

HIGH BRIGHTNESS

Ref: 32.001 6500°K
 Ref: 32.002 4000°K
 Ref: 32.003 3000°K

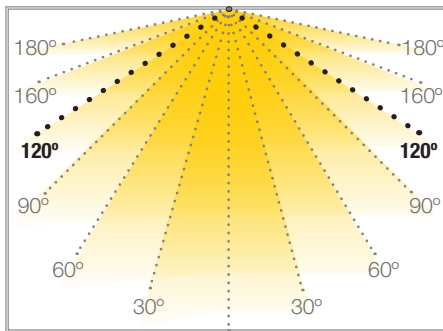
Single-coloured "PRO" flexible strip
 IP20 with 240 leds/metre 2216SMD.
 Requires use with led profile to permit dissipation.

Heat dissipation tape included.

10mm PCB

Daily recommended use: 18h
 Maximum connection in open circuit: 3m
 Maximum connection in closed circuit: 6m
 Estimated lifespan: 50000h *

* Depending on the dissipation of the profile, the daily working hours and the external environmental working temperature



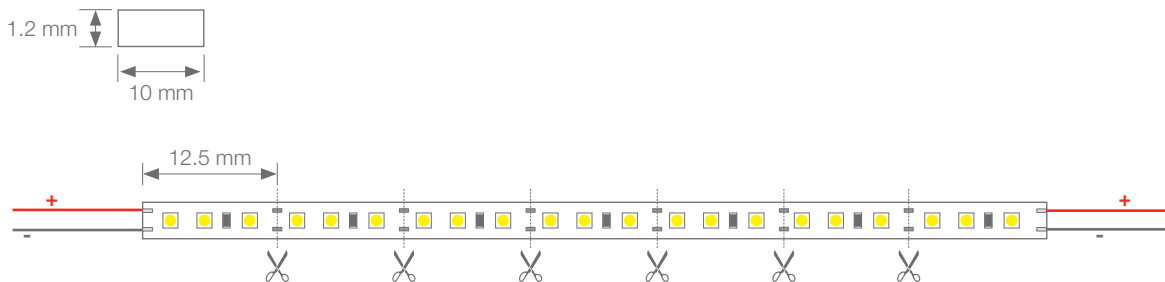
BARCELONA

FLEXIBLE STRIP

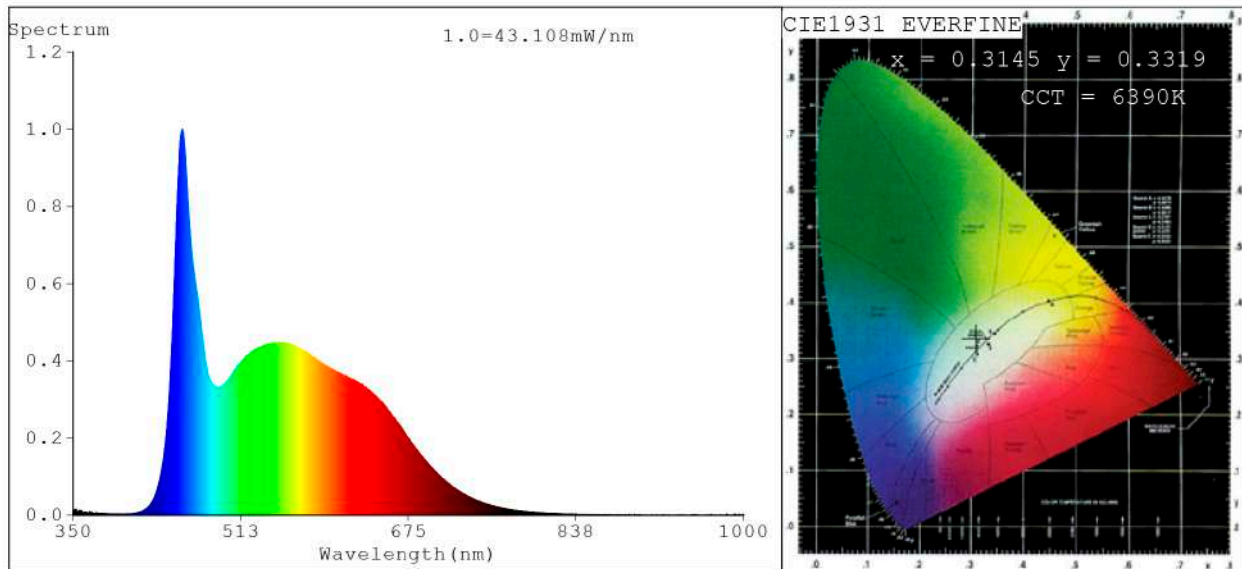


Power (W)	19.2W/m
Voltage (V)	12V
Led type	SMD2216
Lumens (6500°K)	1600 Lm/m
Lumens (4000°K)	1400 Lm/m
Lumens (3000°K)	1200 Lm/m
CRI	>85
Light emission	120°
Waterproofing	IP20
N° leds/m	240
Measurements	5000x10x1.2mm
Cutable	every 12.5mm
PCB	10mm
Working temperature	-20°C / +40°C
Apt for	indoor
Packaging	1 roll/5m
Guarantee	3 years

