

PHILIPS

LED Modules

Fortimo SLM

1208 L15 2024 G6



Philips Fortimo LED spotlight module (SLM) gen 6 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.na.easydesignintool.philips.com).

Ordering Data

| Commercial Product Name | 12NC | Minimum Order Quantity |
|------------------------------------|----------------|------------------------|
| Fortimo SLM C 730 1208 L15 2024 G6 | 9290 014 34606 | 20 |
| Fortimo SLM C 740 1208 L15 2024 G6 | 9290 014 45806 | 20 |
| Fortimo SLM C 750 1208 L15 2024 G6 | 9290 014 34706 | 20 |
| Fortimo SLM C 757 1208 L15 2024 G6 | 9290 014 34806 | 20 |
| Fortimo SLM C 827 1208 L15 2024 G6 | 9290 014 45906 | 20 |
| Fortimo SLM C 830 1208 L15 2024 G6 | 9290 014 46006 | 20 |
| Fortimo SLM C 835 1208 L15 2024 G6 | 9290 014 46106 | 20 |
| Fortimo SLM C 840 1208 L15 2024 G6 | 9290 014 46206 | 20 |
| Fortimo SLM C 850 1208 L15 2024 G6 | 9290 014 46306 | 20 |
| Fortimo SLM C 857 1208 L15 2024 G6 | 9290 014 46406 | 20 |
| Fortimo SLM C 927 1208 L15 2024 G6 | 9290 014 46506 | 20 |
| Fortimo SLM C 930 1208 L15 2024 G6 | 9290 014 46606 | 20 |

Not all products are currently available as make-to-stock. Please contact your local Philips representative for specific availability and lead time.

Fortimo SLM 1208 L15 2024 G6

Features

- Excellent quality of light available for all applications
- Extensive range of CCT
- Small LES for narrow beam angles and small reflector designs
- Flexibility to select a different lumen output between 800 lm and 10000 lm
- State-of-the-art chip-on-board (CoB) technology, enabling high system efficacy
- System proposition (CoB + holder + driver)

- Flexibility to optimize luminaire performance (lm/W or high lumen output)
- Philips Advance Xitanium LED window drivers with SimpleSet technology for maximum flexibility
- Mini drivers for smallest possible luminaire designs
- Three dedicated product lines:
 - SLM gen 6 premium white
 - SLM gen 6 crisp white
 - SLM gen 6 food

Benefits

- 5-year limited system warranty with over 50,000 hours lifetime¹

Applications

- Architectural lighting
- Retail spot lighting
- Recessed downlight

Drive Currents

| Parameter | Nominal* | Life** | Max*** | Unit |
|----------------------------------|----------|--------|--------|------|
| Fortimo LED SLM 1208 L15 2024 G6 | 750 | 1500 | 1500 | mA |

Module Temperatures

| Parameter | Nominal* | Life** | Max*** | Unit |
|-----------------------------------|----------|--------|--------|------|
| Tc (case temperature at Tc point) | 85 | 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

1. View limited warranty at <http://www.usa.lighting.philips.com/support/support/warranty> for details and restrictions.

Fortimo SLM 1208 L15 2024 G6

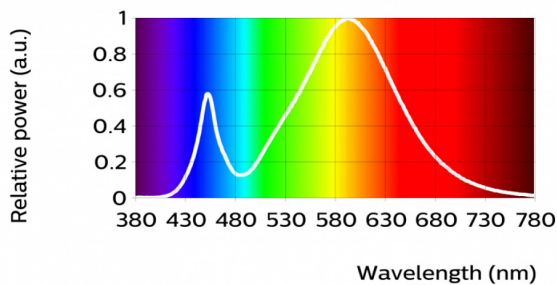
Optical Characteristics – Table per CCT

Fortimo SLM C 730 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3455 | 3840 | 4230 | lm |
| Module Efficiency | | 151 | | lm/W |
| Correlated Color Temperature (CCT) | | 3000 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.434, 0.403) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 70 | 72 | | – |

Measurement tolerances are: ±5% on flux, ±6% on efficiency, +0.005 on x,y, and ±1.5 on CRI.

