

## FLEXIBLE LED STRIP COB 5MM

## COB IP20

## FLEXIBLE LED STRIP

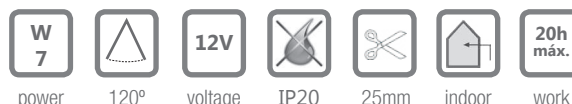
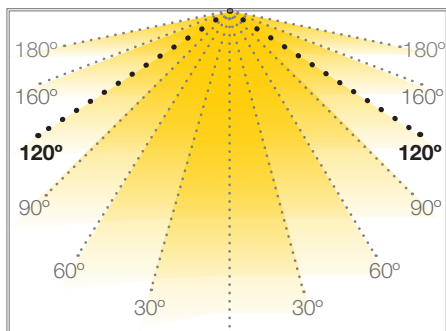
Ref.: 31.152  
Ref.: 31.153

4000°K  
2400°K

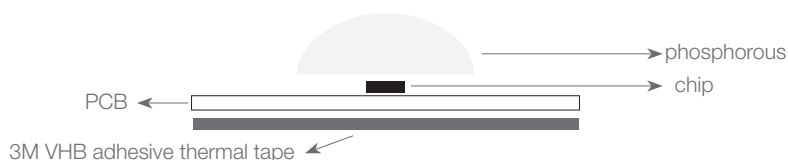
Single-colour flexible strip with COB technology that allow us to light up luminaires achieving a non-dotting effect. To prevent the usual problems of the COB technology, our COB led strips have a small iron strip incorporated at the back of the PCB which improves heat dissipation.

Daily recommended use: 20h  
Maximum connection in open circuit: 3m  
Maximum connection in closed circuit: 5m  
Estimated lifespan: 50000h \*

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

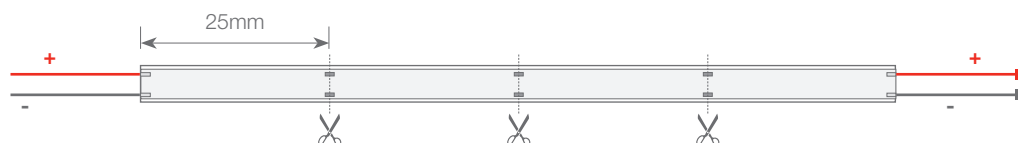
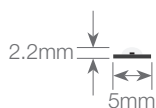


|                     |               |
|---------------------|---------------|
| Power (W)           | 7W/m          |
| Voltage (V)         | 12V           |
| Led type            | COB           |
| Lumens 4000°K       | 489 Lm/m      |
| Lumens 2400°K       | 358 Lm/m      |
| IRC                 | >90           |
| Light emission      | 120°          |
| Waterproofing       | IP20          |
| N° leds/m           | 384           |
| Measurements        | 5000x5x2,2mm  |
| Cuttable            | cada 25mm     |
| PCB                 | 5mm           |
| Working temperature | -25°C / +45°C |
| Apt for             | indoor        |
| Packaging           | 1 roll/5m     |
| Guarantee           | 2 years       |



Approved by: 

