

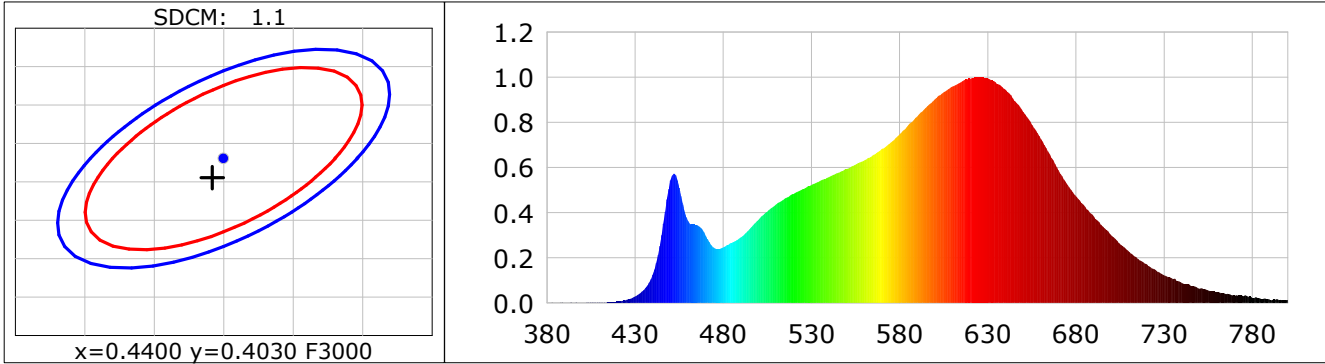
## Lightsource Test Report

**Product Infomation**

|                               |                         |
|-------------------------------|-------------------------|
| Product Category: LED STRIP   | Product Type: LED STRIP |
| Product Spec: EMMA 3          | Product Number: 465     |
| Manufacturer: TECSOLELED S.L. | Buyer: TECSOLELED S.L.  |

**CIE Colorimetric Parameters**

Chromaticity coordinates:  $x=0.4392$   $y=0.4005$   $u(u')=0.2536$   $v=0.3469$   $v'=0.5203$   
 CCT:  $T_c=2933K$  ( $duv=-0.00172$ )      Color Ratio:  $R=0.252$   $G=0.718$   $B=0.031$   
 Peak Wavelength: 625.8nm      Half Bandwidth: 153.4nm  
 Dominant Wavelength: 583.7nm      Color Purity: 0.521  
 CRI:  $R_a=94.8$ ,  $avgR(1\sim14)=92.9$ ,  $avgR(1\sim15)=92.9$       TM30:  $R_f=92$ ,  $R_g=99$   
 GAI:  $GAI\_BB\_8=103.6$ ,  $GAI\_BB\_15=109.5$ ,  $GAI\_EES=57.6$   
 R1 =96    R2 =99    R3 =98    R4 =96    R5 =97    R6 =96    R7 =91    R8 =85  
 R9 =67    R10=97    R11=97    R12=84    R13=98    R14=99    R15=92  
 Color Quality Scale:  $Q_a=92.6$ ,  $Q_f=93.7$ ,  $Q_p=95.6$ ,  $Q_g=97.4$   
 Q1 =90    Q2 =95    Q3 =91    Q4 =90    Q5 =93    Q6 =95    Q7 =94    Q8 =94  
 Q9 =97    Q10=96    Q11=95    Q12=94    Q13=93    Q14=90    Q15=90



**Photometric Parameters**

|                                  |   |                        |
|----------------------------------|---|------------------------|
| Luminous Flux: 713.06 lm         | Efficiency: 86.15 lm/W                    | Radiant Power: 2.482 W |
| Total mains efficacy: 79.77 lm/W | Energy Efficiency Class: G (EU 2019/2015) |                        |

**Electric Parameters**

|                      |                   |              |
|----------------------|-------------------|--------------|
| Voltage: 24.000V     | Current: 0.3449A  | Power: 8.28W |
| Power Factor: 1.0000 | Frequency: 0.00Hz |              |

