



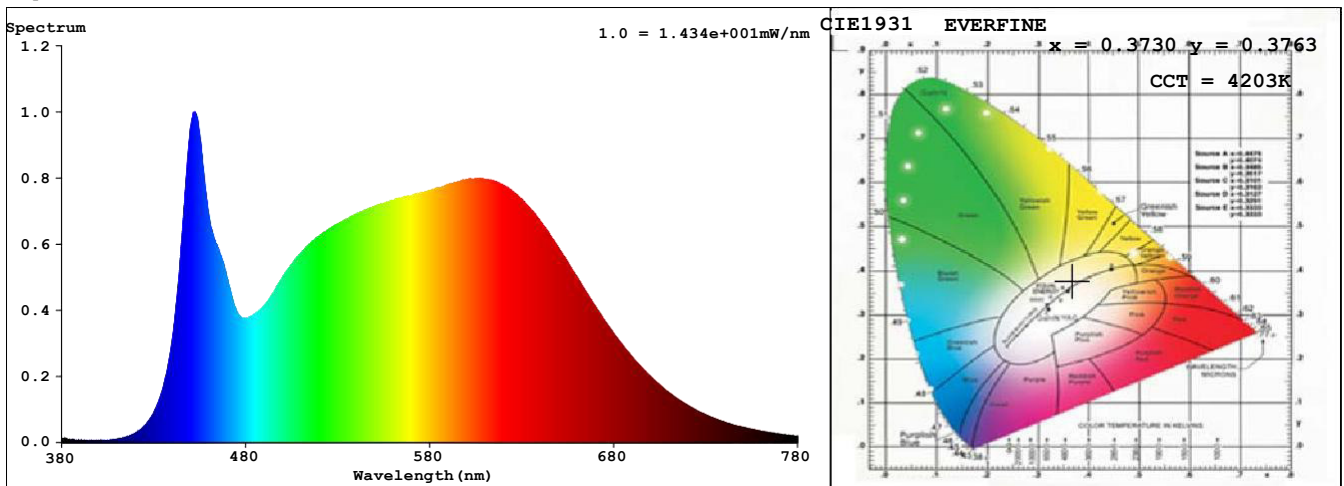
## Spectrum Test Report

|               |                                                      |            |                       |
|---------------|------------------------------------------------------|------------|-----------------------|
| Sample        | : <b>E12W131W40</b>                                  | Date       | : 2019-01-17 16:32:27 |
| Specification | : 2835 60LED 6mm Zigzag 12V 7.2W 4500K CRI90 IP20 1M |            |                       |
| Sample No.    | : LD18111903B#28                                     | Instrument | : HaasSuite(EVERFINE) |
| Manufacturer  | :                                                    | Test by    | : <b>Velleman</b>     |
| Assessor      | :                                                    |            |                       |
| Remark        | : LD60-RZ2835-4000K-12-IP20                          |            |                       |

### Test Condition

|             |               |             |               |
|-------------|---------------|-------------|---------------|
| Temperature | : 25.3Deg     | RH          | : 65.0%       |
| WL Range    | : 380nm-780nm | IP          | : 45989 (70%) |
| Test Mode   | : Fast Test   | T           | : 270 ms      |
|             |               | Sensitivity | : High        |

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3730$   $y = 0.3763$  /  $u' = 0.2204$   $v' = 0.5003$  ( $duv=2.02e-03$ )

CCT= 4203K Prcp WL:  $L_d=577.1nm$  Purity=24.9%

Peak WL:  $L_p=453nm$  FWHM:  $=26.1nm$  Ratio: R=18.8% G=76.7% B=4.5%

Render Index:  $R_a = 91.2$  CRI = 87.2 AvgR = 87.2 TM30:  $R_f=89$   $R_g=97$

R1 =91 R2 =95 R3 =97 R4 =90 R5 =90 R6 =92 R7 =93

R8 =82 R9 =55 R10=87 R11=90 R12=68 R13=92 R14=98 R15=88

LEVEL:OUT WHITE:ANSI\_4000K

### Photometric & Radiometric Parameters

Flux = 726.15 lm Eff. : 105.11 lm/W Fe = 2.3956 W

Flux of emitted photons( $\mu mol/s$ ):11.378 Fluo. and blue light ratio:5.075 Fluorescent eff.:289.8

### Electrical parameters

V = 12.00 V I = 0.5758 A P = 6.908 W PF = 1.000 F=0.00 Hz