Please note: due to its reduced width, the welding is behind the PCB

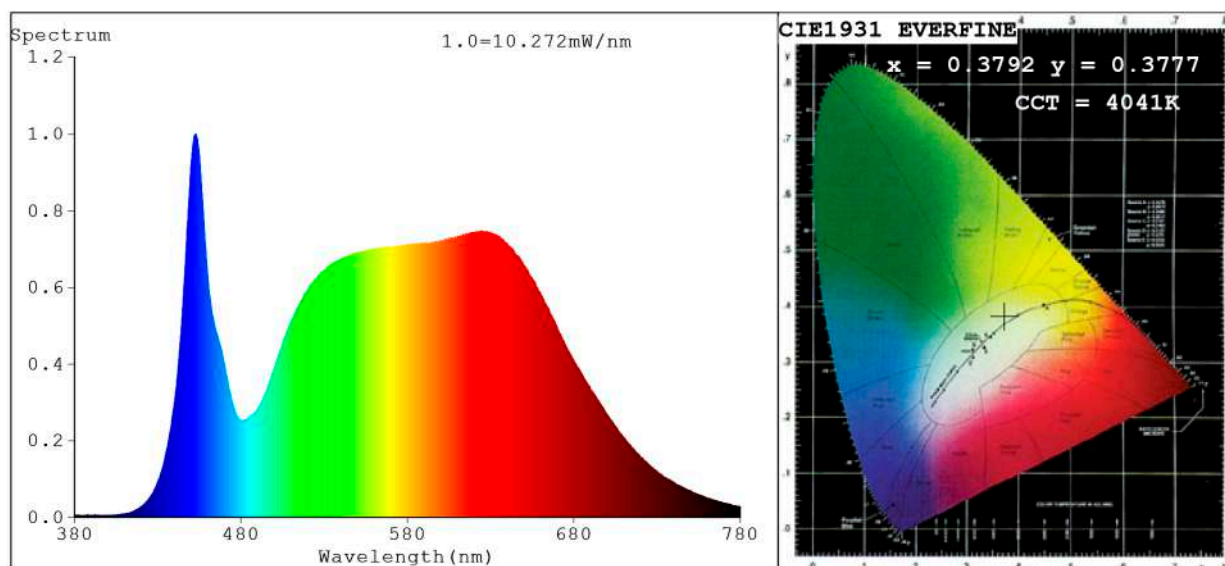


**BARCELONA**  
C/ Carles Buigues, 13  
08420 Canovelles  
Info@luznegra.net  
Tel: +34 938 402 598

**MADRID**  
C/ Minas, 35-37  
28923 Alcorcón  
centro@luznegra.net  
Tel: +34 916 416 081

**PARIS**  
113 Avenue Joffre  
77450 Esbly  
france@luznegra.net  
Tel: +33 (0) 160 426 585

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.3792$   $y=0.3777$  /  $u'=0.2239$   $v'=0.5018$   
 CCT=4041K (Duv=0.0008) Dominant WL:Ld =578.5nm Purity=27.2%  
 Ratio:R=19.3% G=77.0% B=3.7%; Peak WL:Lp=452.6nm FWHM=19.9nm  
 Render Index:Ra=91.4 CRI=87.4 TM30:Rf=89 Rg=100  
 R1 =92 R2 =93 R3 =91 R4 =92 R5 =90 R6 =88 R7 =96  
 R8 =89 R9 =70 R10=81 R11=90 R12=63 R13=92 R14=95 R15=91