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



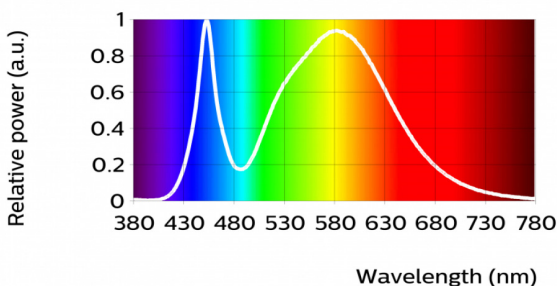
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 67 | 83 | 94 | 65 | 66 | 75 | 77 | 44 | -30 | 59 | 57 | 48 | 70 | 97 |

Fortimo SLM C 740 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3680 | 4090 | 4500 | lm |
| Module Efficiency | | 160 | | lm/W |
| Correlated Color Temperature (CCT) | | 4000 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.382, 0.380) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 70 | 72 | | – |

Measurement tolerances are: ±5% on flux, ±6% on efficiency, +0.005 on x,y, and ±1.5 on CRI.

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



| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 71 | 81 | 89 | 71 | 70 | 72 | 83 | 54 | -22 | 54 | 65 | 43 | 73 | 93 | |

Fortimo SLM 1208 L15 2024 G6

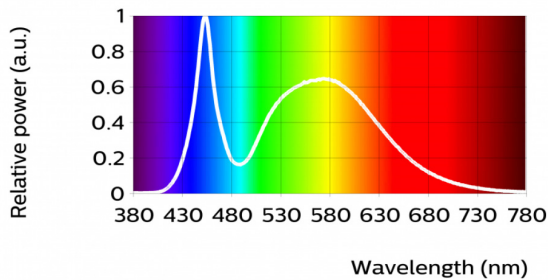
Optical Characteristics – Table per CCT

Fortimo SLM C 750 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3670 | 4080 | 4490 | lm |
| Module Efficiency | | 160 | | lm/W |
| Correlated Color Temperature (CCT) | | 5000 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.345, 0.355) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 70 | 72 | | – |

Measurement tolerances are: $\pm 5\%$ on flux, $\pm 6\%$ on efficiency, $+0.005$ on x,y, and ± 1.5 on CRI.

Measurement precision for flux $\pm 5\%$.
Measurement precision for efficacy $\pm 6\%$.
Measurement precision for x, y ± 0.005 .
Measurement precision for CRI ± 1.5 .



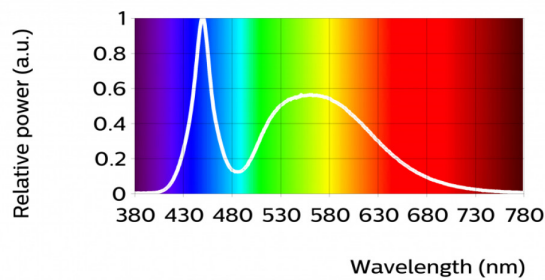
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 73 | 82 | 86 | 74 | 73 | 73 | 83 | 59 | -18 | 54 | 69 | 47 | 75 | 92 |

Fortimo SLM C 757 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3570 | 3960 | 4360 | lm |
| Module Efficiency | | 156 | | lm/W |
| Correlated Color Temperature (CCT) | | 5700 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.329, 0.342) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 70 | 72 | | – |

Measurement tolerances are: $\pm 5\%$ on flux, $\pm 6\%$ on efficiency, $+0.005$ on x,y, and ± 1.5 on CRI.

Measurement precision for flux $\pm 5\%$.
Measurement precision for efficacy $\pm 6\%$.
Measurement precision for x, y ± 0.005 .
Measurement precision for CRI ± 1.5 .



| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 71 | 77 | 80 | 74 | 72 | 68 | 82 | 61 | -23 | 45 | 71 | 43 | 72 | 89 |

Fortimo SLM 1208 L15 2024 G6

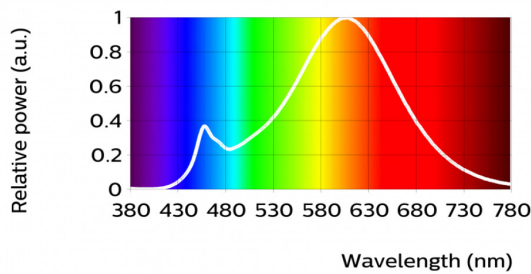
Optical Characteristics – Table per CCT

Fortimo SLM C 827 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3140 | 3490 | 3840 | lm |
| Module Efficiency | | 137 | | lm/W |
| Correlated Color Temperature (CCT) | | 2700 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.458, 0.410) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 80 | 82 | | – |

Measurement tolerances are: $\pm 5\%$ on flux, $\pm 6\%$ on efficiency, $+0.005$ on x,y, and ± 1.5 on CRI.

