

PHILIPS

Fortimo

LED

Fortimo LED Strip iXt 1ft
HF BC HV7



Datasheet

Redefining brilliance with efficiency and innovation

Key features and benefits

- Two lumen output versions: 2000 lm/ft and 3000 lm/ft
- LED module efficiency of 185 Lm/W (4000K, CRI80)
- Robust LED package to withstand high temperatures
- Long life time of >100,000 hours
- High color rendering: CRI >80
- Excellent color consistency of 3 SDCM
- Variation of color temperatures: 3000 K, 4000 K, 5000 K, and 6500 K
- Two lengths: 1ft and 2ft
- Wide case temperature (Tc) range from -40 °C to +95 °C
- A 7 year warranty is granted when combined with an LED Driver from the Xitanium iXt range. Otherwise, the standard 5 year warranty applies

Application: Industry, Warehouse, Office, Marine

January 2026



Ordering data

| Commercial product name | EOC | 12NC | Box quantity |
|---|-------------------|----------------|--------------|
| Fortimo LED Strip iXt 1ft HF BC 830 HV7 | 8721103 122650 00 | 9290 040 11306 | 84 |
| Fortimo LED Strip iXt 1ft HF BC 835 HV7 | 8721103 122674 00 | 9290 040 11406 | 84 |
| Fortimo LED Strip iXt 1ft HF BC 840 HV7 | 8721103 122698 00 | 9290 040 11506 | 84 |

Drive currents

| Parameter | Nominal* | Life** | Max*** | Unit |
|-------------------------------------|----------|--------|--------|------|
| Fortimo LED Strip iXt 1ft HF BC HV7 | 274 | 400 | 480 | mA |

Module temperatures

| Parameter | Nominal* | Life** | Max*** | Unit |
|---|----------|--------|--------|------|
| T _c (case temperature at T _c point) | 55 | 90 | 95 | °C |

* Nominal value at which typical performance is specified

** Value at which life time is specified




*** Maximum value for safe operation, do not operate above this value

Optical characteristics

Fortimo LED Strip iXt 1ft HF BC 830 HV7

Fortimo LED Strip iXt 1ft HF BC 835 HV7

Fortimo LED Strip iXt 1ft HF BC 840 HV7

| CCT | 3000K | 3500K | 4000K | Unit |
|---|---|---|---|------|
| Luminous flux (Φ_{use})* | 1930 | 1970 | 2000 | lm |
| Efficacy* | 179 | 182 | 185 | lm/W |
| Average Luminous flux (tolerance -2% + 8%) | 1990 | 2021 | 2041 | lm |
| Average Efficacy | 188 | 191 | 193 | lm/W |
| Max. Color consistency | 3 | 3 | 3 | SDCM |
| Color coordinates (CIEx, CIEy) | 0.432, 0.399 | 0.405, 0.387 | 0.380, 0.375 | |
| Min. CRI | 80 | 80 | 80 | |
| Min. R9 | 0 | 0 | 0 | |
| Max. Photobiological safety | RG1 unlimited | RG1 unlimited | RG1 unlimited | |
| Energy label EPREL | C  | C  | C  | |

Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5.

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%.

* Luminous flux (Φ_{use}) and Efficacy refer to Single Lighting Regulation (SLR). Luminous flux (Φ_{use}) means the part of the luminous flux of a light source that is considered when determining its energy efficiency: - for non-directional light sources it is the total flux emitted in a solid angle of 4π sr (corresponding to a 360° sphere)

