

# PHILIPS

## Fortimo

### LED

Fortimo SLM PC 1208 L15  
2024 G7



## Datasheet

# Experience bright and vivid colors

### Fortimo LED SLM PC 1208 L15 2024 G7

Fortimo LED SLM Gen7 continues to focus on the combination of Quality of Light and performance. By offering the CoB separate from the holder, even more flexibility in possible system combinations and specifications is achieved. This results in an extensive portfolio of lumen ranges, CCTs and spectra. Please also check the online Easy Design-in Tool for your perfect system combination ([www.easydesignintool.com](http://www.easydesignintool.com))

#### Key features and benefits

- Best quality of light available for all applications
- Instant full light
- Extensive range of CCT's
- Flexibility to select a different lumen output between 800 and 10000 lm
- State of the art Chip-on-Board (CoB) technology, enabling highest system efficacy
- System proposition (CoB + Holder + driver)
- Flexibility to optimize luminaire performance (lm/W or high lm output)
- Xitanium window drivers with SimpleSet for maximum flexibility
- Mini drivers for smallest possible luminaire designs
- Five years system warranty with over 50,000 hours lifetime
- Four dedicated product lines:
  - SLM Premium White
  - SLM Premium Color
  - SLM CrispWhite
  - SLM Food

September 2021



## Ordering data

| Commercial product name               | EOC               | 12NC           | Box quantity |
|---------------------------------------|-------------------|----------------|--------------|
| Fortimo SLM C 930 PC 1208 L15 2024 G7 | 8718699 615857 00 | 9290 016 47906 | 20           |

## Drive currents

| Parameter                       | Nominal* | Life**                 | Max*** | Unit |
|---------------------------------|----------|------------------------|--------|------|
| Fortimo SLM PC 1208 L15 2024 G7 | 750      | see performance window | 1500   | mA   |

## Module temperatures

| Parameter                                                 | Nominal* | Life**                 | Max*** | Unit |
|-----------------------------------------------------------|----------|------------------------|--------|------|
| T <sub>c</sub> (case temperature at T <sub>c</sub> point) | 85       | see performance window | 95     | °C   |

\* Nominal value at which typical performance is specified

\*\* Value at which life time is specified

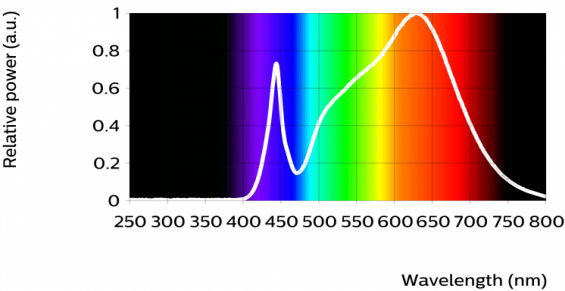
\*\*\* Maximum value for safe operation, do not operate above this value

Optical characteristics - table per color (CCT)

Fortimo SLM C 930 PC 1208 L15 2024 G7

| Parameter                          | Min                                   | Typ            | Max           | Unit |
|------------------------------------|---------------------------------------|----------------|---------------|------|
| Luminous flux                      | 2763                                  | 3070           | 3377          | lm   |
| Module efficacy                    | 108                                   | 120            |               | lm/W |
| Correlated color temperature (CCT) |                                       | 3000           |               | K    |
| Color coordinates (CIEx, CIEy)     |                                       | (0.422, 0.386) |               | -    |
| Color consistency                  |                                       |                | 3             | SDCM |
| CRI                                | 90                                    | 92             |               |      |
| R9                                 | 50                                    |                |               |      |
| Photometric code                   | <div><div>E</div><div>A↑G</div></div> | 930/359        |               |      |
| Photobiological safety             |                                       |                | RG1 unlimited |      |

