	986.3	878.1	762.4	656.7	566.1	465.5	400.1	364.0	364.0
50°	1563.4	1480.3	1343.6	1177.6	991.4	820.3	691.9	568.6	489.8	435.3	432.8
52.5°	2112.7	1995.3	1794.0	1610.3	1390.6	1192.7	993.0	778.3	663.4	584.6	583.7
55°	2906.1	2786.2	2517.0	2163.9	1894.7	1658.1	1451.0	1215.3	1034.1	906.6	896.6
57.5°	3752.4	3651.8	3377.5	2938.9	2514.5	2095.9	1845.2	1657.3	1570.1	1481.2	1462.7
60°	4300.9	4128.2	3878.2	3459.7	3048.7	2515.3	2204.1	1988.6	1959.2	1939.9	1915.6
62.5°	4646.5	4442.7	4071.1	3569.6	3192.1	2687.2	2408.8	2179.0	2110.2	2007.0	1977.7
63°	*4685.9*	*4464.5*	*4102.2*	*3567.1*	*3196.3*	*2689.8*	*2423.9*	*2179.0*	*2098.5*	*1974.3*	*1955.0*
65°	4667.4	4462.0	4100.5	3515.1	3099.0	2640.3	2380.3	2079.2	1950.8	1786.5	1753.8
67.5°	4385.6	4166.7	3826.2	3250.9	2875.1	2407.1	2121.1	1801.6	1607.0	1445.9	1408.2
70°	3570.4	3434.5	3135.1	2637.8	2352.6	1987.8	1737.0	1486.2	1275.7	1106.3	1063.5
72.5°	2720.8	2578.2	2353.4	2030.5	1820.0	1569.2	1331.9	1139.0	965.4	853.0	856.3
75°	2158.9	2023.0	1837.6	1625.4	1453.5	1230.4	995.6	804.3	681.0	613.9	608.1
77.5°	1738.7	1644.7	1482.8	1287.4	1139.0	905.8	697.0	530.1	438.6	400.1	389.2
80°	1340.3	1274.8	1154.1	982.1	827.8	636.6	474.7	374.9	326.3	293.5	287.7
82.5°	953.6	914.2	813.6	693.6	588.8	489.0	416.0	350.6	300.3	272.6	264.2
85°	795.9	759.0	695.3	620.6	553.6	480.6	403.4	333.8	286.8	265.0	254.1
87.5°	772.5	738.1	676.8	597.2	524.2	445.4	367.4	301.9	268.4	247.4	240.7
90°	691.9	665.9	612.3	539.3	466.3	385.8	317.9	271.7	245.7	229.0	221.4
92.5°	596.3	573.7	529.2	468.0	406.8	348.9	296.9	258.3	232.3	215.5	209.7
95°	518.3	504.1	467.2	415.2	370.7	322.9	278.5	241.5	214.7	199.6	193.7
97.5°	413.5	396.7	369.9	333.8	300.3	266.7	234.0	208.8	189.5	179.5	174.5
100°	359.8	348.9	324.6	296.1	267.5	238.2	213.0	193.7	181.2	172.8	168.6
102.5°	338.8	331.3	308.6	280.1	253.3	224.8	199.6	182.0	172.8	165.2	161.9
105°	319.6	313.7	296.1	270.1	244.1	213.0	184.5	169.4	161.0	156.0	153.5
107.5°	299.4	292.7	275.9	250.8	228.1	201.3	176.1	157.7	146.8	140.9	140.1