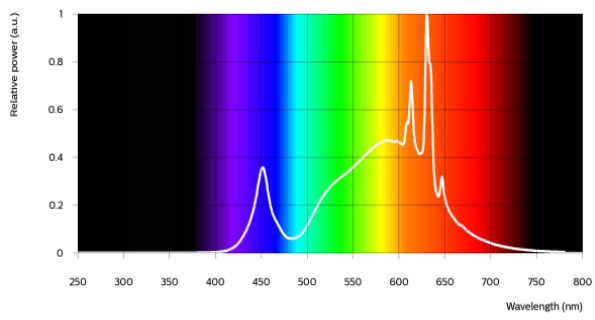
Tuning table

| Operation Point | | Current | 3000K | 3500K | 4000K | Unit |
|-----------------------|---------------|-----------------|-------|-------|-------|------|
| T _c = 25°C | Luminous flux | 80% I-nom 219mA | 1667 | 1695 | 1711 | lm |
| | | I-nom 274mA | 2062 | 2098 | 2118 | lm |
| | | I-max 480mA | 3486 | 3560 | 3595 | lm |
| | Efficacy | 80% I-nom 219mA | 198 | 202 | 204 | lm/W |
| | | I-nom 274mA | 194 | 198 | 200 | lm/W |
| | | I-max 480mA | 179 | 183 | 184 | lm/W |
| T _c = 55°C | Luminous flux | 80% I-nom 219mA | 1610 | 1634 | 1650 | lm |
| | | I-nom 274mA | 1990 | 2021 | 2041 | lm |
| | | I-max 480mA | 3364 | 3427 | 3461 | lm |
| | Efficacy | 80% I-nom 219mA | 194 | 197 | 199 | lm/W |
| | | I-nom 274mA | 188 | 191 | 193 | lm/W |
| | | I-max 480mA | 174 | 178 | 179 | lm/W |
| T _c = 95°C | Luminous flux | 80% I-nom 219mA | 1521 | 1460 | 1475 | lm |
| | | I-nom 274mA | 1880 | 1805 | 1823 | lm |
| | | I-max 480mA | 3177 | 3048 | 3078 | lm |
| | Efficacy | 80% I-nom 219mA | 185 | 178 | 180 | lm/W |
| | | I-nom 274mA | 181 | 175 | 177 | lm/W |
| | | I-max 480mA | 167 | 160 | 162 | lm/W |

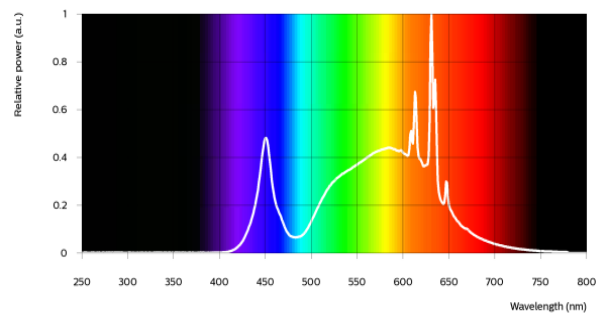
*Based on average value

Spectral characteristics

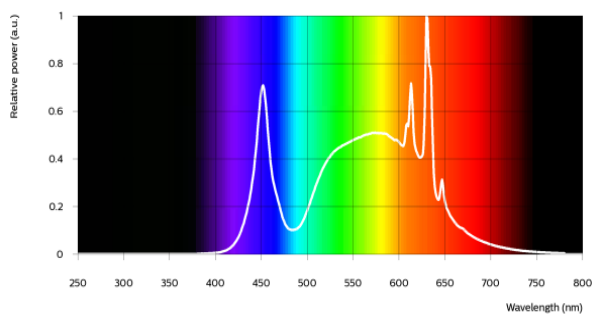
CRI80 3000K



CRI80 3500K



CRI80 4000K



Electrical characteristics

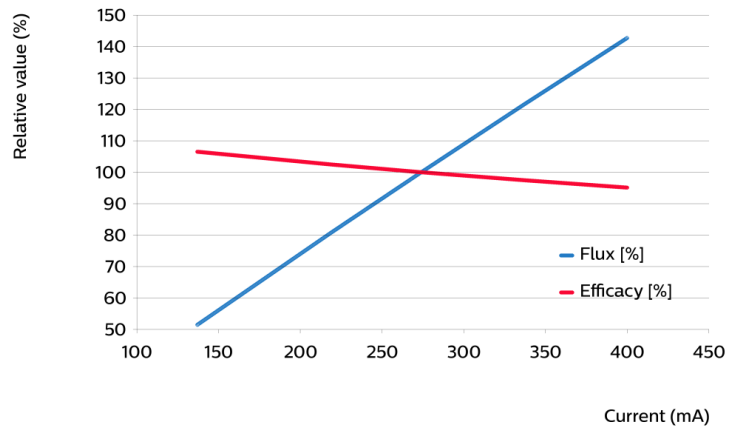
| Parameter | Min | Typ | Max | Unit |
|---------------------------------------|------|------|------|---------------|
| Forward voltage | 37.3 | 39.5 | 40.2 | V |
| Power consumption | 10.2 | 10.8 | 11.0 | W = kWh/1000h |
| Number of modules in series per chain | | | 8 | |
| Number of modules in parallel | | | 2 | |