Aprobado por: 



Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: x=0.3145 y=0.3319/u'=0.1980 v'=0.4701
 CCT=6390K(Duv=0.0038) Dominant WL:Ld =490.7nm Purity=6.5%
 Ratio:R=14.8% G=78.2% B=7.0%; Peak WL:Lp=455.7nm FWHM=27.0nm
 Render Index:Ra=91.4 CRI=88.3 TM30:Rf=87 Rg=96
 R1 =92 R2 =98 R3 =97 R4 =86 R5 =89 R6 =93 R7 =91
 R8 =86 R9 =68 R10=93 R11=87 R12=63 R13=95 R14=99 R15=90

Photo Parameters:

Flux = 1286 lm Eff. : 77.30 lm/W Fe = 4.603 W Scotopic:3077.6 S/P:2.3933

Electrical parameters:

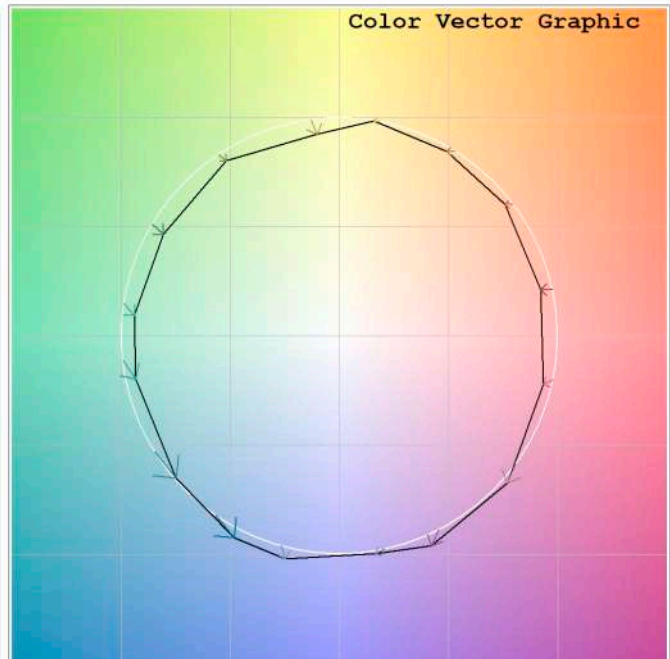
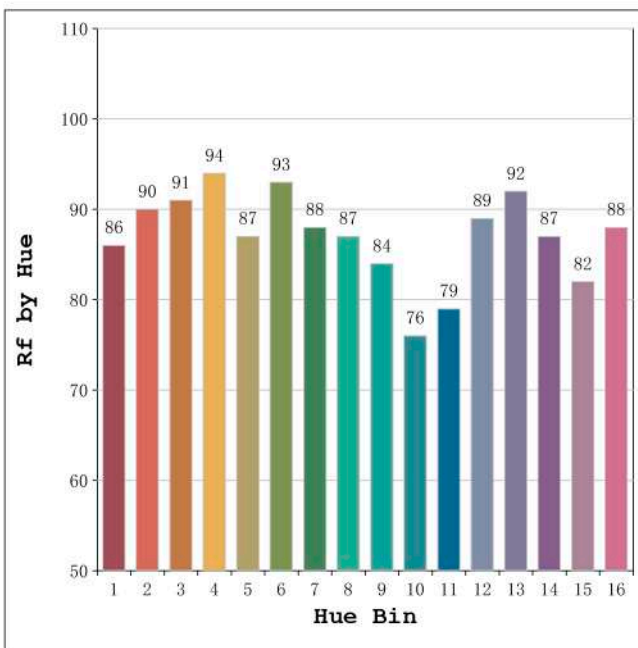
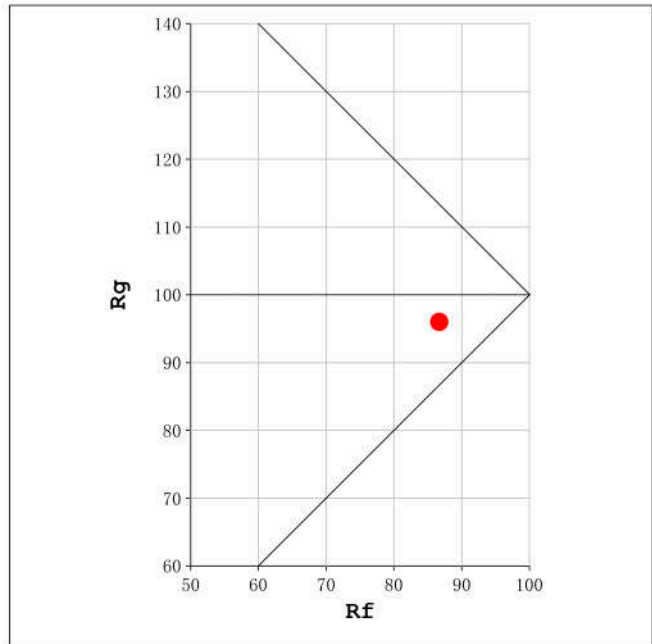
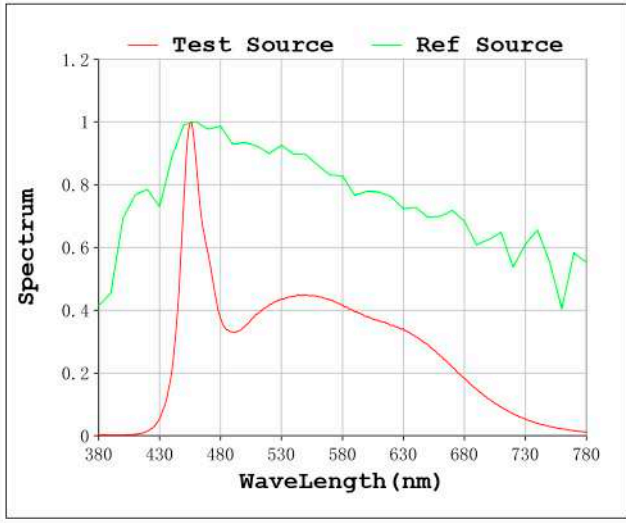
V = 11.998 V I = 1.387 A P = 18.64 W PF = 1.000