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

Scaled Data Report

REPORT NUMBER: P1046436
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	282.6	277.6	259.2	239.0	217.2	192.1	170.3	151.0	138.4	131.7	130.8
112.5°	265.0	259.2	240.7	221.4	203.0	181.2	161.9	145.1	133.4	126.6	125.8
115°	241.5	236.5	223.1	204.6	189.5	168.6	152.6	137.5	128.3	121.6	120.8
117.5°	244.1	229.8	211.4	194.6	181.2	166.1	151.8	140.1	125.8	118.3	118.3
120°	247.4	234.0	215.5	201.3	193.7	182.0	160.2	143.4	124.1	116.6	115.7
122.5°	244.1	245.7	235.7	221.4	206.3	186.2	159.4	140.9	121.6	115.7	116.6
125°	236.5	244.1	229.8	210.5	190.4	171.1	148.5	131.7	119.9	115.7	114.9
127.5°	213.9	212.2	193.7	179.5	165.2	149.3	135.0	125.0	116.6	111.5	109.0
130°	188.7	187.9	180.3	168.6	154.3	140.1	127.5	120.8	112.4	105.7	104.0
132.5°	198.8	196.3	180.3	161.0	145.1	133.4	125.0	117.4	105.7	98.1	97.3
135°	187.9	186.2	170.3	151.0	136.7	130.8	125.0	114.1	99.8	93.9	93.1
137.5°	171.9	165.2	151.8	140.1	133.4	131.7	124.1	111.5	98.1	91.4	90.6
140°	163.5	158.5	148.5	140.9	133.4	124.1	113.2	101.5	92.3	87.2	86.4
142.5°	173.6	171.9	156.8	143.4	131.7	120.8	109.0	101.5	91.4	84.7	83.9
145°	205.5	197.1	178.6	160.2	150.1	135.9	120.8	104.8	86.4	76.3	73.8
147.5°	224.8	217.2	198.8	178.6	156.8	134.2	110.7	90.6	76.3	68.8	67.1
150°	186.2	182.8	171.1	152.6	134.2	113.2	93.9	79.7	70.5	65.4	65.4
152.5°	130.8	130.0	125.0	114.1	102.3	90.6	80.5	72.1	67.1	63.7	63.7
155°	115.7	114.1	110.7	100.6	92.3	82.2	74.6	69.6	66.3	63.7	63.7
157.5°	99.8	98.1	97.3	89.7	83.0	76.3	70.5	66.3	63.7	62.1	61.2
160°	88.9	86.4	83.9	79.7	75.5	72.1	69.6	66.3	63.7	62.1	62.1
162.5°	83.0	81.4	77.2	73.8	72.1	72.1	73.0	71.3	66.3	63.7	62.9
165°	83.0	80.5	74.6	71.3	71.3	75.5	79.7	76.3	72.1	67.1	66.3
167.5°	83.9	82.2	76.3	73.8	76.3	81.4	85.5	84.7	78.8	74.6	74.6
170°	78.0	77.2	78.0	80.5	83.0	83.9	85.5	84.7	86.4	92.3	92.3
172.5°	75.5	76.3	80.5	84.7	89.7	89.7	85.5	84.7	92.3	100.6	102.3
175°	78.8	80.5	84.7	89.7	93.9	93.9	89.7	90.6	98.1	105.7	107.4
177.5°	75.5	76.3	78.0	77.2	78.8	74.6	76.3	74.6	77.2	77.2	77.2
180°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9

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: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

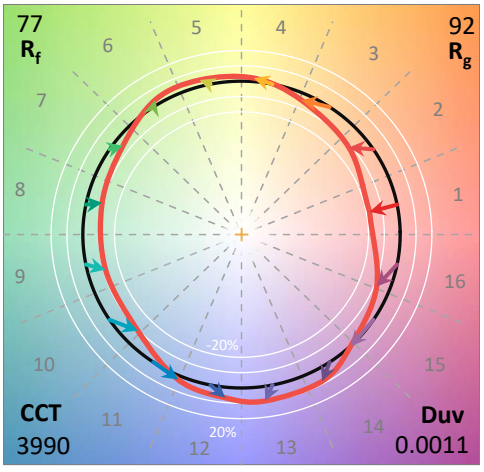
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3990	CRI (Ra):	73.9		
CIE u':	0.2247	R1:	69.6	R9:	-36.4
CIE v':	0.5031	R2:	83.0	R10:	60.9
Duv:	0.0011	R3:	93.1	R11:	66.8
CIE x:	0.3816	R4:	70.6	R12:	52.5
CIE y:	0.3798	R5:	70.6	R13:	72.5
CIE z:	0.2386	R6:	76.4	R14:	96.4
Peak Wavelength (nm):	450	R7:	79.8	R15:	61.3
Dominant Wavelength (nm):	578	R8:	48.1		
Purity:	28.50862				