**Test Infomation**

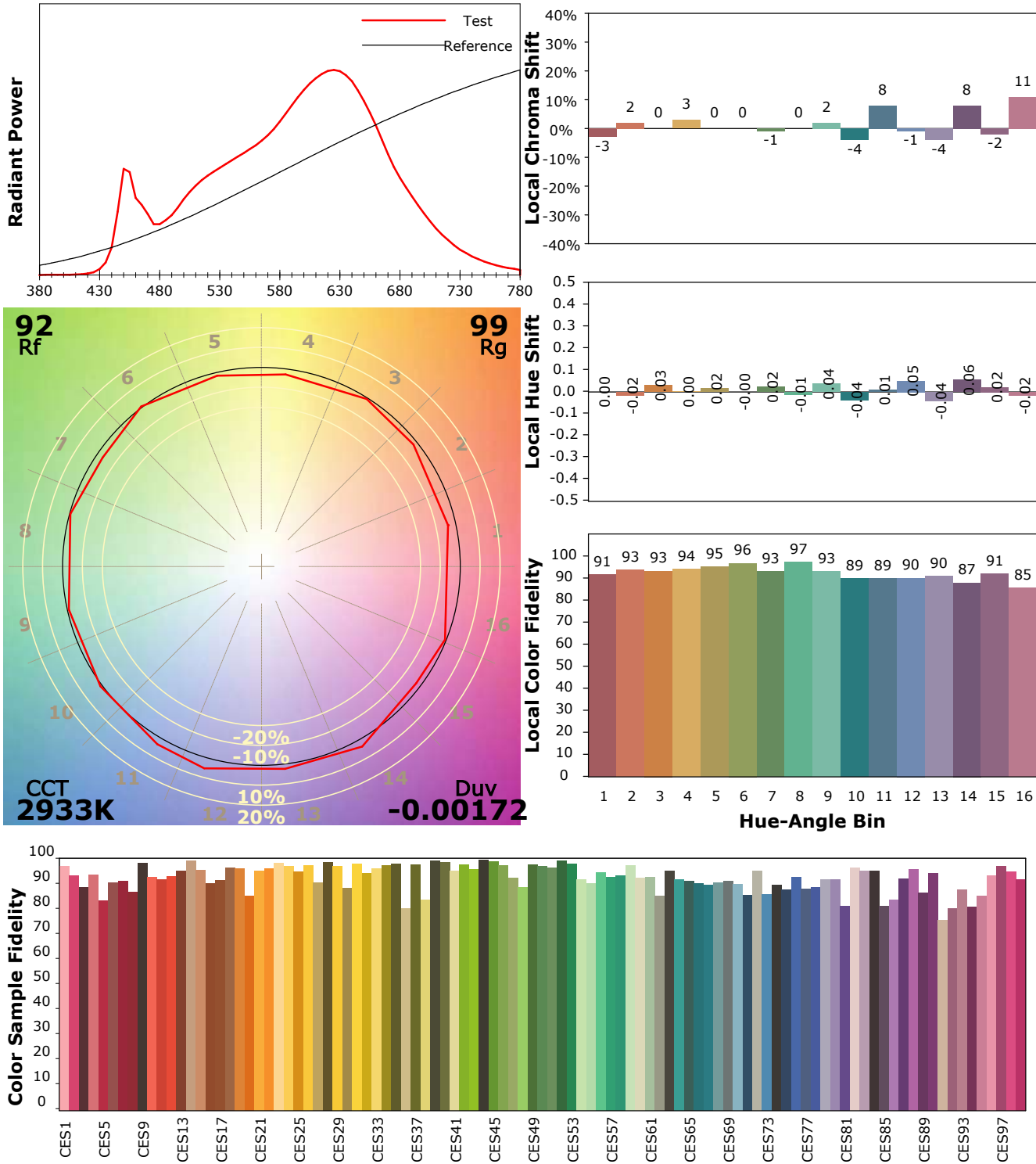
|  |  |
|--|--|
| Scan Range: 380~800:1nm                    | Photometric Method: sphere-spectroradiometer       |
| Stabilization Time: 30 Sec    ALC.: 1.0000 | Photometric Condition: Sphere diameter: 1.50m, 4PI |
| Max of Signal: 46347 (2329)                | CCD Integration Time: 994.89 ms                    |

**IES TM-30-18 Color Rendition Report**

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Condition: Tx:19.3'C, Ti:17.2'C, R.H.:60%  
 Test Lab: TECSOLELED S.L.  
 Operator: JORDAN GIL DIAZ

Test Device: Inventfine CMS-2S (Plus)  
 Test Time: 2021-11-10 14:04:43  
 Inspector: