



The Lightrail Blackline series is a commercial grade LED strip that produces up to 130 lumens per watt and also enables long lengths of up to 20m powered at just one end. The efficiency of this series enables your required light levels to be achieved by using up to 20% less power . For example: BL68 6.8w can match 9.6w, BL11 11w can match 14.4w and 15w will achieve a staggering 1900lm which is usually only available with some 19.2w strips. In addition to this , the high quality Samsung LED chip is only powered at around 55mA which is one third of its load capacity of 150mA. This creates maximum stability and peace of mind for your project

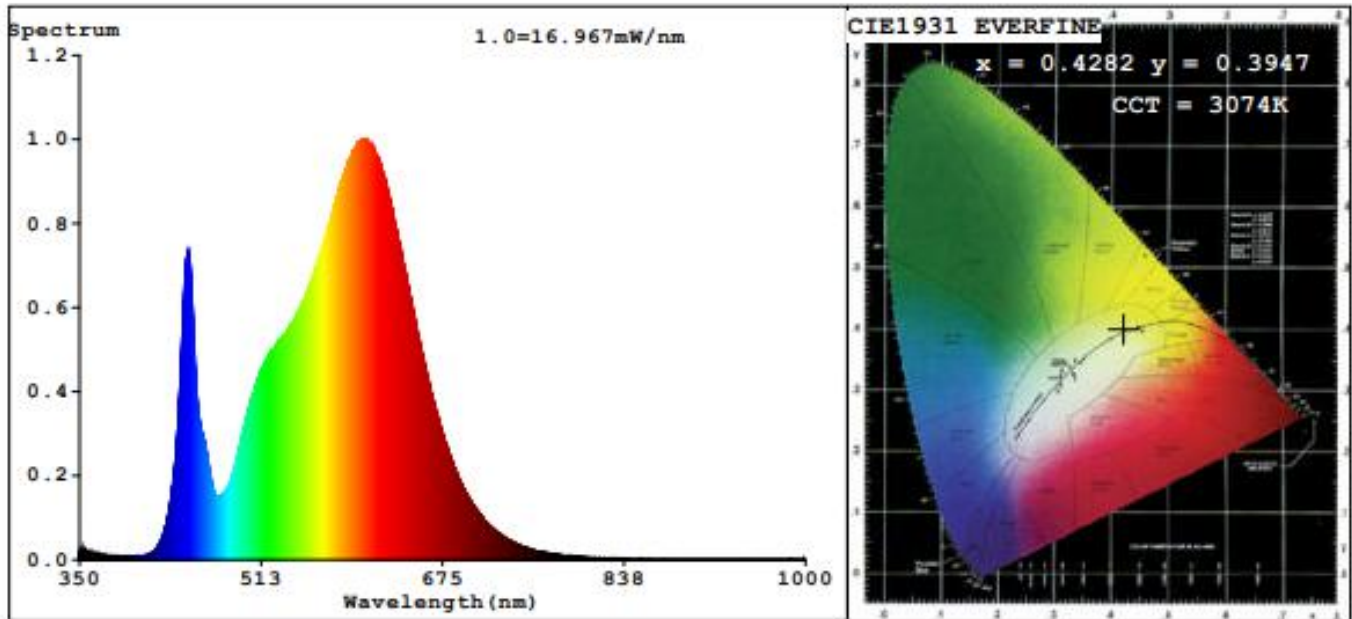




IP20 (10mm)	V	W	LED/m	COL TEMP	Approx LUMEN/M	MAX LENGTH
BL68.27K	24	6.8	120	2700K	802	20m
BL68.3K	24	6.8	120	3000K	816	20m
BL68.4K	24	6.8	120	4000K	884	20m
BL68.6K	24	6.8	120	6000K	884	20m

IP65 (10mm)	V	W	LED/m	COL TEMP	Approx LUMEN/M	MAX LENGTH
BL68.27K.IP65	24	6.8	120	2700K	802	20m
BL68.3K.IP65	24	6.8	120	3000K	816	20m
BL68.4K.IP65	24	6.8	120	4000K	884	20m
BL68.6K.IP65	24	6.8	120	6000K	884	20m

IP68 (14mm)	V	W	LED/m	COL TEMP	Approx LUMEN/M	MAX LENGTH
BL68.27K.IP68	24	6.8	120	2700K	802	20m
BL68.3K.IP68	24	6.8	120	3000K	816	20m
BL68.4K.IP68	24	6.8	120	4000K	884	20m
BL68.6K.IP68	24	6.8	120	6000K	884	20m

**BLACKLINE BL68 3000K****Color Parameters:**

Chromaticity Coordinate:  $x=0.4282$   $y=0.3947$  /  $u'=0.2490$   $v'=0.5163$   
 CCT=3074K (Duv=-0.0026) Dominant WL:  $L_d = 583.5\text{nm}$  Purity=47.0%  
 Ratio: R=22.8% G=74.7% B=2.5% Peak WL:  $L_p = 603.6\text{nm}$  FWHM=131.5nm  
 Render Index:  $R_a = 83.8$  AvgR=78.5