Rf:	77.5
Rg:	91.9



Test Conditions

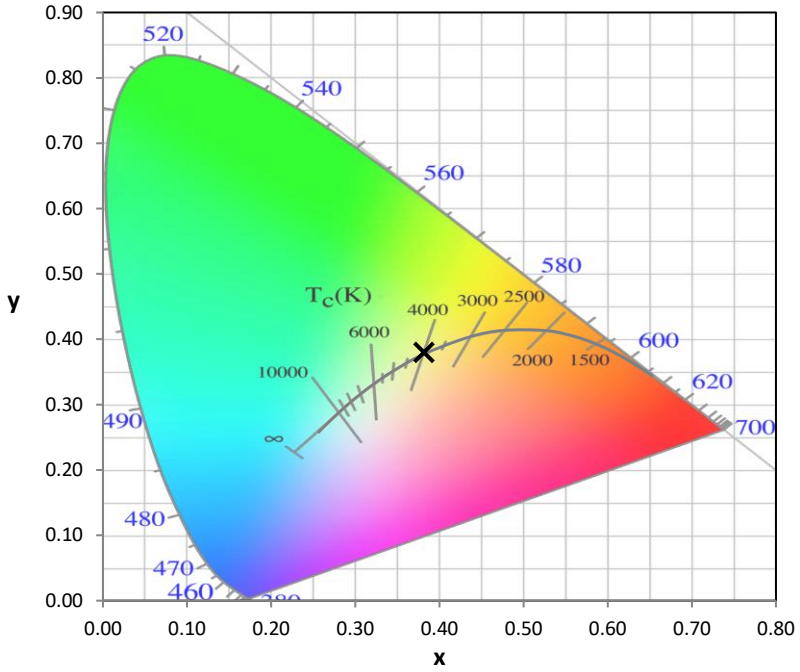
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

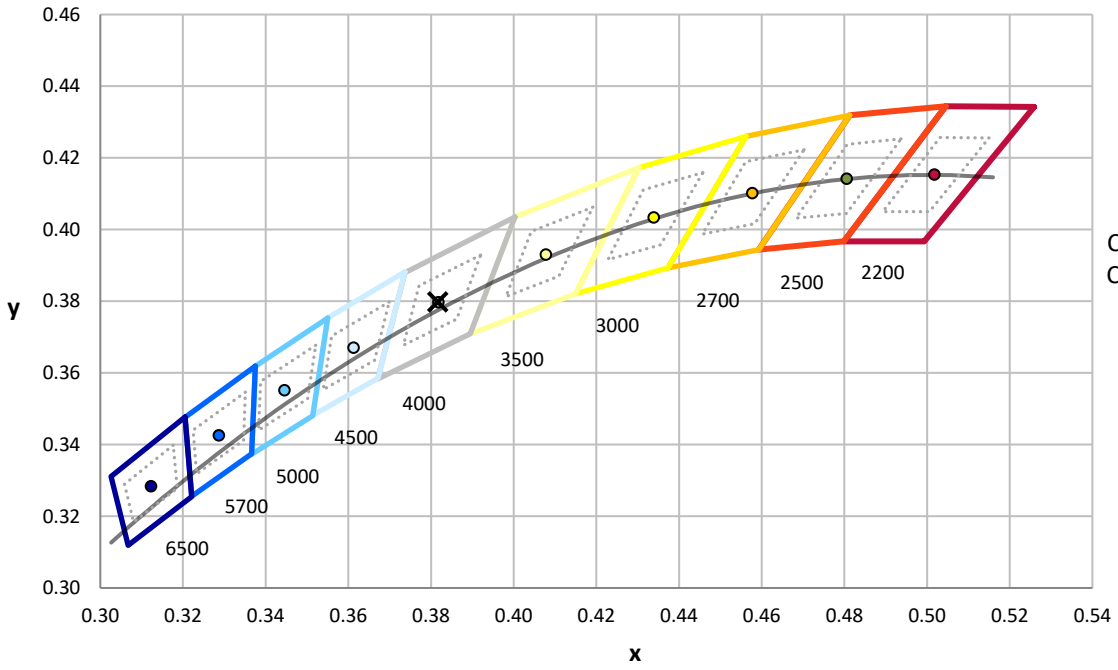
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