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%

Tuning information

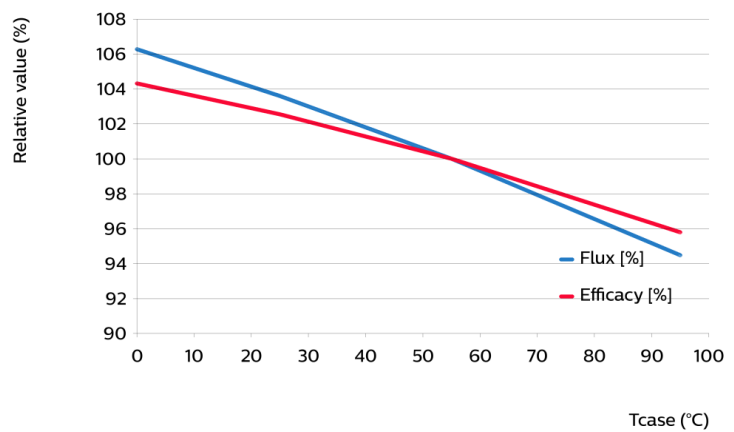
Flux and efficacy versus current (at Tc nominal)

| I [mA] | Flux [%] | Efficacy [%] |
|--------|----------|--------------|
| 400 | 143 | 95 |
| 337 | 122 | 97 |
| 274 | 100 | 100 |
| 219 | 81 | 102 |
| 137 | 51 | 106 |



Flux and efficacy versus temperature at Tc (at I nominal)

| Tc [°C] | Flux [%] | Efficacy [%] |
|---------|----------|--------------|
| 95 | 94 | 96 |
| 55 | 100 | 100 |
| 25 | 104 | 103 |
| 0 | 106 | 104 |



Lumen maintenance

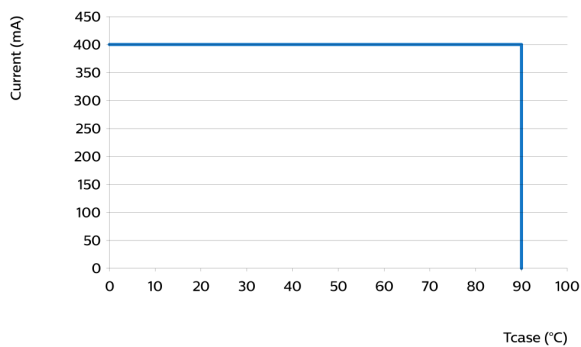
| Operation point | Lumen maintenance x 1000 hours | L70 | | | L80 | | | L90 | | |
|--------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|
| | | B50 | B20 | B10 | B50 | B20 | B10 | B50 | B20 | B10 |
| 80% Inom= 219,2 mA | Tc=25°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| | Tc_nom=55°C | >100 | >100 | >100 | >100 | >100 | >100 | 78 | 76 | 74 |
| | Tc_life=90°C | >100 | 85 | 64 | >100 | 85 | 64 | 55 | 53 | 52 |
| Inom=274 mA | Tc=25°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| | Tc_nom=55°C | >100 | >100 | >100 | >100 | >100 | >100 | 76 | 74 | 72 |
| | Tc_life=90°C | >100 | 85 | 64 | >100 | 85 | 64 | 54 | 52 | 51 |
| Ilife=400 mA | Tc=25°C | >100 | >100 | >100 | >100 | >100 | >100 | 100 | 96 | 95 |
| | Tc_nom=55°C | >100 | >100 | >100 | >100 | >100 | >100 | 70 | 68 | 67 |
| | Tc_life=90°C | >100 | 85 | 64 | >100 | 85 | 64 | 50 | 48 | 47 |

We use a Philips designed lifetime model, which uses LM80 data as only one of its inputs, and assumes a continues operation of the module. Please check design-in guide for more information on industry conditions.

Lifetime

| Parameter | Value | Unit |
|----------------|---------|-------|
| M70F50 nominal | >100000 | hours |
| M70F50 life | >100000 | hours |

Performance Window



Application information

Certificates and Standards

CB
ENEC
ENEC+
CE

Application

Dimming

Yes



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