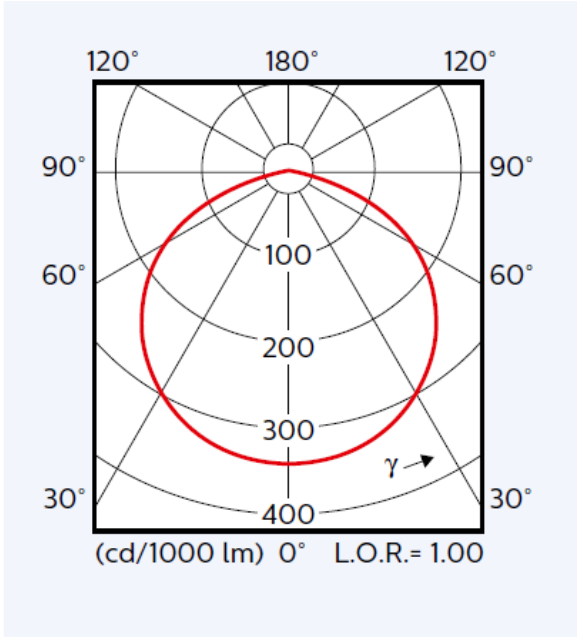
| Operation point | 930          | lm   | lm/W |
|-----------------|--------------|------|------|
| 80% I-nom 600mA | Tc 25 °C     | 2668 | 130  |
|                 | Tc-nom 85 °C | 2516 | 125  |
|                 | Tc-max 95 °C | 2485 | 124  |
| I-nom 750mA     | Tc 25 °C     | 3275 | 125  |
|                 | Tc-nom 85 °C | 3070 | 120  |
|                 | Tc-max 95 °C | 3028 | 119  |
| I-max 1500mA    | Tc 25 °C     | 5983 | 106  |
|                 | Tc-nom 85 °C | 5508 | 100  |
|                 | Tc-max 95 °C | 5410 | 98   |



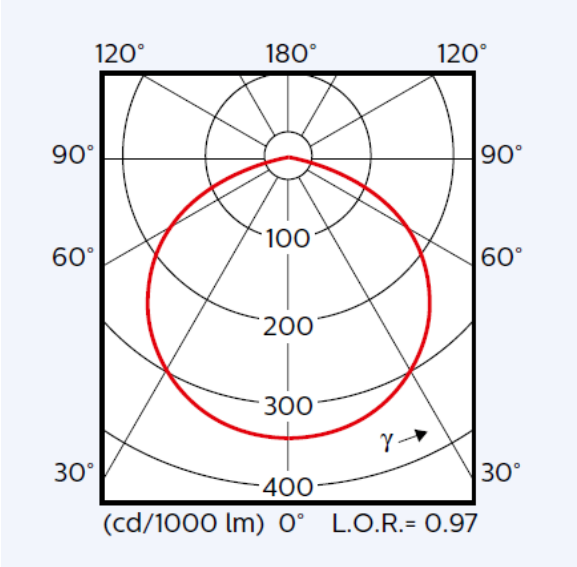
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| 97 | 96 | 94 | 91 | 95 | 96 | 91 | 88 | 75 | 90  | 92  | 88  | 96  | 96  |