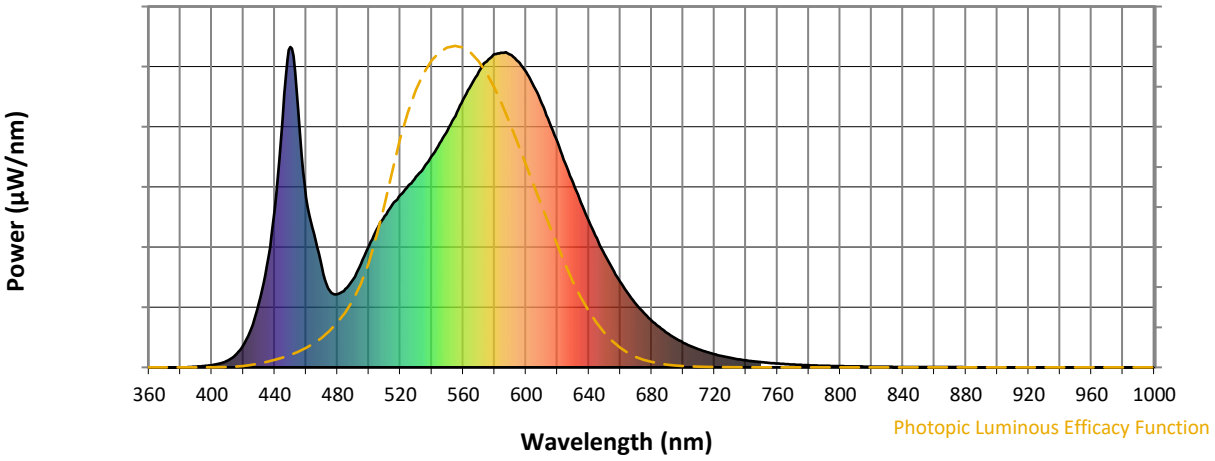


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

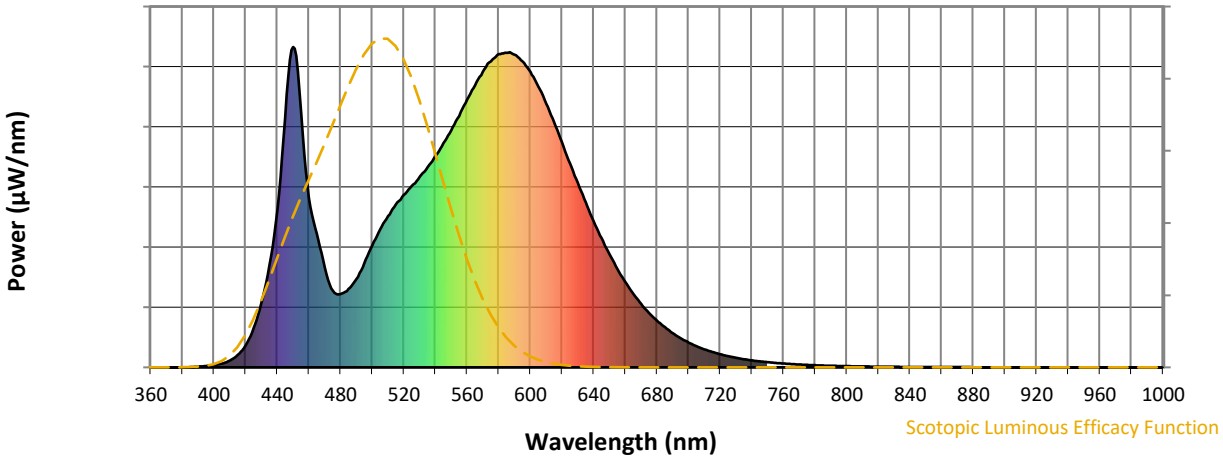


Photopic Lumens: NR

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

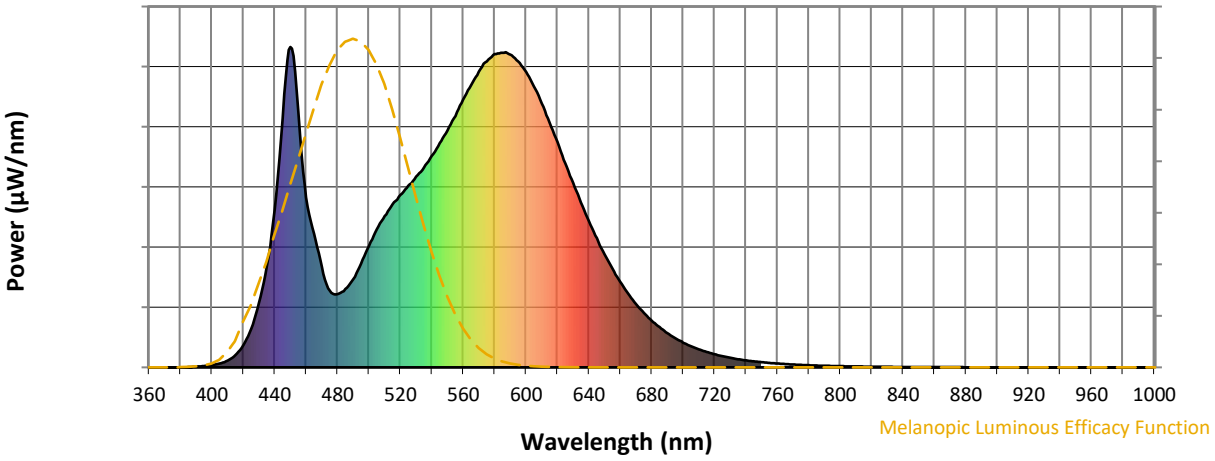


Scotopic Lumens: NR **S/P: 1.59**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.21**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