### Photo Parameters:

Flux = 488.9 lm Eff. : 75.52 lm/W Fe = 1.682 W Scotopic:855.78 S/P:1.7504

### Electrical parameters:

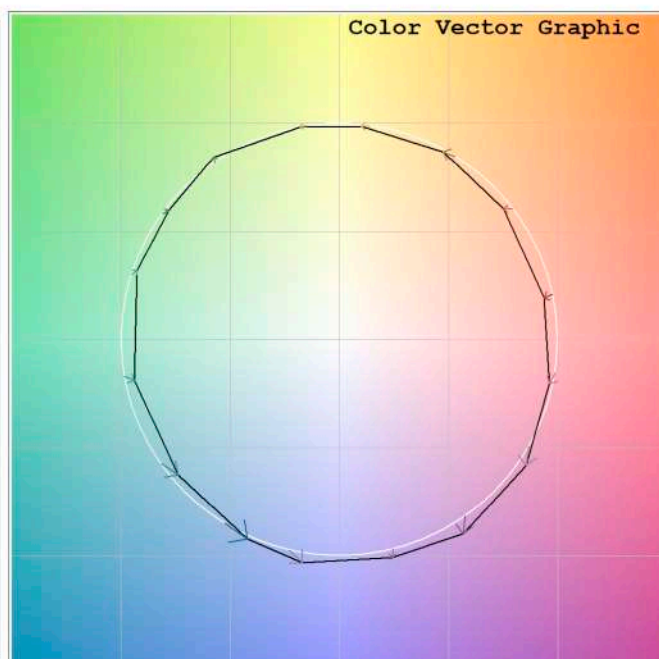
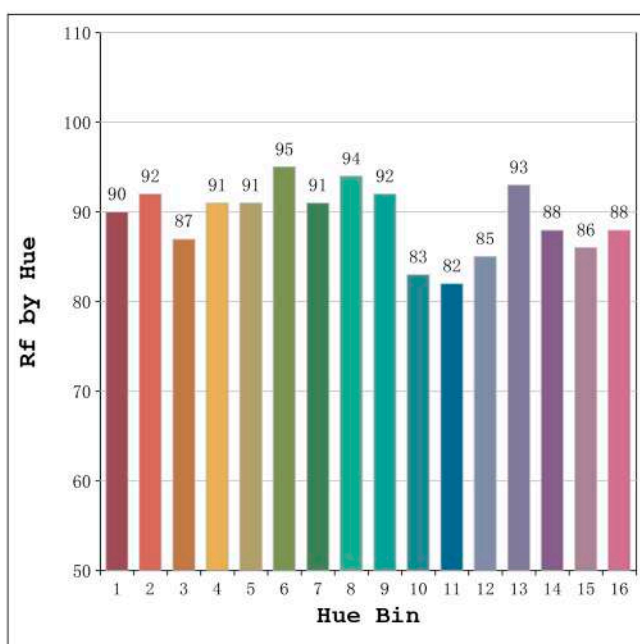
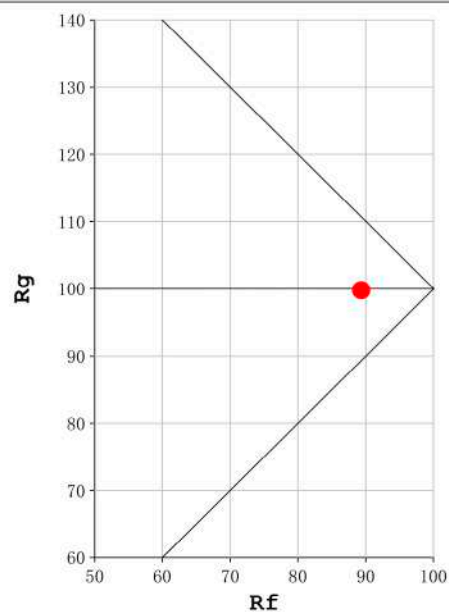
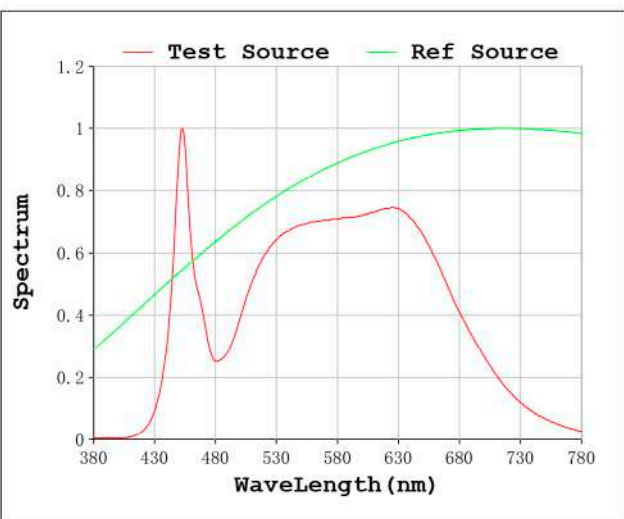
V = 11.998 V I = 0.5396 A P = 6.474 W PF = 1.000

Status: Integral T = 2000 ms Ip = 33078 (50%)

Model:Ecoled COB slim 4000K  
 Tester:Sergio Carneros  
 Temperature:20Deg  
 Manufacturer:Luz Negra