Beam shape

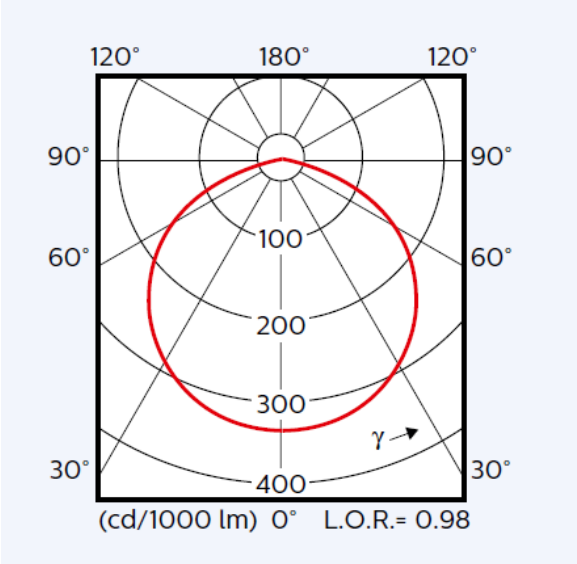
Bare CoB



CoB with a standard/ down-light/ Zhaga poke-in holder



CoB with a poke-in holder



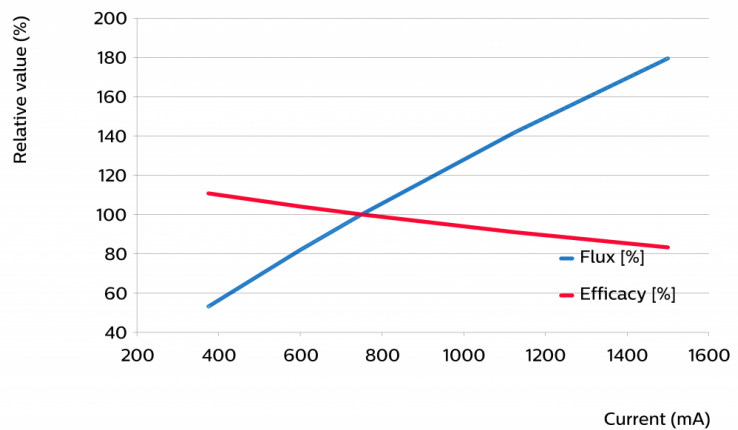
## Electrical characteristics

| Parameter                             | Min  | Typ  | Max  | Unit          |
|---------------------------------------|------|------|------|---------------|
| Forward voltage                       | 31.8 | 34.1 | 36.8 | V             |
| Power consumption                     | 23.9 | 25.6 | 27.6 | W = kWh/1000h |
| Number of modules in series per chain |      |      | 1    |               |
| Number of modules per chain           |      |      | 1    |               |
| Number of modules in parallel         |      |      | 1    |               |

## Tuning information

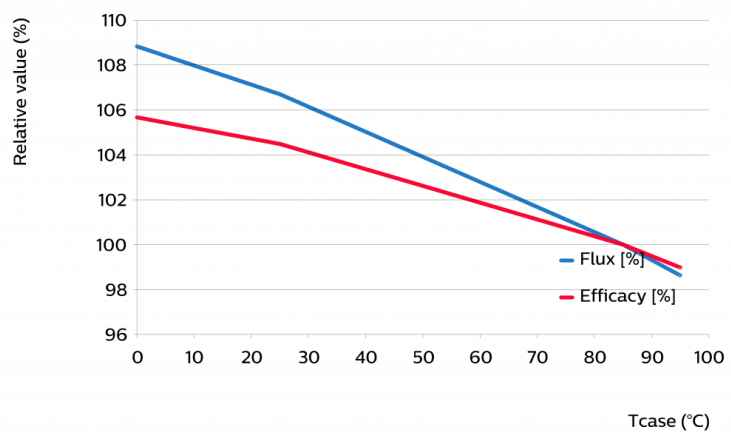
Flux and efficacy versus current (at Tc nominal)

| I [mA] | Flux [%] | Efficacy [%] |
|--------|----------|--------------|
| 1500   | 179      | 83           |
| 1125   | 142      | 91           |
| 750    | 100      | 100          |
| 600    | 82       | 104          |
| 375    | 53       | 111          |



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

| Tc [°C] | Flux [%] | Efficacy [%] |
|---------|----------|--------------|
| 95      | 99       | 99           |
| 85      | 100      | 100          |
| 25      | 107      | 104          |
| 0       | 109      | 106          |



## Lumen maintenance

| Operation point  | Lumen maintenance<br>x 1000 hours | L70 |     |     | L80 |     |     | L90 |     |     |
|------------------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |                                   | B50 | B20 | B10 | B50 | B20 | B10 | B50 | B20 | B10 |
| 80% I nom 600 mA | Tc 65°C                           | >50 | >50 | >50 | >50 | >50 | >50 | >50 | >50 | 40  |
|                  | Tc nom 85°C                       | >50 | >50 | >50 | >50 | 47  | 38  | 34  | 22  | 18  |
|                  | Tc max 95°C                       | >50 | >50 | 41  | 49  | 32  | 26  | 23  | 15  | 12  |
| I nom 750 mA     | Tc 65°C                           | >50 | >50 | >50 | >50 | >50 | >50 | >50 | 45  | 36  |
|                  | Tc nom 85°C                       | >50 | >50 | >50 | >50 | 43  | 34  | 31  | 20  | 16  |
|                  | Tc max 95°C                       | >50 | 47  | 38  | 45  | 29  | 24  | 21  | 14  | 11  |
| I max 1500 mA    | Tc 65°C                           | >50 | >50 | >50 | >50 | >50 | 42  | 37  | 24  | 20  |
|                  | Tc nom 85°C                       | >50 | 39  | 31  | 37  | 24  | 20  | 18  | 12  | 9   |
|                  | Tc max 95°C                       | 42  | 27  | 22  | 26  | 17  | 14  | 12  | 8   | 7   |