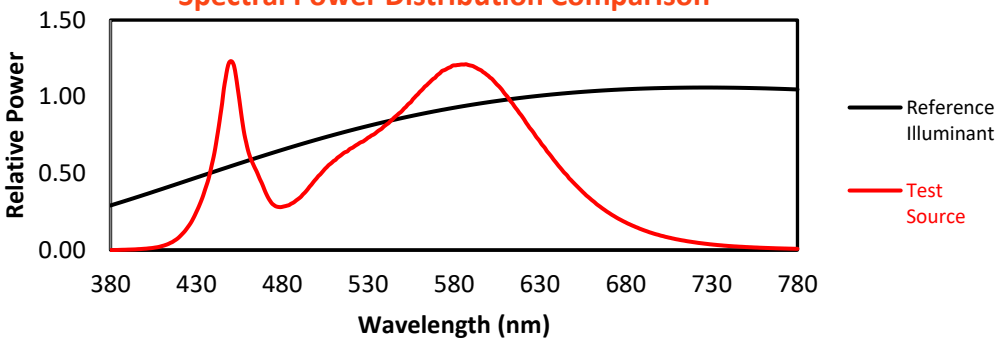
REPORT NUMBER: SP1-2501-332-1

TM-30-18

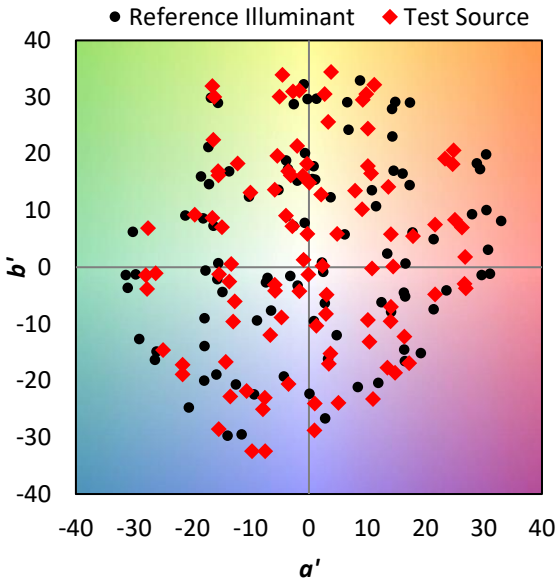
Summary

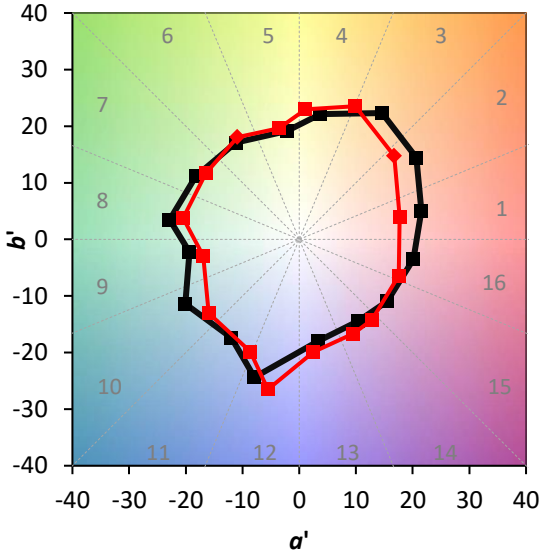
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