Status: Integral T = 453 ms Ip = 33446 (51%)

Model:Ecoled Barcelona 6500
 Tester:Sergio Carneros
 Temperature:21Deg
 Manufacturer:Luz Negra S.L

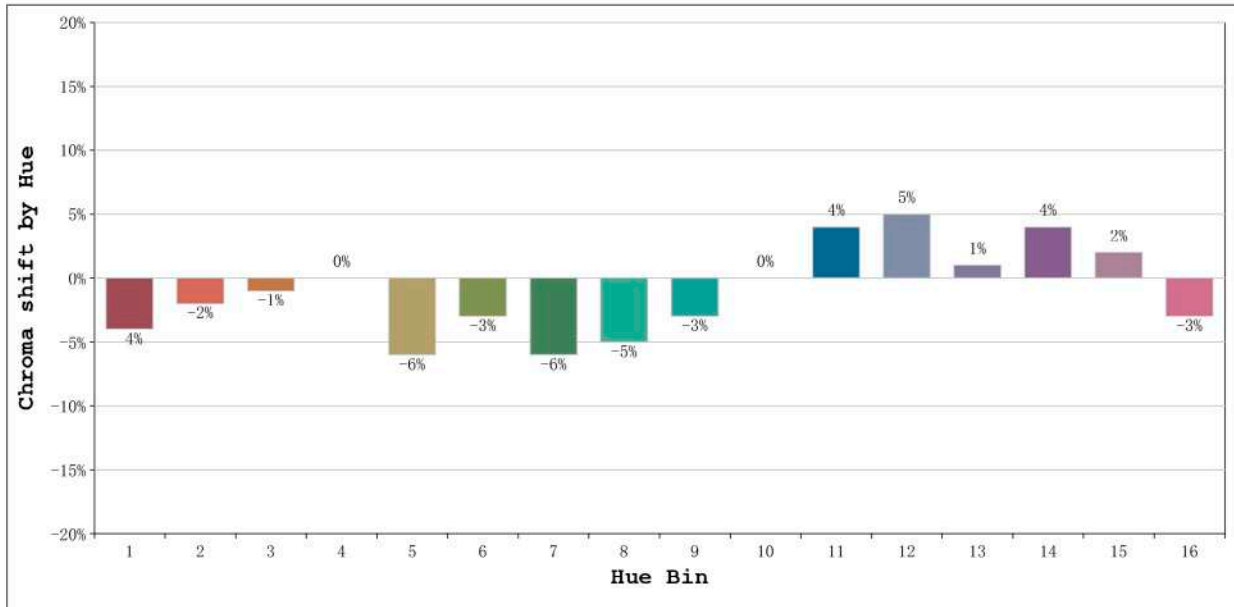
Number:32.001
 Date:25-5-2021
 Humidity:58%
 Remarks:100cm de tira flexible

Rf: 87 CCT: 6390 K u': 0.1980
Rg: 96 Duv: 0.0038 v': 0.4701



Model:Ecoled Barcelona 6500
Tester:Sergio Carneros
Temperature:21Deg
Manufacturer:Luz Negra S.L