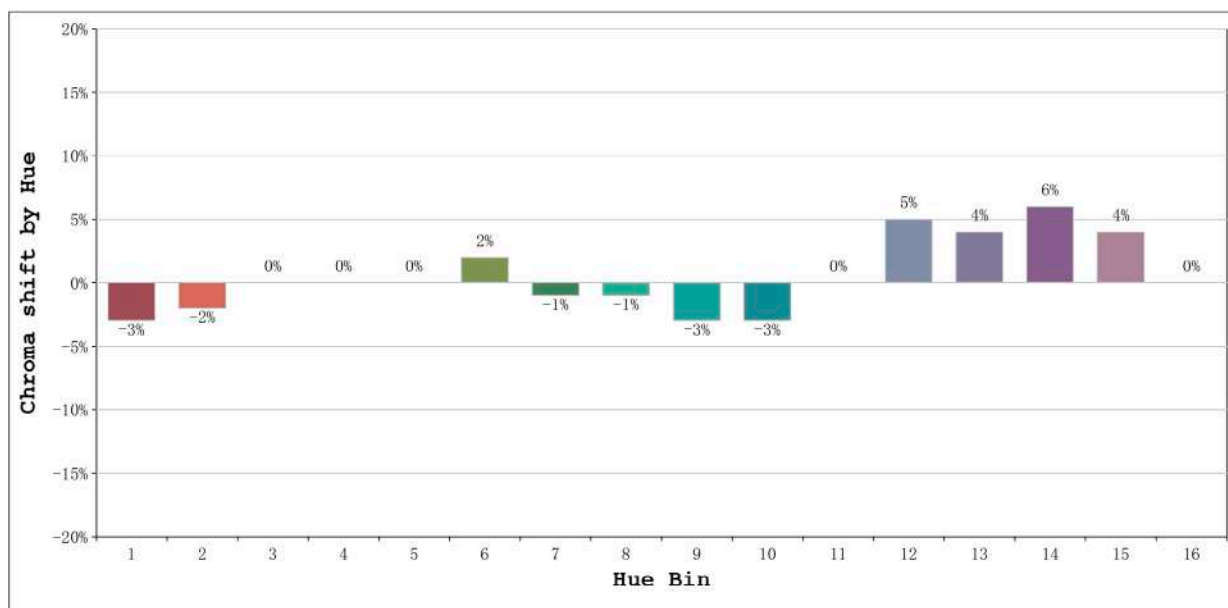
Number: 31.152  
 Date:2022-04-13 12:21:13  
 Humidity:50%  
 Remarks:100cm de tira flexible

Rf: 89 CCT: 4041 K u': 0.2239  
Rg: 100 Duv: 0.0008 v': 0.5018



Model:Ecoled COB slim 4000K  
Tester:Sergio Carneros  
Temperature:20Deg  
Manufacturer:Luz Negra

Number: 31.152  
Date:2022-04-13 12:21:13  
Humidity:50%  
Remarks:100cm de tira flexible