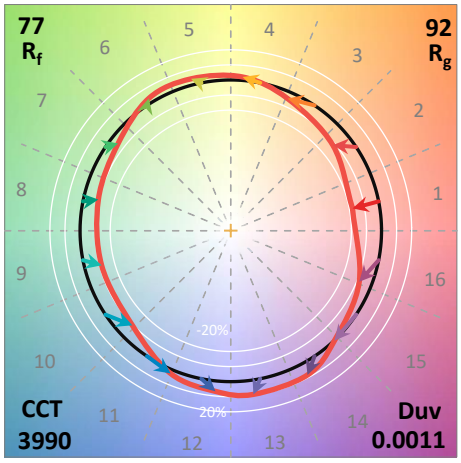
Spectral Power Distribution Comparison

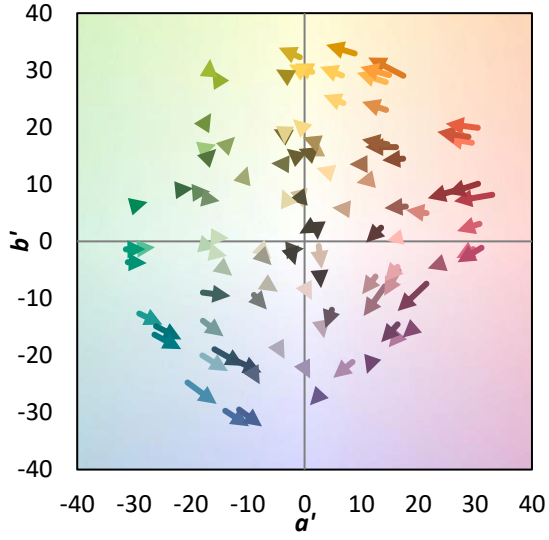


Color Vector Graphics







