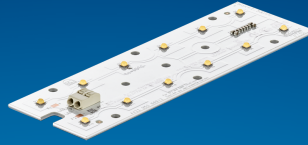


PHILIPS

Fortimo

LED

Fortimo FastFlex LED 2x6
DP G5



Datasheet

Protection on LED module level

FastFlex DP G5

Combine Fortimo FastFlex DP G5 with third-party lenses for instant protection

Application:

- Road lighting
- Urban street lighting
- Flood and area lighting
- Tunnel lighting
- High bay lighting

Key features and benefits

- IP66 protected LED module in combination with third-party lenses
- Module efficacy upgrade compared to previous generations
- Mechanically backwards compatible with Gen 4+
- Best-in-class reliability testing for OEM peace of mind
- Embedded module surge protection
- Philips system warranty

December 2025



Zhaga

Ordering data

| Commercial product name | EOC | 12NC | Box quantity |
|------------------------------------|-------------------|----------------|--------------|
| Fortimo FastFlex LED 2x6/730 DP G5 | 8719514 318571 00 | 9290 028 68306 | 25 |
| Fortimo FastFlex LED 2x6/740 DP G5 | 8719514 318595 00 | 9290 028 68406 | 25 |
| Fortimo FastFlex LED 2x6/757 DP G5 | 8719514 318632 00 | 9290 028 68606 | 25 |
| Fortimo FastFlex LED 2x6/840 DP G5 | 8719514 318618 00 | 9290 028 68506 | 25 |

Drive currents

| Parameter | Nominal* | Life** | Max*** | Unit |
|--------------------------------|----------|--------|--------|------|
| Fortimo FastFlex LED 2x6 DP G5 | 530 | 1050 | 1500 | mA |

Module temperatures

| Parameter | Nominal* | Life** | Max*** | Unit |
|---|----------|--------|--------|------|
| T _c (case temperature at T _c point) | 80 | 85 | 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 FastFlex LED 2x6/730 DP G5](#)

[Fortimo FastFlex LED 2x6/740 DP G5](#)

[Fortimo FastFlex LED 2x6/757 DP G5](#)

| CCT | 3000K | 4000K | 5700K | Unit |
|---|---|---|---|------|
| Luminous flux (Φ_{use})* | 2830 | 3065 | 3085 | lm |
| Efficacy* | 159 | 172 | 173 | lm/W |
| Average Luminous flux (tolerance -5% + 5%) | 3097 | 3324 | 3295 | lm |
| Average Efficacy (tolerance -5% + 5%) | 176 | 189 | 187 | lm/W |
| Max. Efficacy | 194 | 206 | 205 | lm/W |
| Max. Color consistency | 5 | 5 | 5 | SDCM |
| Color coordinates (CIEx, CIEy) | 0.436, 0.404 | 0.385, 0.383 | 0.330, 0.345 | |
| Min. CRI | 70 | 70 | 70 | |
| Min. R9 | -50 | -50 | -50 | |
| Photometric code | 730/579 | 740/579 | 757/579 | |
| Max. Photobiological safety | RG2 | RG2 | RG2 | |
| Ethr | 860 | 860 | 860 | |
| Energy label EPREL | D  | D  | C  | |

[Fortimo FastFlex LED 2x6/840 DP G5](#)

| CCT | 4000K | Unit |
|---|---|------|
| Luminous flux (Φ_{use})* | 2680 | lm |
| Efficacy* | 151 | lm/W |
| Average Luminous flux (tolerance -5% + 5%) | 2962 | lm |
| Average Efficacy (tolerance -5% + 5%) | 169 | lm/W |
| Max. Efficacy | 184 | lm/W |
| Max. Color consistency | 5 | SDCM |
| Color coordinates (CIEx, CIEy) | 0.385, 0.383 | |
| Min. CRI | 80 | |
| Min. R9 | 0 | |
| Photometric code | 840/579 | |
| Max. Photobiological safety | RG2 | |
| Ethr | 860 | |
| Energy label EPREL | D  | |

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

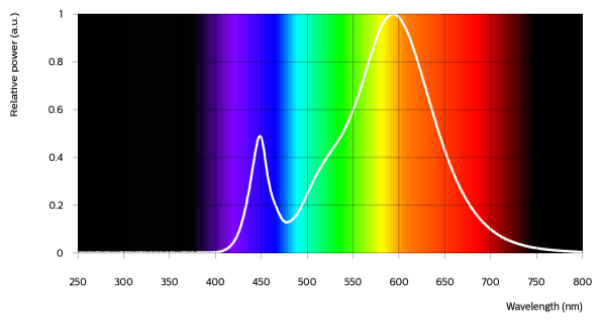
| Operation Point | | Current | 3000K | 4000K | 5700K | Unit |
|-----------------|---------------|-----------------|-------|-------|-------|------|
| Tc = 25°C | Luminous flux | 80% I-nom 424mA | 2438 | 2639 | 2656 | lm |
| | | I-nom 530mA | 2976 | 3223 | 3243 | lm |
| | | I-max 1500mA | 7272 | 7877 | 7927 | lm |
| | Efficacy | 80% I-nom 424mA | 167 | 181 | 182 | lm/W |
| | | I-nom 530mA | 162 | 175 | 177 | lm/W |
| | | I-max 1500mA | 131 | 142 | 143 | lm/W |
| Tc = 80°C | Luminous flux | 80% I-nom 424mA | 2318 | 2510 | 2526 | lm |
| | | I-nom 530mA | 3097 | 3324 | 3295 | lm |
| | | I-max 1500mA | 6831 | 7407 | 7455 | lm |
| | Efficacy | 80% I-nom 424mA | 164 | 178 | 179 | lm/W |
| | | I-nom 530mA | 176 | 189 | 187 | lm/W |
| | | I-max 1500mA | 127 | 138 | 138 | lm/W |
| Tc = 95°C | Luminous flux | 80% I-nom 424mA | 2259 | 2447 | 2462 | lm |
| | | I-nom 530mA | 2757 | 2987 | 3006 | lm |
| | | I-max 1500mA | 6612 | 7173 | 7220 | lm |
| | Efficacy | 80% I-nom 424mA | 161 | 175 | 176 | lm/W |
| | | I-nom 530mA | 156 | 169 | 170 | lm/W |
| | | I-max 1500mA | 124 | 134 | 135 | lm/W |

| Operation Point | | Current | 4000K | Unit |
|-----------------|---------------|-----------------|-------|------|
| Tc = 25°C | Luminous flux | 80% I-nom 424mA | 2309 | lm |
| | | I-nom 530mA | 2820 | lm |
| | | I-max 1500mA | 6887 | lm |
| | Efficacy | 80% I-nom 424mA | 159 | lm/W |
| | | I-nom 530mA | 154 | lm/W |
| | | I-max 1500mA | 124 | lm/W |
| Tc = 80°C | Luminous flux | 80% I-nom 424mA | 2195 | lm |
| | | I-nom 530mA | 2962 | lm |
| | | I-max 1500mA | 6465 | lm |
| | Efficacy | 80% I-nom 424mA | 156 | lm/W |
| | | I-nom 530mA | 169 | lm/W |
| | | I-max 1500mA | 120 | lm/W |
| Tc = 95°C | Luminous flux | 80% I-nom 424mA | 2139 | lm |
| | | I-nom 530mA | 2611 | lm |
| | | I-max 1500mA | 6255 | lm |
| | Efficacy | 80% I-nom 424mA | 153 | lm/W |
| | | I-nom 530mA | 148 | lm/W |
| | | I-max 1500mA | 117 | lm/W |

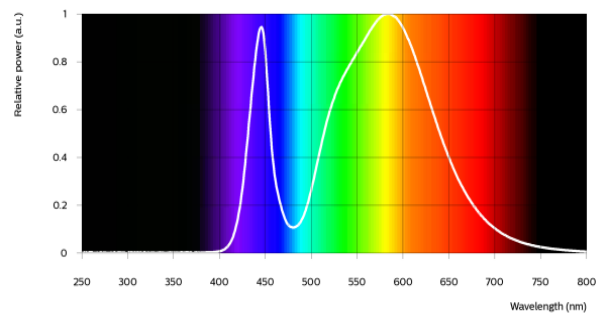
*Based on average value

Spectral characteristics

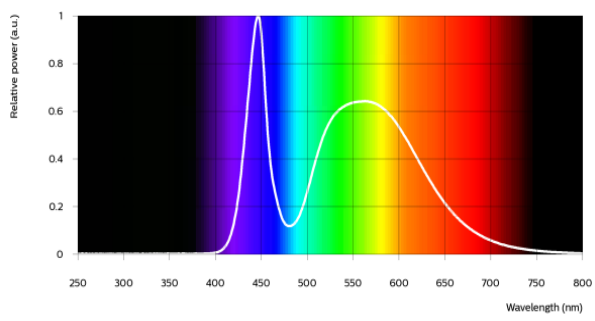
CRI70 3000K



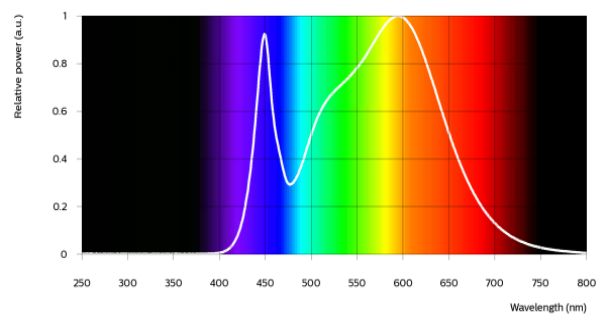
CRI70 4000K



CRI70 5700K



CRI80 4000K



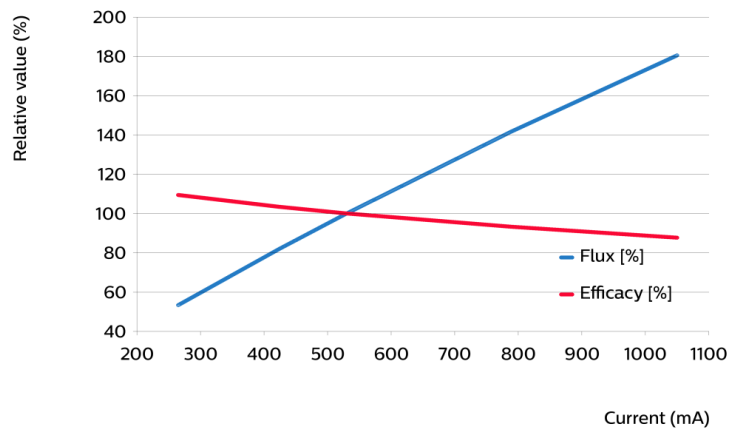
Electrical characteristics

| Parameter | Min | Typ | Max | Unit |
|---------------------------------------|------|------|------|---------------|
| Forward voltage | 31.8 | 33.6 | 34.8 | V |
| Power consumption | 16.9 | 17.8 | 18.4 | W = kWh/1000h |
| Number of modules in series per chain | | | 10 | |
| Number of modules in parallel | | | 1 | |

Tuning information

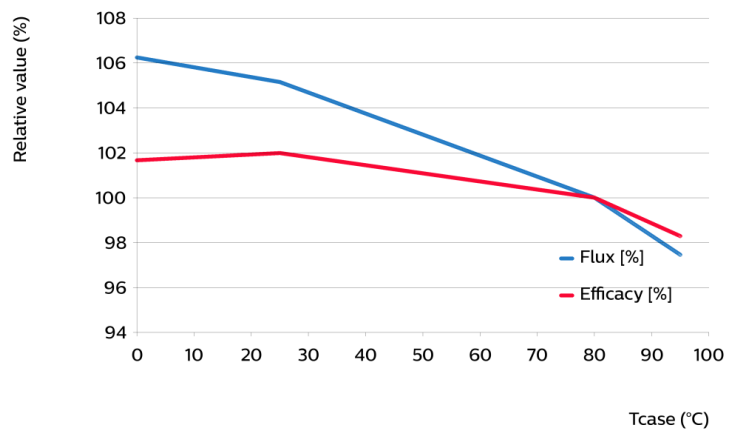
Flux and efficacy versus current (at Tc nominal)

| I [mA] | Flux [%] | Efficacy [%] |
|--------|----------|--------------|
| 1050 | 180 | 88 |
| 790 | 142 | 93 |
| 530 | 100 | 100 |
| 424 | 82 | 103 |
| 265 | 53 | 109 |