## Lifetime

| Parameter      | Value  | Unit  |
|----------------|--------|-------|
| C10 at Tc life | 50000  | hours |
| M70F50 nominal | >50000 | hours |
| M70F50 life    | >50000 | hours |

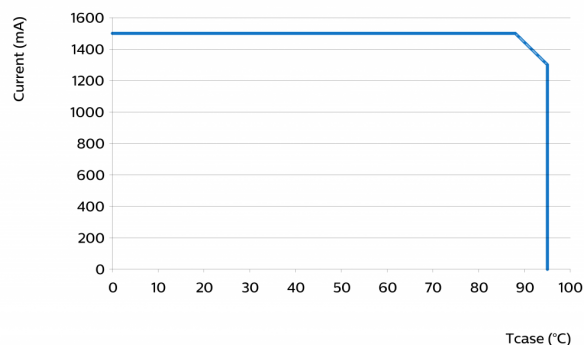
Switching cycles in accordance to EU 1194/2012: >15000

At I life L70B50>50000 hours.

Charts presenting module's lumen maintenance data are available via your sales representative.

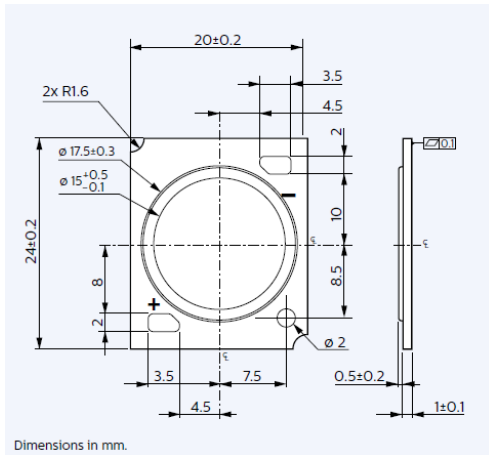
Please refer to the performance window to ensure that your operati

## Performance Window



## Mechanical characteristics

| Parameter            | Min  | Typ  | Max  | Unit |
|----------------------|------|------|------|------|
| Length               | 23.8 | 24   | 24.2 | mm   |
| Width                | 19.8 | 20   | 20.2 | mm   |
| Height PCB           | 0.9  | 1    | 1.1  | mm   |
| Height including dam | 1.2  | 1.5  | 1.8  | mm   |
| Product mass         |      | 1.23 |      | gram |



## Absolute ratings

| Parameter                              | Min | Max  | Unit            |
|----------------------------------------|-----|------|-----------------|
| Current through the LED module (I-max) |     | 1500 | mA              |
| Case temperature (Tc-max)              |     | 95   | °C              |
| Power at rated Vf-max and I-max        |     | 59.1 | W               |
| ESD (direct contact)                   | 8   |      | kV              |
| Working voltage                        |     | 330  | V <sub>dc</sub> |
| Ambient temperature                    |     | 40   | °C              |
| Storage temperature                    | -40 | 80   | °C              |

## Application information

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### Certificates and Standards

IEC 62031:2008/A1:2012/A2:2014

EN 62031:2008/A1:2013/A2:2015

Relevant clauses of IEC 62471:2006 (Incl. IEC/TR 62471-2: 2009 and IEC/TR 62778: 2014)

Relevant clauses of IEC 60838-1:2004/A1:2008/A2:2011 with IEC 60838-2-2:2006 /A1:2012

Relevant clauses of EN 62471:2008 (With IEC/TR 62471-2: 2009 and IEC/TR 62778: 2014)

Relevant clauses of EN 60838-1:2004/A1:2008/A2:2011 with EN 60838-2-2:2006/A1:2012

UL 8750

ENEC+

CE

### Environmental

RoHS/REACH

### Application

|                        |                          |
|------------------------|--------------------------|
| IP rating              | No IP-rating             |
| Overheating protection | No                       |
| Luminaire class        | IEC Class I and Class II |
| Dimming                | Yes                      |





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