



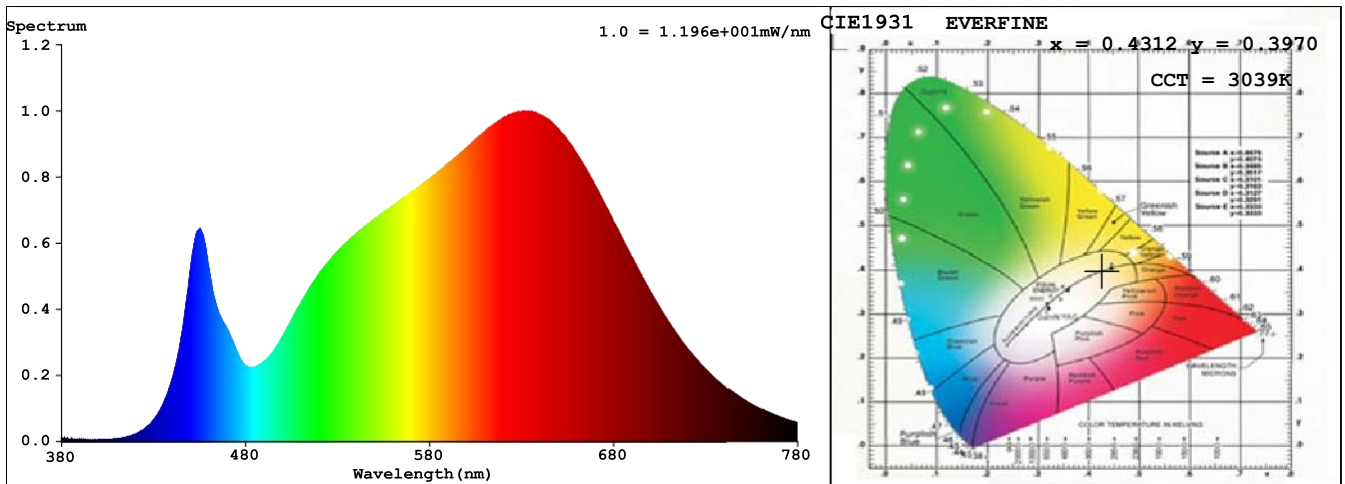
## Spectrum Test Report

Sample	: E24N352W30	Date	: 2019-04-20 08:08:45
Specification	: 2110 120LED 4MM 24V 7.2W 3000K IP20 CRI90 1M		
Sample No.	: LD19040302#35	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: Velleman
Assessor	:		
Remark	:		

### Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 52676 (80%)
Test Mode	: Fast Test	T	: 330 ms
		Sensitivity	: High

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4312$   $y = 0.3970$  /  $u' = 0.2500$   $v' = 0.5177$  ( $duv = -2.08e-03$ )

CCT= 3039K Prcp WL:  $L_d = 583.4\text{nm}$  Purity=48.6%

Peak WL:  $L_p = 631\text{nm}$  FWHM: =176.4nm Ratio:R=24.1% G=73.1% B=2.8%

Render Index:  $R_a = 93.6$  CRI = 90.8 AvgR = 91.0 TM30:Rf=90 Rg=102

R1 =94 R2 =96 R3 =95 R4 =93 R5 =93 R6 =93 R7 =95

R8 =89 R9 =75 R10=89 R11=92 R12=76 R13=95 R14=96 R15=93

LEVEL:OUT WHITE:ANSI\_3000K

### Photometric & Radiometric Parameters

Flux = 604.13 lm Eff. : 77.39 lm/W Fe = 2.2425 W

Flux of emitted photons( $\mu\text{mol/s}$ ):11.211 Flu. and blue light ratio:9.063 Fluorescent eff.:258.8

### Electrical parameters

V = 24.00 V I = 0.3253 A P = 7.807 W PF = 1.000 F=0.00 Hz