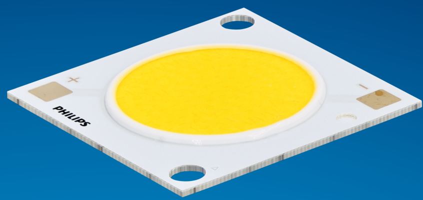
PHILIPS

# Fortimo

## LED

Fortimo SLM Food 1211
G8 HE



Datasheet

# Fine-tuning spectrum to better cater to various food applications

## Fortimo LED SLM G8 Food

Continuously striving to achieve the optimal balance between light quality and performance, Fortimo SLM G8 Food guarantees the latest efficacy while fine-tuning the spectrum to better cater to various food applications such as meat, seafood, vegetables, and bakery products. Furthermore, this product line maintains a consistent footprint, allowing customers to seamlessly upgrade without requiring significant modifications to mechanical or optical components.

### Key features and benefits

- Up to 40% efficacy improvement Vs previous generation
- Extensive flux ranges from 2100 to 6600 lm (@nom)
- Fine-tuned spectrum covering meat, seafood, vegetables, and bakery products applications
- System approach

June 2025

## Ordering data

| Commercial product name | EOC | 12NC | EPREL registration # | Box quantity |
|---|---|---|---|---|
| Fortimo SLM C 925 FWW 1211 L19 2828 G8 HE | 8721103 118011 00 | 9290 048 38401 | N/A | 10 |
| Fortimo SLM C 930 FPR 1211 L19 2828 G8 HE | 8721103 118073 00 | 9290 048 37801 | N/A | 10 |
| Fortimo SLM C 950 FFS 1211 L19 2828 G8 HE | 8721103 118103 00 | 9290 048 38101 | 2374924 | 10 |
| Fortimo SLM C 930 PC 1211 L19 2828 G8 HE | 8720169 379367 00 | 9290 038 93980 | 2093788 | 10 |

Not all products are globally available by default.
Please contact your local sales representative for local availability and activation conditions.

## Drive currents

| Parameter | Nominal* | Life** | Max*** | Unit |
|---|---|---|---|---|
| Fortimo SLM Food 1211 G8 HE | 1200 | 1980 | 1980 | mA |

## Module temperatures

| Parameter | Nominal* | Life** | Max*** | Unit |
|---|---|---|---|---|
| $T_c$ (case temperature at $T_c$ point) | 65 | 95 | 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

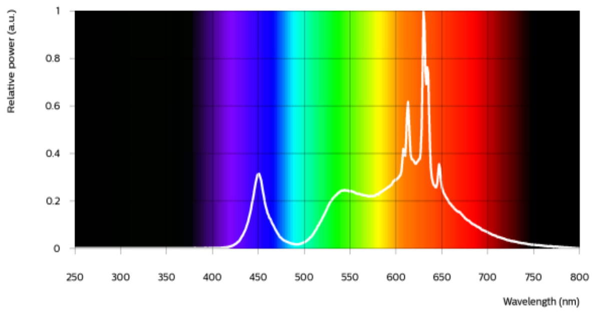
## Optical characteristics - table per color (CCT)

### Fortimo SLM C 925 FWW 1211 L19 2828 G8 HE

| Parameter | Min | Typ | Max | Unit |
|---|---|---|---|---|
| Luminous flux | 5044 | 5310 | 5841 | lm |
| Efficacy | | 125 | | lm/W |
| Correlated color temperature (CCT) | | 2500 | | K |
| Color coordinates (CIEx, CIEy) | | (0.446, 0.366) | | - |
| Color consistency | | | 2 | SDCM |
| CRI | 90 | | | |
| R9 | 78 | | | |
| Photometric code | | 925/259 | | |
| Photobiological safety | | RG1 unlimited | | |

Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

| Operation point | 925 | lm | lm/W |
|---|---|---|---|
| 80% I-nom 960mA | Tc 25 °C | 4526 | 135 |
| | Tc-nom 65 °C | 4337 | 131 |
| | Tc-max 95 °C | 4143 | 126 |
| I-nom 1200mA | Tc 25 °C | 5545 | 129 |
| | Tc-nom 65 °C | 5310 | 125 |
| | Tc-max 95 °C | 5068 | 121 |
| I-max 1980mA | Tc 25 °C | 8628 | 113 |
| | Tc-nom 65 °C | 8241 | 109 |
| | Tc-max 95 °C | 7841 | 105 |