Measurement precision for flux $\pm 5\%$.
Measurement precision for efficacy $\pm 6\%$.
Measurement precision for x, y ± 0.005 .
Measurement precision for CRI ± 1.5 .



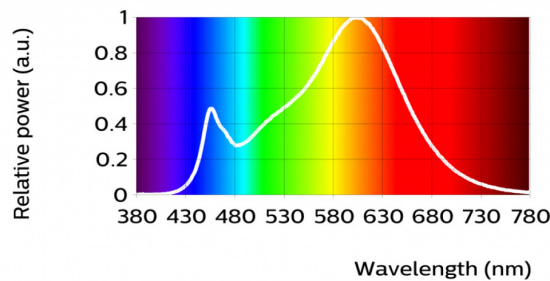
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 79 | 92 | 94 | 76 | 79 | 90 | 82 | 59 | 59 | 82 | 72 | 73 | 82 | 97 | |

Fortimo SLM C 830 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3270 | 3640 | 4000 | lm |
| Module Efficiency | | 143 | | lm/W |
| Correlated Color Temperature (CCT) | | 3000 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.434, 0.403) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 80 | 82 | | – |

Measurement tolerances are: $\pm 5\%$ on flux, $\pm 6\%$ on efficiency, $+0.005$ on x,y, and ± 1.5 on CRI.

Measurement precision for flux $\pm 5\%$.
Measurement precision for efficacy $\pm 6\%$.
Measurement precision for x, y ± 0.005 .
Measurement precision for CRI ± 1.5 .



| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 83 | 94 | 93 | 80 | 84 | 94 | 81 | 59 | 59 | 87 | 80 | 76 | 86 | 97 | |

Fortimo SLM 1208 L15 2024 G6

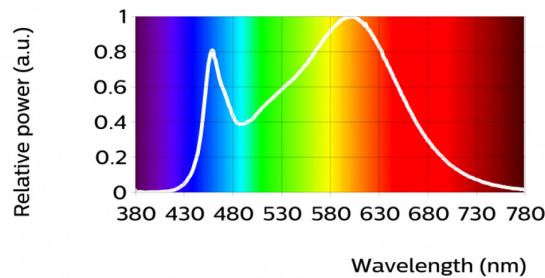
Optical Characteristics – Table per CCT

Fortimo SLM C 835 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3340 | 3710 | 4080 | lm |
| Module Efficiency | | 143 | | lm/W |
| Correlated Color Temperature (CCT) | | 3500 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.407, 0.392) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 80 | 82 | | – |

Measurement tolerances are: ±5% on flux, ±6% on efficiency, +0.005 on x,y, and ±1.5 on CRI.

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



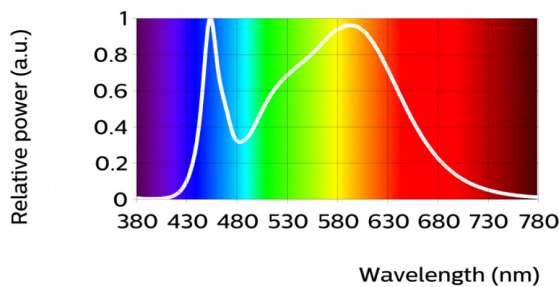
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 86 | 96 | 93 | 80 | 85 | 94 | 83 | 65 | 65 | 90 | 79 | 70 | 89 | 97 | |

Fortimo SLM C 840 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3410 | 3790 | 4160 | lm |
| Module Efficiency | | 148 | | lm/W |
| Correlated Color Temperature (CCT) | | 4000 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.382, 0.380) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 80 | 82 | | – |

Measurement tolerances are: ±5% on flux, ±6% on efficiency, +0.005 on x,y, and ±1.5 on CRI.

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



| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 80 | 89 | 96 | 79 | 80 | 85 | 86 | 63 | 63 | 74 | 77 | 58 | 82 | 98 | |

Fortimo SLM 1208 L15 2024 G6

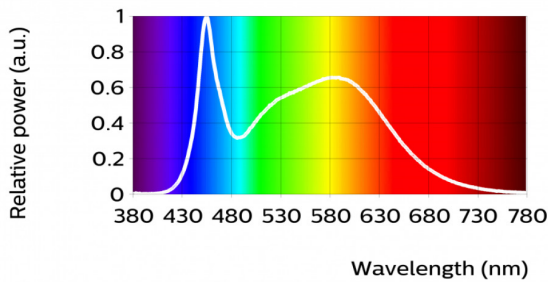
Optical Characteristics – Table per CCT

Fortimo SLM C 850 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3410 | 3790 | 4160 | lm |
| Module Efficiency | | 148 | | lm/W |
| Correlated Color Temperature (CCT) | | 5000 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.345, 0.355) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 80 | 82 | | – |

Measurement tolerances are: ±5% on flux, ±6% on efficiency, +0.005 on x,y, and ±1.5 on CRI.

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



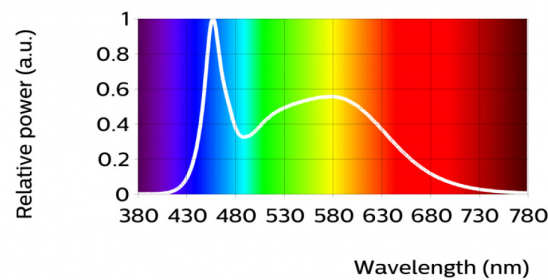
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 83 | 92 | 95 | 80 | 82 | 87 | 86 | 68 | 68 | 79 | 78 | 58 | 86 | 98 | |

Fortimo SLM C 857 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 3340 | 3710 | 4080 | lm |
| Module Efficiency | | 143 | | lm/W |
| Correlated Color Temperature (CCT) | | 5700 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.329, 0.342) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 80 | 82 | | – |

Measurement tolerances are: ±5% on flux, ±6% on efficiency, +0.005 on x,y, and ±1.5 on CRI.

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



| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 82 | 93 | 95 | 79 | 83 | 88 | 86 | 68 | 14 | 82 | 78 | 61 | 87 | 98 | |

Fortimo SLM 1208 L15 2024 G6

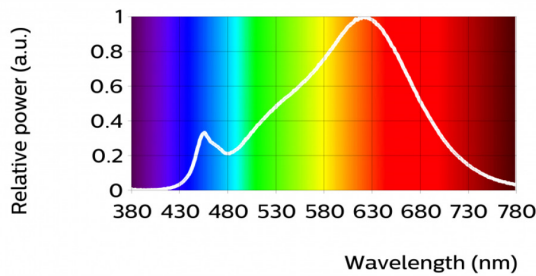
Optical Characteristics – Table per CCT

Fortimo SLM C 927 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 2600 | 2890 | 3180 | lm |
| Module Efficiency | | 113 | | lm/W |
| Correlated Color Temperature (CCT) | | 2700 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.458, 0.410) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 90 | 92 | | – |

Measurement tolerances are: ±5% on flux, ±6% on efficiency, +0.005 on x,y, and ±1.5 on CRI.

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



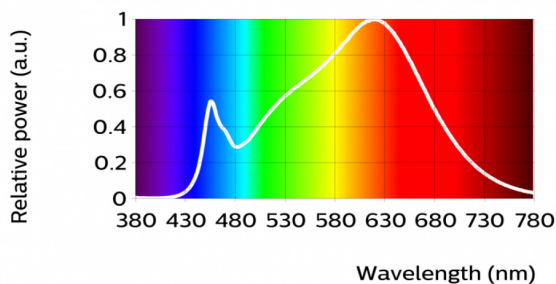
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 92 | 96 | 99 | 91 | 91 | 96 | 91 | 79 | 79 | 90 | 91 | 81 | 93 | 99 | |

Fortimo SLM C 930 1208 L15 2024 G6

| Parameter | Min | Typ | Max | Unit |
|------------------------------------|------|----------------|------|------|
| Luminous Flux | 2700 | 3000 | 3300 | lm |
| Module Efficiency | | 118 | | lm/W |
| Correlated Color Temperature (CCT) | | 3000 | | K |
| Color Coordinates (CIEx, CIEy) | | (0.434, 0.403) | | – |
| Color Consistency | | | 3 | SDCM |
| CRI | 90 | 92 | | – |

Measurement tolerances are: ±5% on flux, ±6% on efficiency, +0.005 on x,y, and ±1.5 on CRI.

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

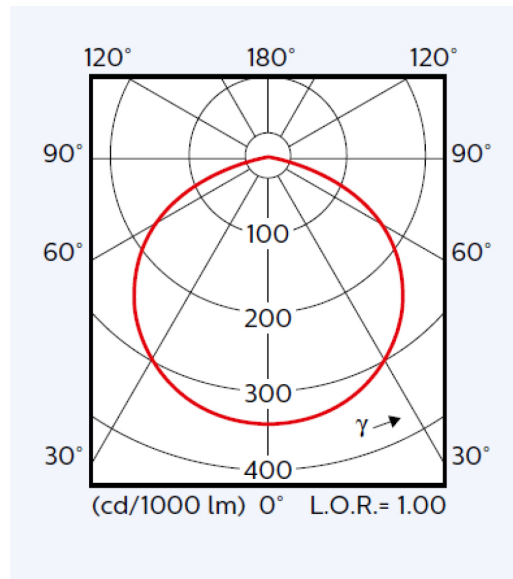


| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 83 | 94 | 93 | 80 | 84 | 94 | 81 | 59 | 59 | 87 | 80 | 76 | 86 | 97 | |

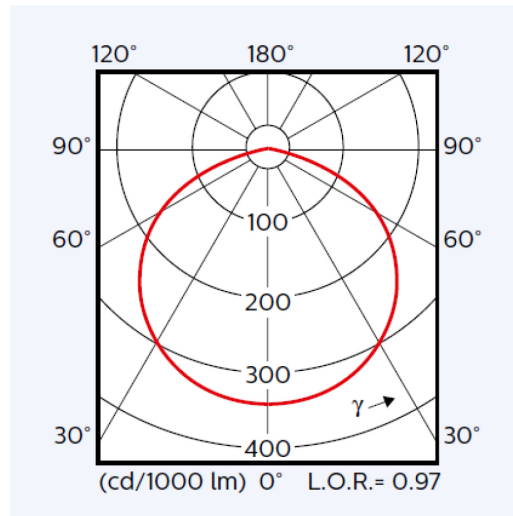
Fortimo SLM 1208 L15 2024 G6

Beam Shape

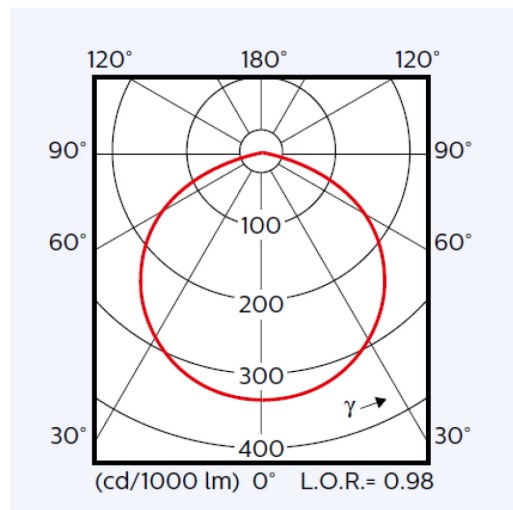
Bare CoB



CoB with a standard/downlight/Zhaga poke-in holder



CoB with a poke-in holder



Fortimo SLM 1208 L15 2024 G6

[Fortimo SLM C 730 1208 L15 2024 G6](#)

[Fortimo SLM C 740 1208 L15 2024 G6](#)

[Fortimo SLM C 750 1208 L15 2024 G6](#)