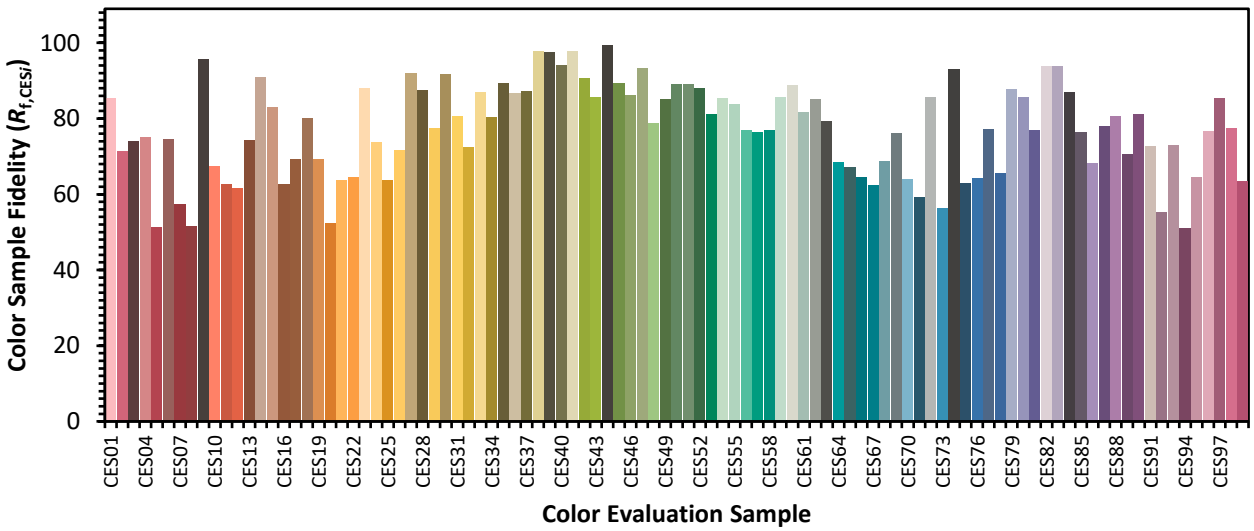


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

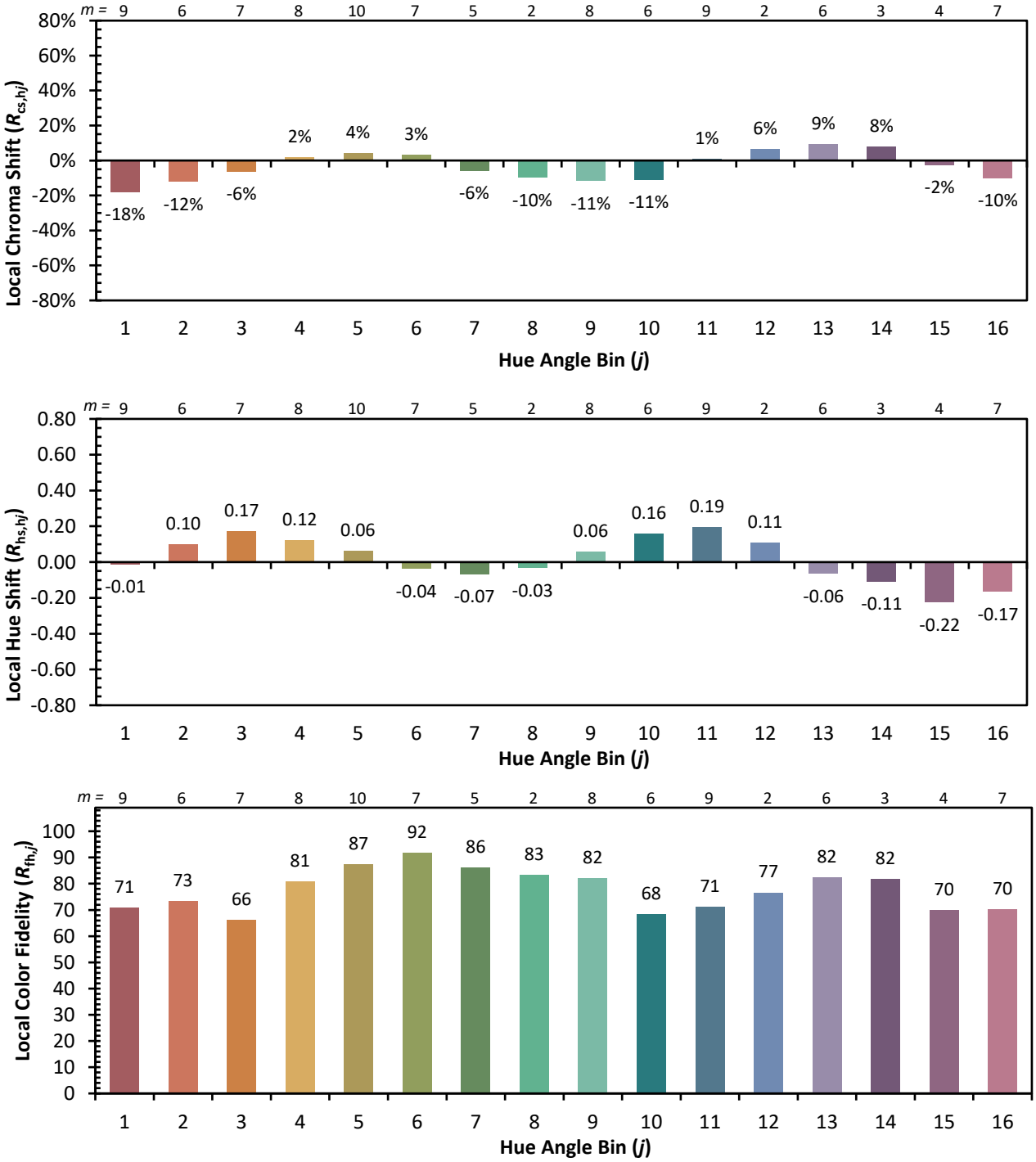
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