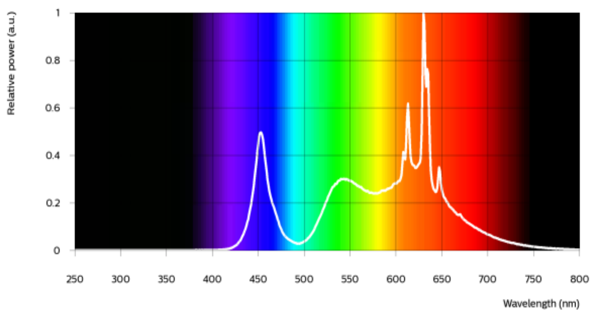



### Fortimo SLM C 930 FPR 1211 L19 2828 G8 HE

| Parameter | Min | Typ | Max | Unit |
|---|---|---|---|---|
| Luminous flux | 5154 | 5425 | 5968 | lm |
| Efficacy | | 128 | | lm/W |
| Correlated color temperature (CCT) | | 3000 | | K |
| Color coordinates (CIEx, CIEy) | | (0.406, 0.350) | | - |
| Color consistency | | | 2 | SDCM |
| CRI | 90 | | | |
| R9 | 75 | | | |
| Photometric code | | 930/259 | | |
| Photobiological safety | | RG1 unlimited | | |

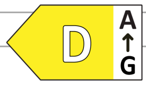
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

| Operation point | 930 | lm | lm/W |
|---|---|---|---|
| 80% I-nom 960mA | Tc 25 °C | 4623 | 138 |
| | Tc-nom 65 °C | 4431 | 134 |
| | Tc-max 95 °C | 4233 | 129 |
| I-nom 1200mA | Tc 25 °C | 5664 | 132 |
| | Tc-nom 65 °C | 5425 | 128 |
| | Tc-max 95 °C | 5178 | 123 |
| I-max 1980mA | Tc 25 °C | 8816 | 116 |
| | Tc-nom 65 °C | 8421 | 112 |
| | Tc-max 95 °C | 8014 | 107 |



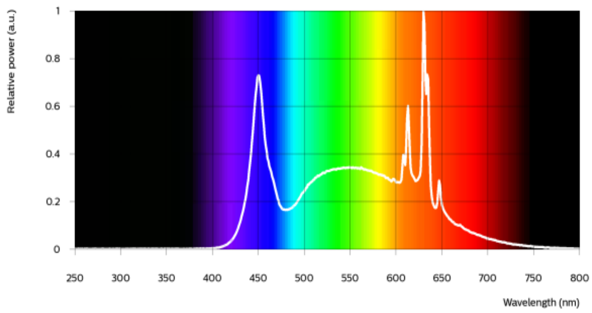
## Fortimo SLM C 950 FFS 1211 L19 2828 G8 HE

| Parameter | Min | Typ | Max | Unit |
|---|---|---|---|---|
| Luminous flux | 6308 | 6640 | 7304 | lm |
| Efficacy | | 156 | | lm/W |
| Correlated color temperature (CCT) | | 5000 | | K |
| Color coordinates (CIEx, CIEy) | | (0.343, 0.331) | | - |
| Color consistency | | | 2 | SDCM |
| CRI | 91 | | | |
| R9 | 70 | | | |
| Photometric code | | 950/259 | | |
| Photobiological safety | | RG1 unlimited | | |



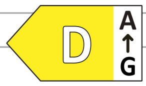

Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

| Operation point | 950 | lm | lm/W |
|---|---|---|---|
| 80% I-nom 960mA | Tc 25 °C | 5656 | 169 |
| | Tc-nom 65 °C | 5422 | 164 |
| | Tc-max 95 °C | 5181 | 158 |
| I-nom 1200mA | Tc 25 °C | 6930 | 161 |
| | Tc-nom 65 °C | 6640 | 156 |
| | Tc-max 95 °C | 6340 | 151 |
| I-max 1980mA | Tc 25 °C | 10792 | 142 |
| | Tc-nom 65 °C | 10315 | 137 |
| | Tc-max 95 °C | 9823 | 131 |



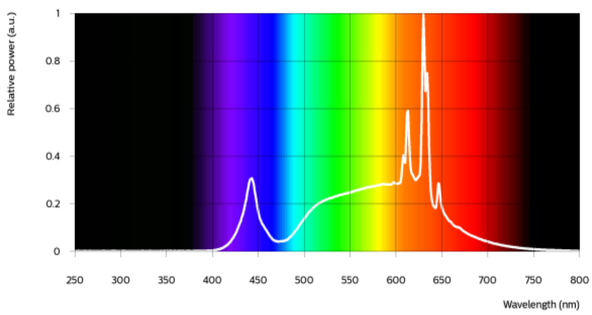

## Fortimo SLM C 930 PC 1211 L19 2828 G8 HE

| Parameter | Min | Typ | Max | Unit |
|---|---|---|---|---|
| Luminous flux | 6023 | 6340 | 6974 | lm |
| Efficacy | | 149 | | lm/W |
| Correlated color temperature (CCT) | | 3000 | | K |
| Color coordinates (CIEx, CIEy) | | (0.422, 0.386) | | - |
| Color consistency | | | 2 | SDCM |
| CRI | 90 | | | |
| R9 | >70 | | | |
| Photometric code | | 930/259 | | |
| Photobiological safety | | RG1 unlimited | | |