R1 =83 R2 =91 R3 =96 R4 =83 R5 =83 R6 =85 R7 =83  
 R8 =61 R9 =11 R10=79 R11=84 R12=75 R13=85 R14=98 R15=76

**Photo Parameters:**

Flux = 859.0 lm Eff. : 121.21 lm/W Fe = 2.556 W

**Electrical parameters:**

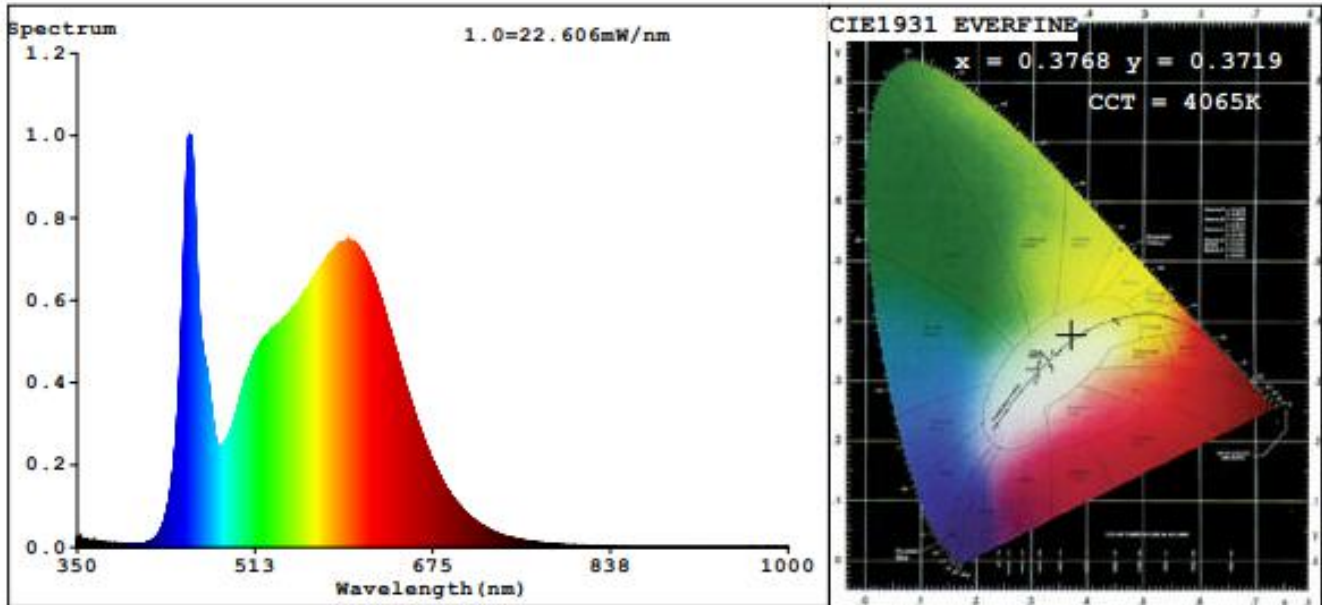
V = 23.997 V I = 0.2953 A P = 7.087 W PF = 1.000  
 LEVEL:OUT WHITE:ANSI\_3000K

Status: Integral T = 263 ms Ip = 51195 (78%)

Model: BL68.3K  
 Tester:  
 Temperature: 25.3Deg  
 Manufacturer: Lightrail

Number: 1  
 Date: 2023-04-13 10:56:26  
 Humidity: 65.0%  
 Remarks: 1M



**BLACKLINE BL68 4000K****Color Parameters:**

Chromaticity Coordinate:  $x=0.3768$   $y=0.3719$  /  $u'=0.2247$   $v'=0.4989$   
CCT=4065K (Duv=-0.0012) Dominant WL:  $L_d = 579.6\text{nm}$  Purity=24.7%  
Ratio: R=18.7% G=77.3% B=4.0% Peak WL:  $L_p=453.5\text{nm}$  FWHM=18.5nm  
Render Index:  $R_a=85.8$  AvgR=80.2

R1 =85    R2 =93    R3 =96    R4 =84    R5 =85    R6 =89    R7 =87  
R8 =68    R9 =21    R10=82    R11=84    R12=63    R13=88    R14=98    R15=80

**Photo Parameters:**

Flux = 919.8 lm    Eff. : 130.55 lm/W     $F_e = 3.021$  W

**Electrical parameters:**

V = 23.997 V    I = 0.2936 A    P = 7.046 W PF = 1.000

LEVEL:OUT    WHITE:ANSI\_4000K

Status: Integral T = 245 ms     $I_p = 50724$  (77%)

Model:BL68.4K  
Tester:  
Temperature:25.3Deg  
Manufacturer:Lightrail

Number: 2  
Date:2023-04-14 10:04:24  
Humidity:65.0%  
Remarks:1M