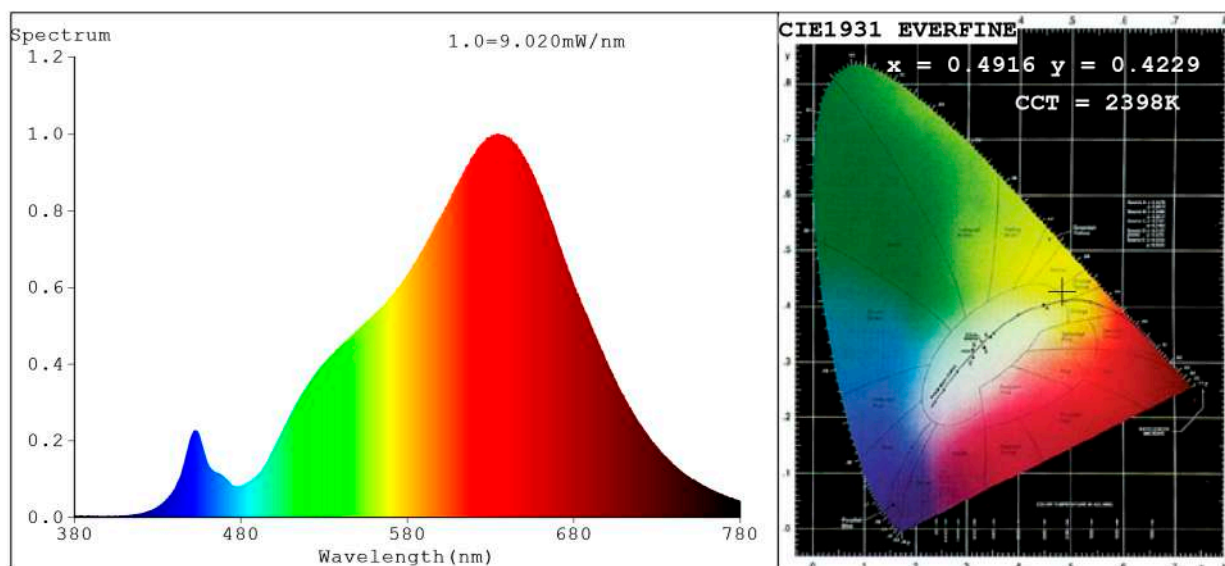


| Hue Bin | Hue Angle       | Rf | Graphic shift(%) |     |
|---------|-----------------|----|------------------|-----|
|         |                 |    | Chroma           | Hue |
| 1       | 0.0° - 22.5°    | 90 | -3               | 0   |
| 2       | 22.5° - 45.0°   | 92 | -2               | 2   |
| 3       | 45.0° - 67.5°   | 87 | 0                | 5   |
| 4       | 67.5° - 90.0°   | 91 | 0                | 4   |
| 5       | 90.0° - 112.5°  | 91 | 0                | 3   |
| 6       | 112.5° - 135.0° | 95 | 2                | 0   |
| 7       | 135.0° - 157.5° | 91 | -1               | -2  |
| 8       | 157.5° - 180.0° | 94 | -1               | -1  |
| 9       | 180.0° - 202.5° | 92 | -3               | 3   |
| 10      | 202.5° - 225.0° | 83 | -3               | 9   |
| 11      | 225.0° - 247.5° | 82 | 0                | 13  |
| 12      | 247.5° - 270.0° | 85 | 5                | 7   |
| 13      | 270.0° - 292.5° | 93 | 4                | 0   |
| 14      | 292.5° - 315.0° | 88 | 6                | -4  |
| 15      | 315.0° - 337.5° | 86 | 4                | -7  |
| 16      | 337.5° - 360.0° | 88 | 0                | -4  |

Model:Ecoled COB slim 4000K  
 Tester:Sergio Carneros  
 Temperature:20Deg  
 Manufacturer:Luz Negra

Number: 31.152  
 Date:2022-04-13 12:21:13  
 Humidity:50%  
 Remarks:100cm de tira flexible

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.4916$   $y=0.4229$   $u'=0.2773$   $v'=0.5367$   
 CCT=2398K (Duv=0.0026) Dominant WL:Ld =585.1nm Purity=74.5%  
 Ratio:R=29.1% G=69.5% B=1.4%; Peak WL:Lp=634.9nm FWHM=136.9nm  
 Render Index:Ra=92.8 CRI=89.7 TM30:Rf=92 Rg=99  
 R1 =93 R2 =94 R3 =92 R4 =95 R5 =92 R6 =93 R7 =96  
 R8 =87 R9 =68 R10=84 R11=95 R12=77 R13=93 R14=94 R15=90

### Photo Parameters:

Flux = 358.1 lm Eff. : 53.99 lm/W Fe = 1.356 W Scotopic:384.32 S/P:1.0732

### Electrical parameters:

V = 11.998 V I = 0.5528 A P = 6.632 W PF = 1.000

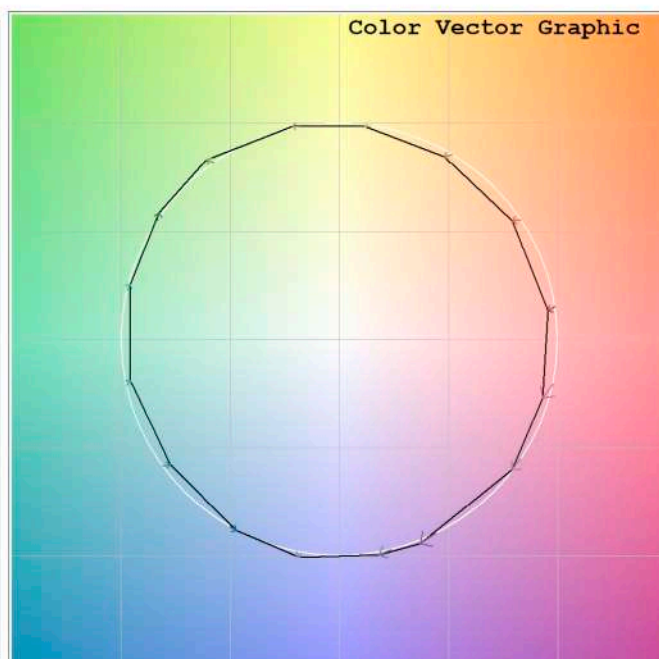
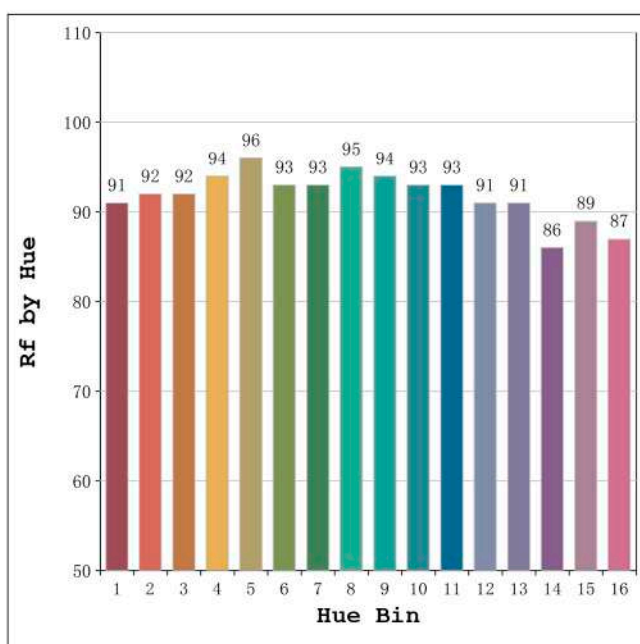
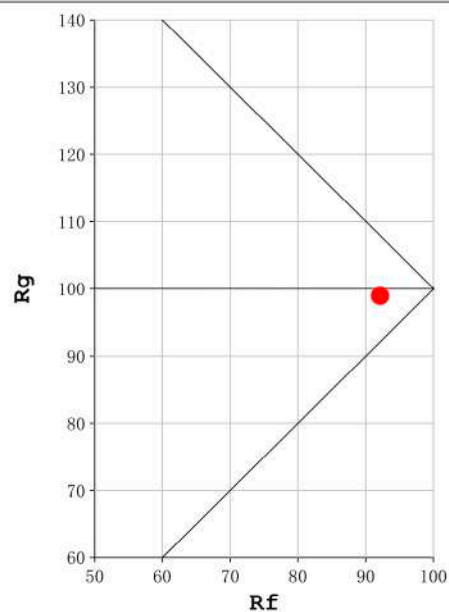
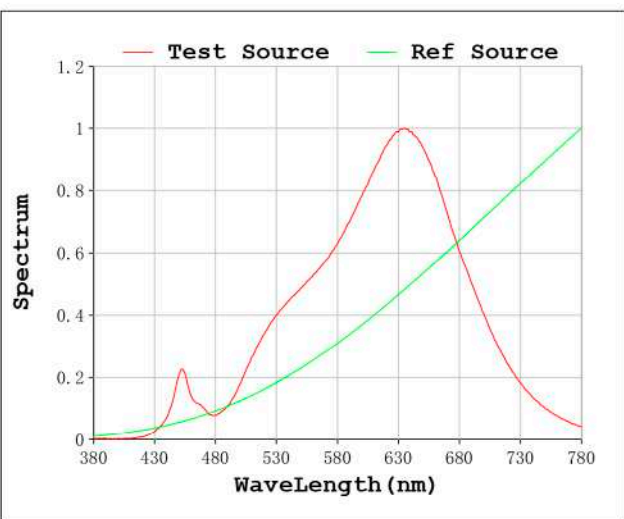
Status: Integral T = 2000 ms Ip = 32236 (49%)

Model:Ecoled Cob slim 2400K  
 Tester:Sergio Carneros  
 Temperature:20Deg  
 Manufacturer:Luz Negra

Number: 31.153  
 Date:2022-04-25 10:02:53  
 Humidity:50%  
 Remarks:100cm de tira flexible

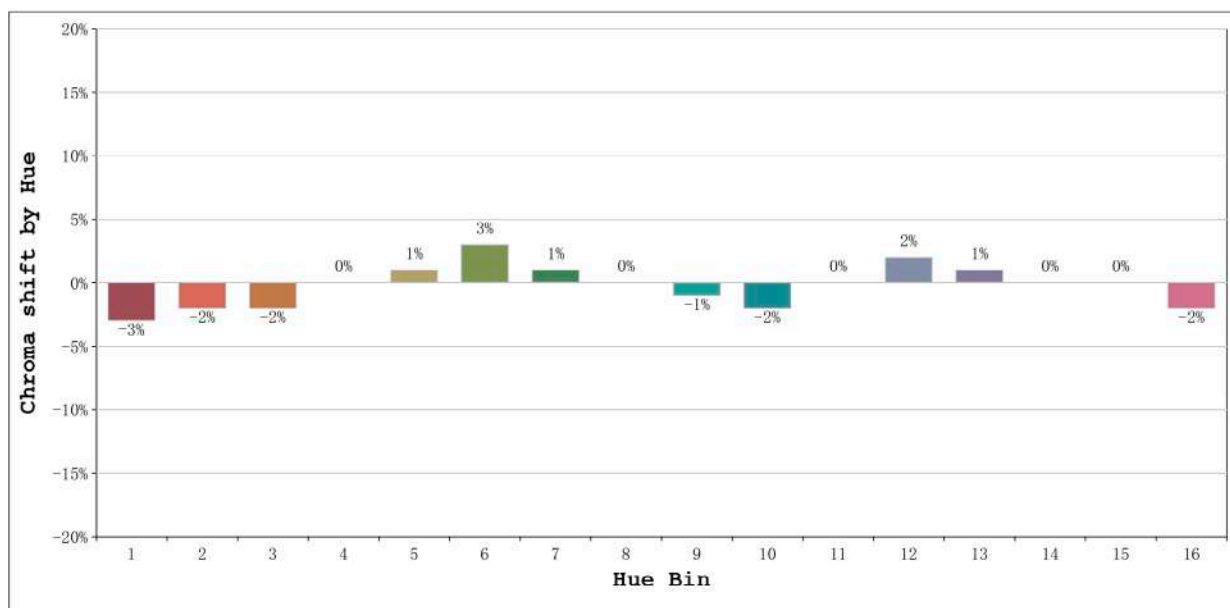


Rf: 92 CCT: 2398 K u': 0.2773  
Rg: 99 Duv: 0.0026 v': 0.5367



Model:Ecoled Cob slim 2400K  
Tester:Sergio Carneros  
Temperature:20Deg  
Manufacturer:Luz Negra

Number: 31.153  
Date:2022-04-25 10:02:53  
Humidity:50%  
Remarks:100cm de tira flexible



| Hue Bin | Hue Angle       | Rf | Graphic shift(%) |     |
|---------|-----------------|----|------------------|-----|
|         |                 |    | Chroma           | Hue |
| 1       | 0.0° - 22.5°    | 91 | -3               | 0   |
| 2       | 22.5° - 45.0°   | 92 | -2               | 2   |
| 3       | 45.0° - 67.5°   | 92 | -2               | 3   |
| 4       | 67.5° - 90.0°   | 94 | 0                | 2   |
| 5       | 90.0° - 112.5°  | 96 | 1                | 3   |
| 6       | 112.5° - 135.0° | 93 | 3                | 2   |
| 7       | 135.0° - 157.5° | 93 | 1                | -3  |
| 8       | 157.5° - 180.0° | 95 | 0                | -2  |
| 9       | 180.0° - 202.5° | 94 | -1               | -1  |
| 10      | 202.5° - 225.0° | 93 | -2               | 1   |
| 11      | 225.0° - 247.5° | 93 | 0                | 4   |
| 12      | 247.5° - 270.0° | 91 | 2                | 2   |
| 13      | 270.0° - 292.5° | 91 | 1                | -5  |
| 14      | 292.5° - 315.0° | 86 | 0                | -8  |
| 15      | 315.0° - 337.5° | 89 | 0                | -5  |
| 16      | 337.5° - 360.0° | 87 | -2               | -6  |

Model:Ecoled Cob slim 2400K  
 Tester:Sergio Carneros  
 Temperature:20Deg  
 Manufacturer:Luz Negra

Number: 31.153  
 Date:2022-04-25 10:02:53  
 Humidity:50%  
 Remarks:100cm de tira flexible