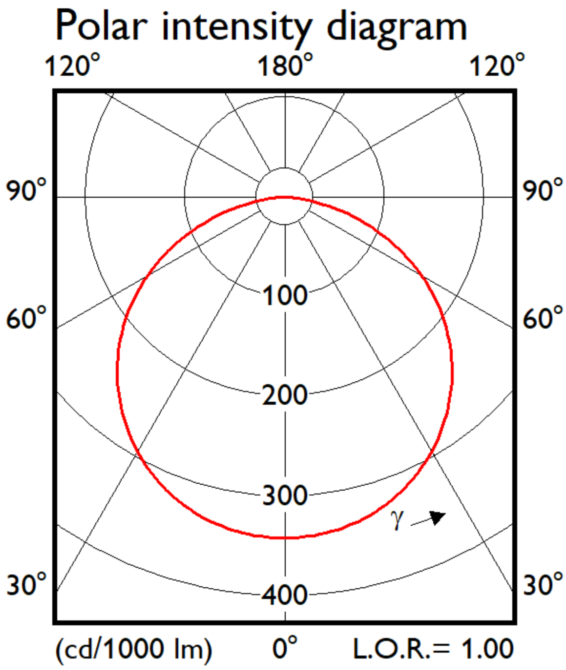



Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

| Operation point | 930 | lm | lm/W |
|---|---|---|---|
| 80% I-nom 960mA | Tc 25 °C | 5445 | 163 |
| | Tc-nom 65 °C | 5152 | 156 |
| | Tc-max 95 °C | 4863 | 148 |
| I-nom 1200mA | Tc 25 °C | 6704 | 156 |
| | Tc-nom 65 °C | 6340 | 149 |
| | Tc-max 95 °C | 5981 | 142 |
| I-max 1980mA | Tc 25 °C | 10594 | 139 |
| | Tc-nom 65 °C | 10001 | 132 |
| | Tc-max 95 °C | 9416 | 126 |



## Beam shape



Polar intensity diagram
120°
180°
120°
90°
90°
60°
60°
100
200
300
400
γ
30°
30°
(cd/1000 lm)
0°
L.O.R.= 1.00

## Electrical characteristics

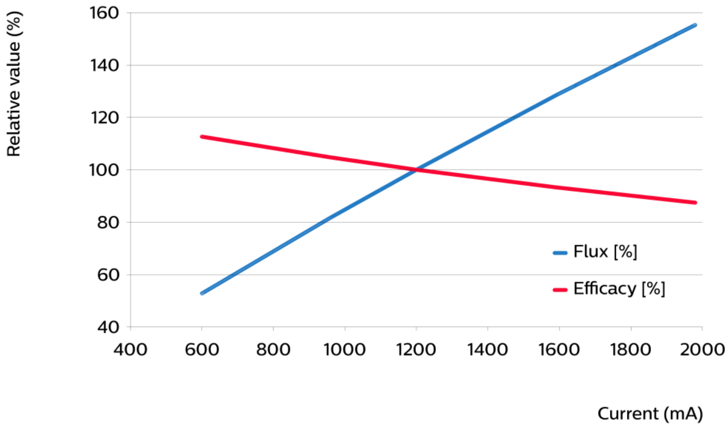
| Parameter | Min | Typ | Max | Unit |
|---|---|---|---|---|
| Forward voltage | 32.5 | 35.4 | 37.0 | V |
| Power consumption | | 42.5 | | W = kWh/1000h |
| Number of modules in series per chain | | | 1 | |
| Number of modules per chain | | | 1 | |
| Number of modules in parallel | | | 1 | |

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

## Tuning information

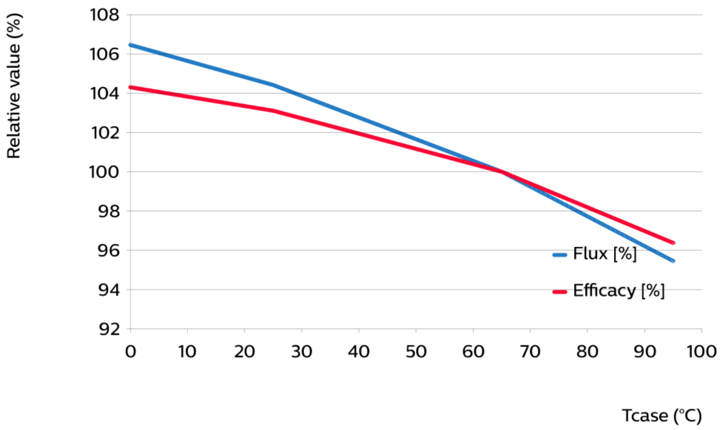
Flux and efficacy versus current (at Tc nominal)

| I [mA] | Flux [%] | Efficacy [%] |
|---|---|---|
| 1980 | 155 | 87 |
| 1590 | 128 | 93 |
| 1200 | 100 | 100 |
| 960 | 82 | 105 |
| 600 | 53 | 113 |




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

| Tc [°C] | Flux [%] | Efficacy [%] |
|---|---|---|
| 95 | 95 | 96 |
| 65 | 100 | 100 |
| 25 | 104 | 103 |
| 0 | 106 | 104 |



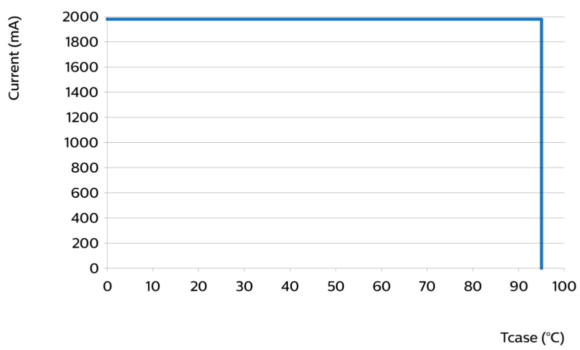
## Lumen maintenance

| Operation point | Lumen maintenance x 1000 hours | L70 | | | L80 | | | L90 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | B50 | B20 | B10 | B50 | B20 | B10 | B50 | B20 | B10 |
| 80% I-nom 960mA | Tc 50°C | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 |
| | Tc 65°C | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 |
| | Tc 95°C | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 |
| I-nom 1200mA | Tc 50°C | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 |
| | Tc 65°C | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 | >66 |
| | Tc 95°C | >66 | >66 | >66 | >66 | >66 | >66 | 57 | 48 | 44 |
| I-max 1980mA | Tc 50°C | >66 | >66 | >66 | >66 | >66 | >66 | 50 | 42 | 39 |
| | Tc 65°C | >66 | >66 | >66 | >66 | >66 | 62 | 38 | 32 | 29 |
| | Tc 95°C | >66 | >66 | 60 | 49 | 41 | 38 | 23 | 19 | 17 |

## Lifetime

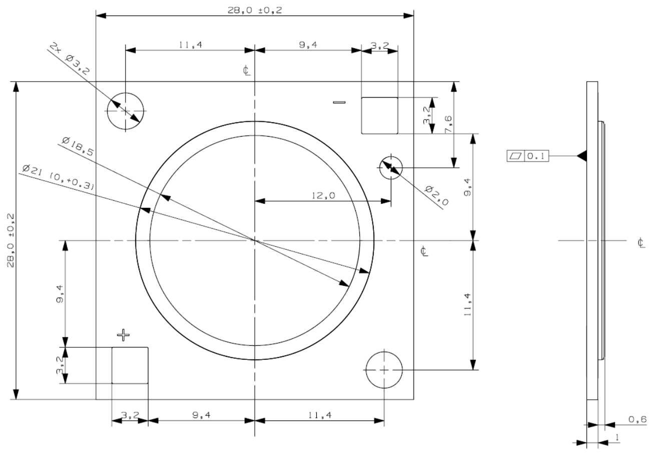
| Parameter | Value | Unit |
|---|---|---|
| M70F50 nominal | >66000 | hours |

## Performance Window




## Mechanical characteristics

| Parameter | Min | Typ | Max | Unit |
|---|---|---|---|---|
| Length | 27.8 | 28 | 28.2 | mm |
| Width | 27.8 | 28 | 28.2 | mm |
| Height PCB | 0.9 | 1 | 1.1 | mm |
| Height including dam | 1.3 | 1.6 | 1.9 | mm |
| Product mass | | 2.14 | | gram |




## Absolute ratings

| Parameter | Min | Max | Unit |
|---|---|---|---|
| Current through the LED module (I-max) | | 1980 | mA |
| Case temperature (Tc-max) | | 95 | °C |
| ESD (direct contact) | 8 | | kV |
| Working voltage | | 60 | $V_{dc}$ |
| Ambient temperature | -20 | 40 | °C |
| Storage temperature | -40 | 80 | °C |

At illumination levels exceeding 1342 lux risk group classification may be RG2.

## Application information

### Certificates and Standards

CB
CE
ENEC
ENEC+
EPRS 001
IEC 62031
UKCA
UL
UL 8750

### Environmental

RoHS/REACH

| Application | |
|---|---|
| Dimming | Yes |

UK importer address: Signify Commercial UK Limited, 3 Guildford Business Park, GU2 8XG

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