REPORT NUMBER: SP1-2501-332-1

TM-30-18

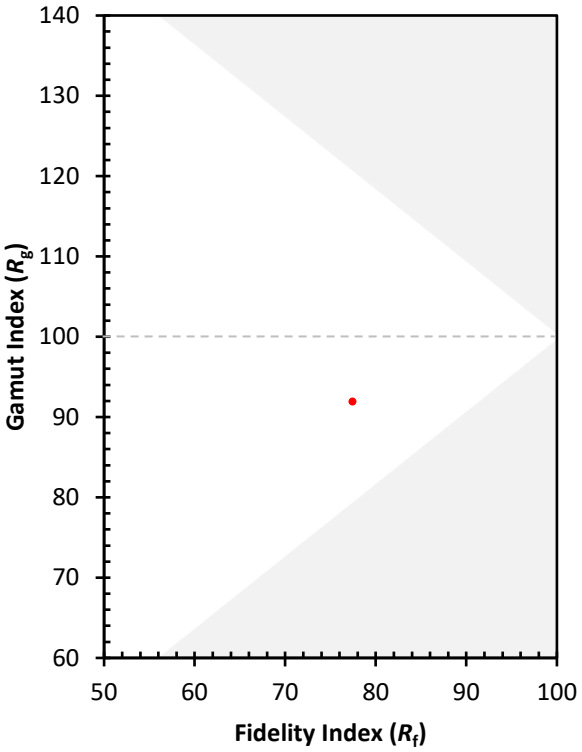
Color Rendition by Hue-Angle Bin

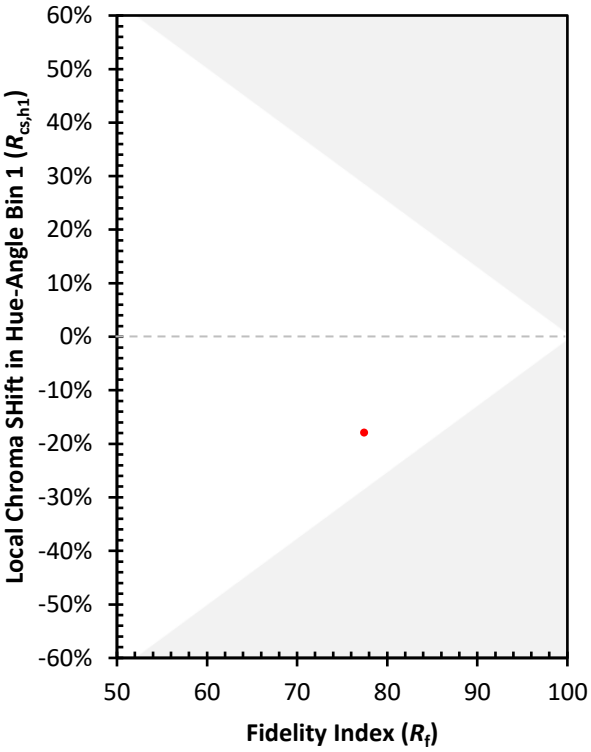


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)