Number:32.001
Date:25-5-2021
Humidity:58%
Remarks:100cm de tira flexible

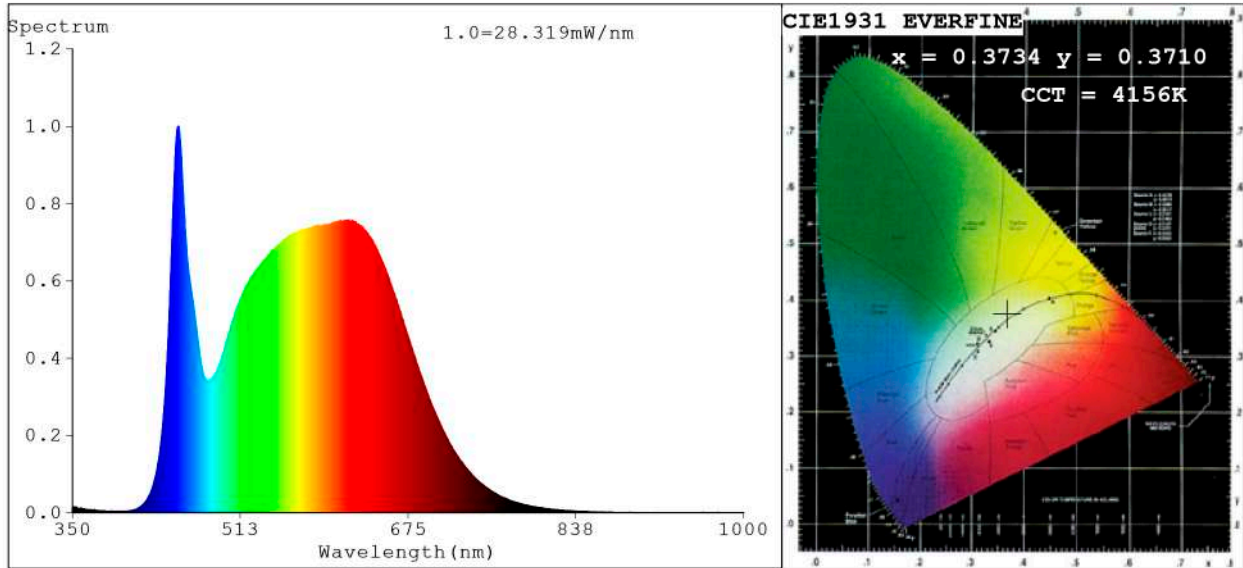


Hue Bin	Hue Angle	Rf	Graphic shift (%)	
			Chroma	Hue
1	0.0° - 22.5°	86	-4	1
2	22.5° - 45.0°	90	-2	2
3	45.0° - 67.5°	91	-1	3
4	67.5° - 90.0°	94	0	2
5	90.0° - 112.5°	87	-6	0
6	112.5° - 135.0°	93	-3	0
7	135.0° - 157.5°	88	-6	1
8	157.5° - 180.0°	87	-5	4
9	180.0° - 202.5°	84	-3	9
10	202.5° - 225.0°	76	0	15
11	225.0° - 247.5°	79	4	13
12	247.5° - 270.0°	89	5	3
13	270.0° - 292.5°	92	1	-3
14	292.5° - 315.0°	87	4	-6
15	315.0° - 337.5°	82	2	-8
16	337.5° - 360.0°	88	-3	-2

Model:Ecoled Barcelona 6500
Tester:Sergio Carneros
Temperature:21Deg
Manufacturer:Luz Negra S.L

Number:32.001
Date:25-5-2021
Humidity:58%
Remarks:100cm de tira flexible

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3734$ $y=0.3710$ / $u'=0.2227$ $v'=0.4980$
 CCT=4156K (Duv=-0.0006) Dominant WL:Ld =578.8nm Purity=23.4%
 Ratio:R=19.1% G=76.5% B=4.4%; Peak WL:Lp=452.6nm FWHM=25.7nm
 Render Index:Ra=92.6 CRI=89.2 TM30:Rf=90 Rg=99
 R1 =93 R2 =96 R3 =96 R4 =92 R5 =91 R6 =91 R7 =95
 R8 =88 R9 =70 R10=88 R11=91 R12=68 R13=94 R14=97 R15=92

Photo Parameters:

Flux = 1385 lm Eff. : 79.79 lm/W Fe = 4.839 W Scotopic:2533.9 S/P:1.83

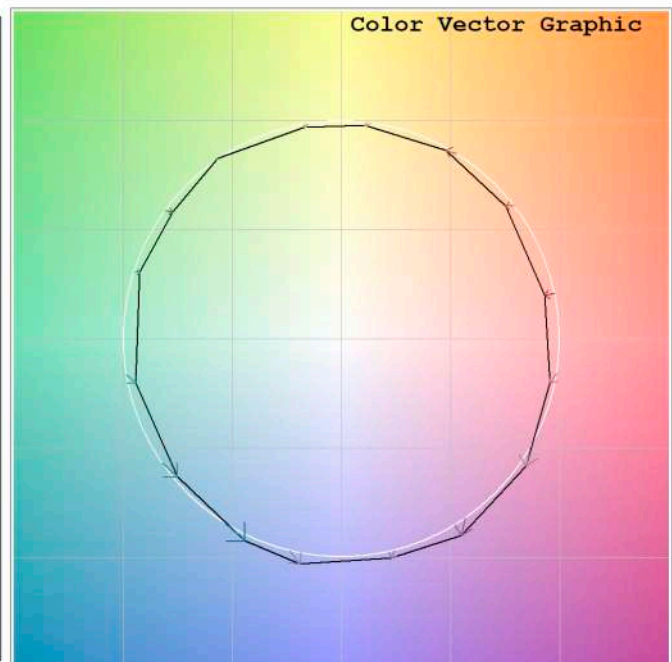
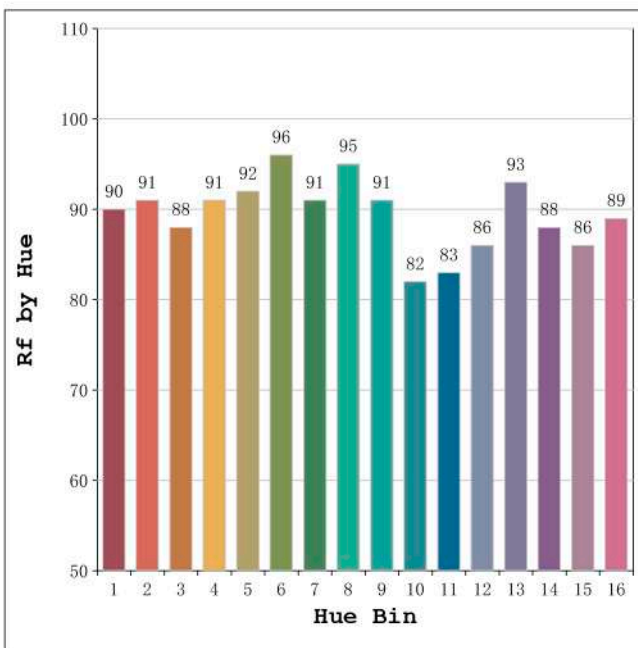
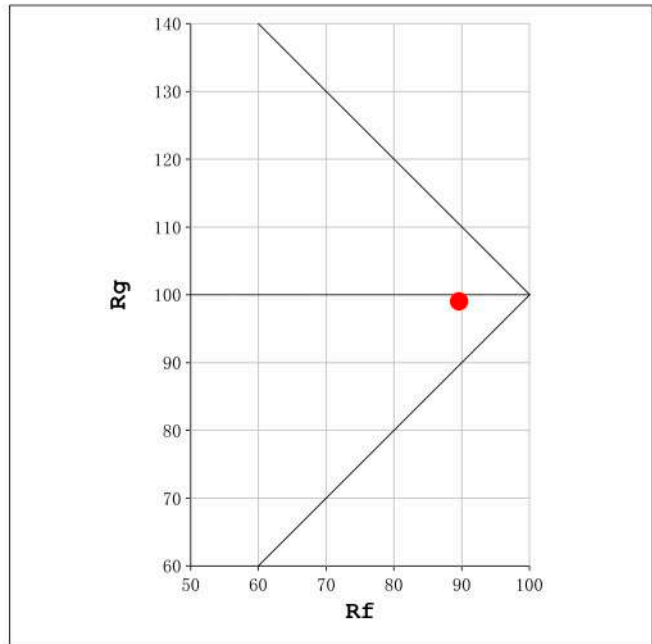
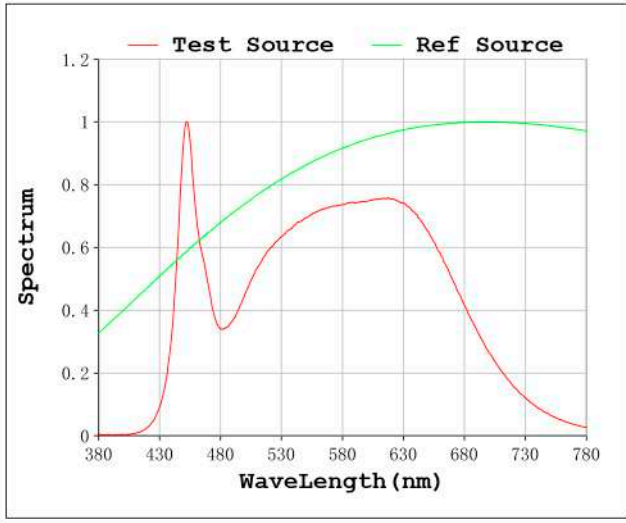
Electrical parameters:

V = 11.998 V I = 1.446 A P = 17.35 W PF = 1.000

Status: Integral T = 1000 ms Ip = 46507 (71%)

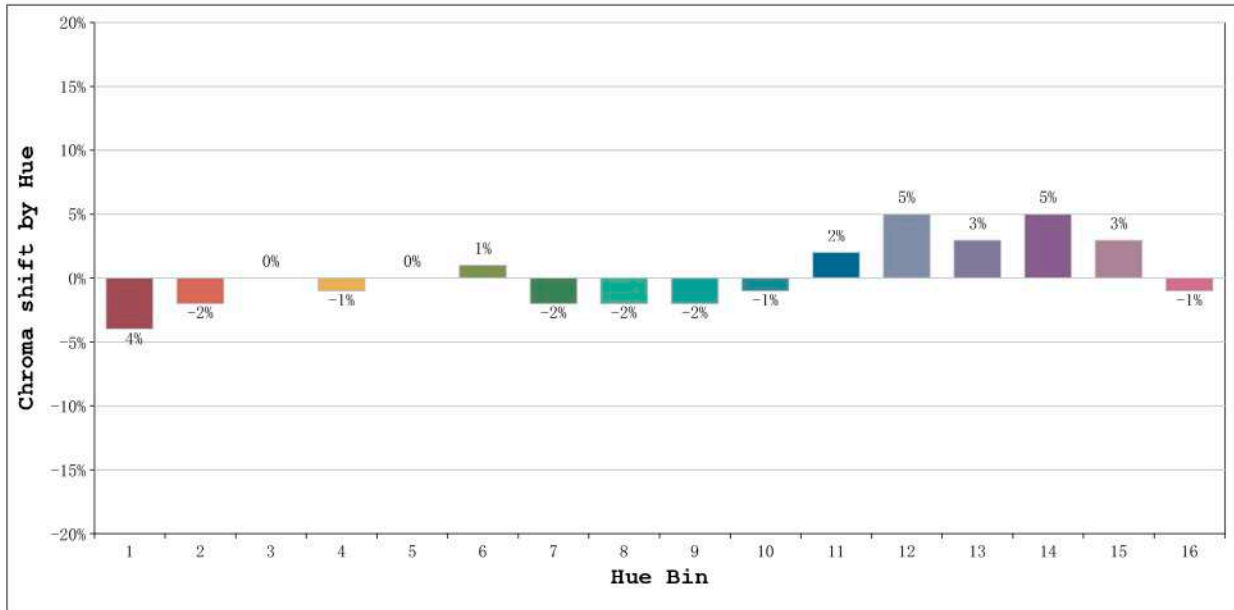
Model:Ecoled Barcelona 4000K	Number: 32.002
Tester:Sergio Carneros	Date:25-5-2021
Temperature:21Deg	Humidity:57%
Manufacturer:Luz Negra S.L	Remarks:100cm de tria flexible

Rf: 90 CCT: 4156 K u': 0.2227
Rg: 99 Duv: -0.0006 v': 0.4980



Model:Ecoled Barcelona 4000K
Tester:Sergio Carneros
Temperature:21Deg
Manufacturer:Luz Negra S.L

Number: 32.002
Date:25-5-2021
Humidity:57%
Remarks:100cm de tria flexible

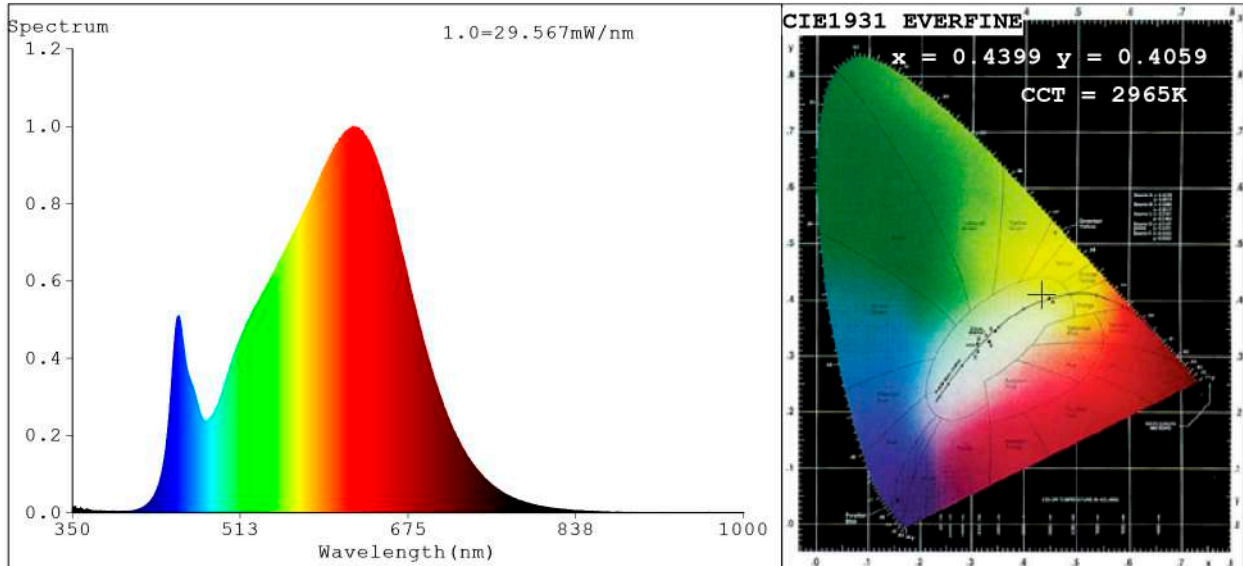


Hue Bin	Hue Angle	Rf	Graphic shift (%)	
			Chroma	Hue
1	0.0° - 22.5°	90	-4	0
2	22.5° - 45.0°	91	-2	2
3	45.0° - 67.5°	88	0	5
4	67.5° - 90.0°	91	-1	2
5	90.0° - 112.5°	92	0	2
6	112.5° - 135.0°	96	1	0
7	135.0° - 157.5°	91	-2	0
8	157.5° - 180.0°	95	-2	0
9	180.0° - 202.5°	91	-2	5
10	202.5° - 225.0°	82	-1	9
11	225.0° - 247.5°	83	2	12
12	247.5° - 270.0°	86	5	5
13	270.0° - 292.5°	93	3	-1
14	292.5° - 315.0°	88	5	-5
15	315.0° - 337.5°	86	3	-7
16	337.5° - 360.0°	89	-1	-4

Model:Ecoled Barcelona 4000K
Tester:Sergio Carneros
Temperature:21Deg
Manufacturer:Luz Negra S.L

Number: 32.002
Date:25-5-2021
Humidity:57%
Remarks:100cm de tria flexible

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4399$ $y=0.4059$ / $u'=0.2517$ $v'=0.5225$
 CCT=2965K (Duv=0.0003) Dominant WL:Ld =582.9nm Purity=53.9%
 Ratio:R=24.3% G=72.9% B=2.8%; Peak WL:Lp=621.4nm FWHM=164.4nm
 Render Index:Ra=92.1 CRI=89.0 TM30:Rf=90 Rg=99
 R1 =92 R2 =96 R3 =98 R4 =91 R5 =91 R6 =94 R7 =92
 R8 =82 R9 =60 R10=89 R11=91 R12=78 R13=93 R14=98 R15=88

Photo Parameters:

Flux = 1486 lm Eff. : 85.70 lm/W Fe = 5.231 W Scotopic:2068.1 S/P:1.3916

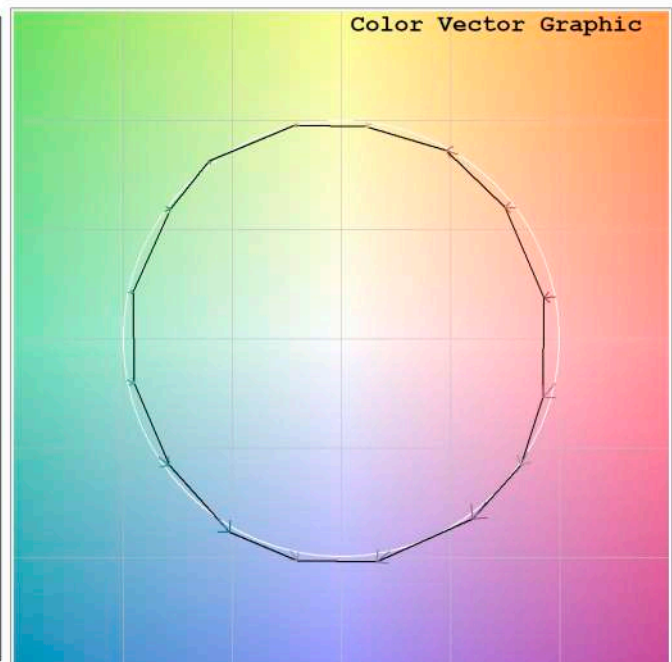
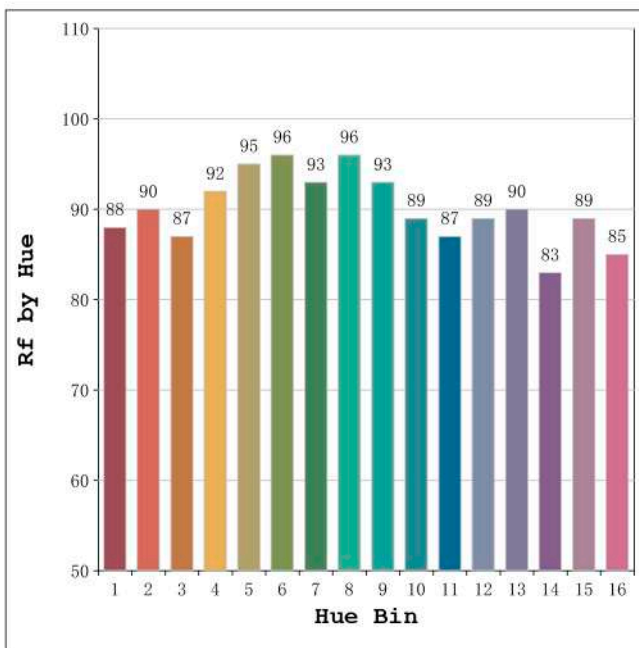
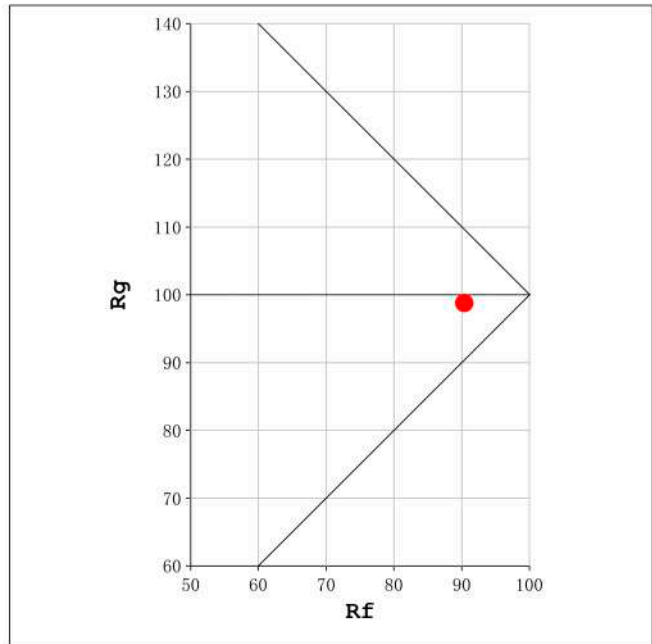
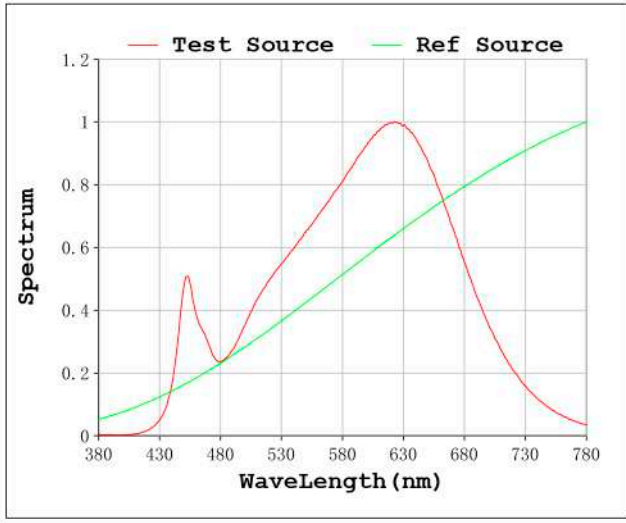
Electrical parameters:

V = 11.998 V I = 1.445 A P = 17.34 W PF = 1.000

Status: Integral T = 789 ms Ip = 39510 (60%)

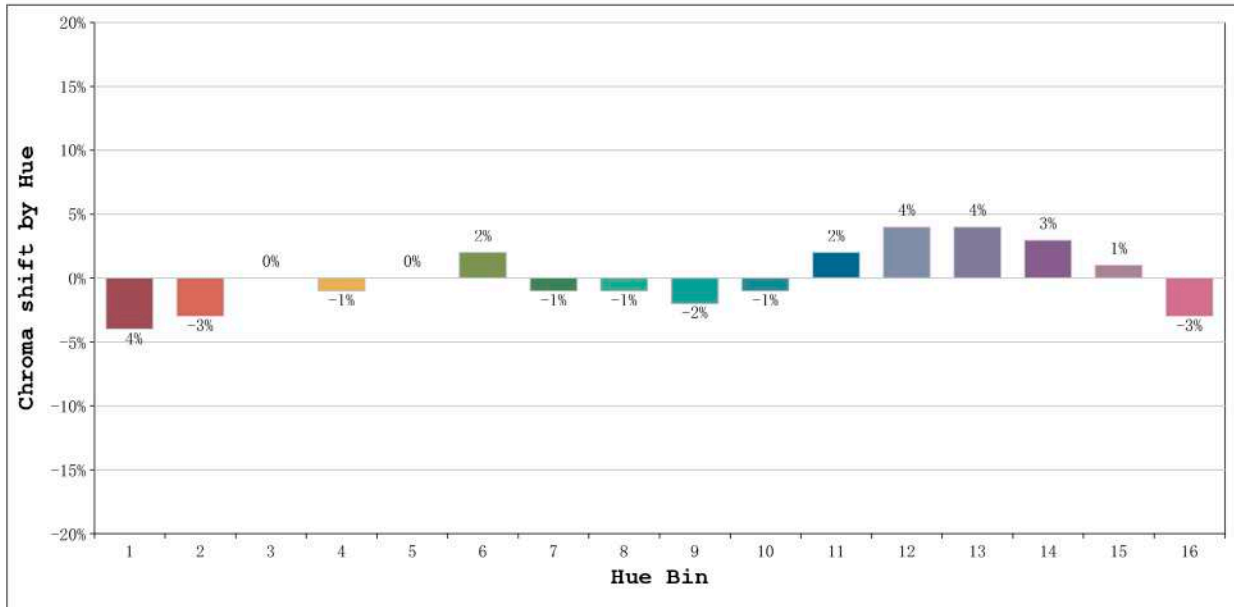
Model:Ecoled Barcelona 3000K	Number: 32.003
Tester:Sergio Carneros	Date:25-5-2021
Temperature:17Deg	Humidity:70.0%
Manufacturer:Luz Negra S.L	Remarks:100cm de tira flexible

Rf: 90 CCT: 2965 K u': 0.2517
Rg: 99 Duv: 0.0003 v': 0.5225



Model:Ecoled Barcelona 3000K
Tester:Sergio Carneros
Temperature:17Deg
Manufacturer:Luz Negra S.L

Number: 32.003
Date:25-5-2021
Humidity:70.0%
Remarks:100cm de tira flexible



Hue Bin	Hue Angle	Rf	Graphic shift (%)	
			Chroma	Hue
1	0.0° - 22.5°	88	-4	0
2	22.5° - 45.0°	90	-3	3
3	45.0° - 67.5°	87	0	5
4	67.5° - 90.0°	92	-1	2
5	90.0° - 112.5°	95	0	2
6	112.5° - 135.0°	96	2	0
7	135.0° - 157.5°	93	-1	-2
8	157.5° - 180.0°	96	-1	0
9	180.0° - 202.5°	93	-2	2
10	202.5° - 225.0°	89	-1	6
11	225.0° - 247.5°	87	2	8
12	247.5° - 270.0°	89	4	4
13	270.0° - 292.5°	90	4	-6
14	292.5° - 315.0°	83	3	-8
15	315.0° - 337.5°	89	1	-6
16	337.5° - 360.0°	85	-3	-7

Model:Ecoled Barcelona 3000K
Tester:Sergio Carneros
Temperature:17Deg
Manufacturer:Luz Negra S.L

Number: 32.003
Date:25-5-2021
Humidity:70.0%
Remarks:100cm de tira flexible