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

| Tc [°C] | Flux [%] | Efficacy [%] |
|---------|----------|--------------|
| 95 | 97 | 98 |
| 80 | 100 | 100 |
| 25 | 105 | 102 |
| 0 | 106 | 102 |



Lumen maintenance

| Operation point | Lumen maintenance x 1000 hours | L70 | | | L80 | | | L90 | | |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|
| | | B50 | B20 | B10 | B50 | B20 | B10 | B50 | B20 | B10 |
| I 530 mA | Tc 60°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| | Tc 70°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| | Tc 80°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| I 700 mA | Tc 60°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| | Tc 70°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| | Tc 80°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| I 1050 mA | Tc 60°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| | Tc 70°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |
| | Tc 80°C | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 | >100 |

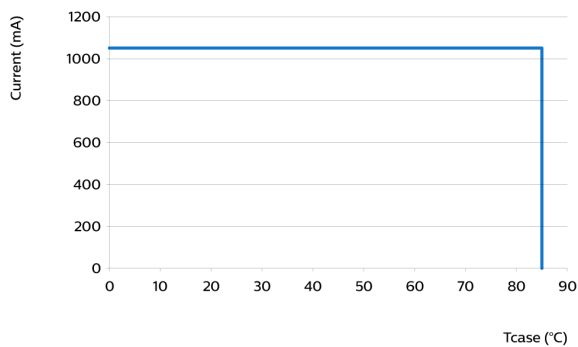
We use a Philips designed lifetime model, which uses LM80 data as only one of its inputs and assumes a continuous operation of the module.

*B20 and B10 values are calculated by means of statistical techniques.

Lifetime

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

Performance Window

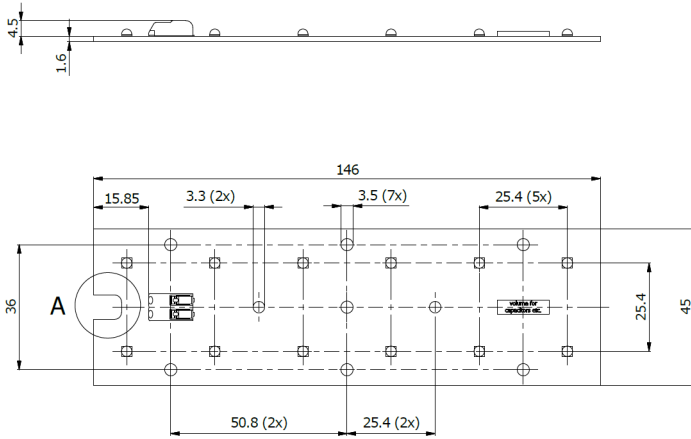


Wiring

| Specification item | Value | Unit | Condition |
|--------------------------|-------------|-----------------|---------------|
| Input wire cross-section | 0.33...0.5 | mm ² | stranded wire |
| | 20...22 | AWG | stranded wire |
| Input wire strip length | 7.5...8.5 | mm | |
| Input wire cross-section | 0.25...0.75 | mm ² | solid wire |
| | 18...24 | AWG | solid wire |
| Input wire strip length | 7.5...8.5 | mm | |

Mechanical characteristics

| Parameter | Min | Typ | Max | Unit |
|------------------------|-------|-----|-------|------|
| Length | 145.9 | 146 | 146.1 | mm |
| Width | 44.9 | 45 | 45.1 | mm |
| Height excl. connector | 1.5 | 1.6 | 1.7 | mm |
| Height incl. connector | 6 | 6.1 | 6.2 | mm |
| Product mass | | 29 | | gram |



Absolute ratings

| Parameter | Min | Max | Unit |
|---|-----|-------|-----------------|
| Current through the LED module (I-max) | | 1500 | mA |
| Case temperature (Tc-max) | | 95 | °C |
| Thermal power at I-max and Tc-max (Pth) | | 36.01 | W |
| ESD (direct contact) | 8 | | kV |
| ESD (air) | 15 | | kV |
| Working voltage | | 575 | V _{dc} |
| Ambient temperature | -40 | 50 | °C |
| Storage temperature | -20 | 80 | °C |

Application information

Certificates and Standards

CE
ENEC
ENEC+
UL

Zhaga

Compliant*

*Book 19, 2x6-IP

Application

Overheating protection

No

Dimming

Yes



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10/12/2025