[Fortimo SLM C 757 1208 L15 2024 G6](#)

[Fortimo SLM C 857 1208 L15 2024 G6](#)

| Parameter | Min | Typ | Max | Unit |
|-------------------|-----|------|------|------|
| Forward Voltage | | 34.0 | 36.5 | V |
| Power Consumption | | 25.5 | 27.4 | W |
| Thermal Power | | 13.7 | | W |

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

[Fortimo SLM C 827 1208 L15 2024 G6](#)

[Fortimo SLM C 830 1208 L15 2024 G6](#)

[Fortimo SLM C 835 1208 L15 2024 G6](#)

[Fortimo SLM C 840 1208 L15 2024 G6](#)

[Fortimo SLM C 850 1208 L15 2024 G6](#)

| Parameter | Min | Typ | Max | Unit |
|-------------------|-----|------|------|------|
| Forward Voltage | | 34.0 | 36.5 | V |
| Power Consumption | | 25.5 | 27.4 | W |
| Thermal Power | | 14.4 | | W |

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

[Fortimo SLM C 927 1208 L15 2024 G6](#)

[Fortimo SLM C 930 1208 L15 2024 G6](#)

| Parameter | Min | Typ | Max | Unit |
|-------------------|-----|------|------|------|
| Forward Voltage | | 34.0 | 36.5 | V |
| Power Consumption | | 25.5 | 27.4 | W |
| Thermal Power | | 15.5 | | W |

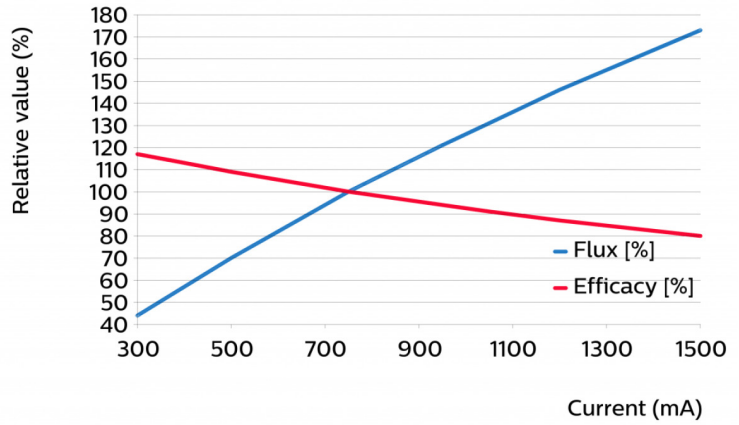
Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%.

Fortimo SLM 1208 L15 2024 G6

Tuning Information

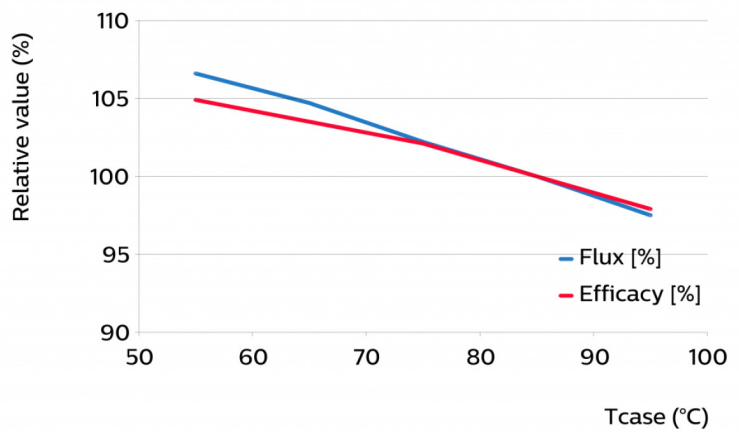
Flux and efficacy vs. current (at Tc nominal)

| I [mA] | Flux [%] | Efficacy [%] |
|--------|----------|--------------|
| 300 | 44 | 117 |
| 400 | 57 | 113 |
| 500 | 70 | 109 |
| 750 | 100 | 100 |
| 950 | 121 | 94 |
| 1050 | 131 | 91 |
| 1200 | 146 | 87 |
| 1500 | 173 | 80 |



Flux and efficacy vs. temperature at Tc (at I nominal)

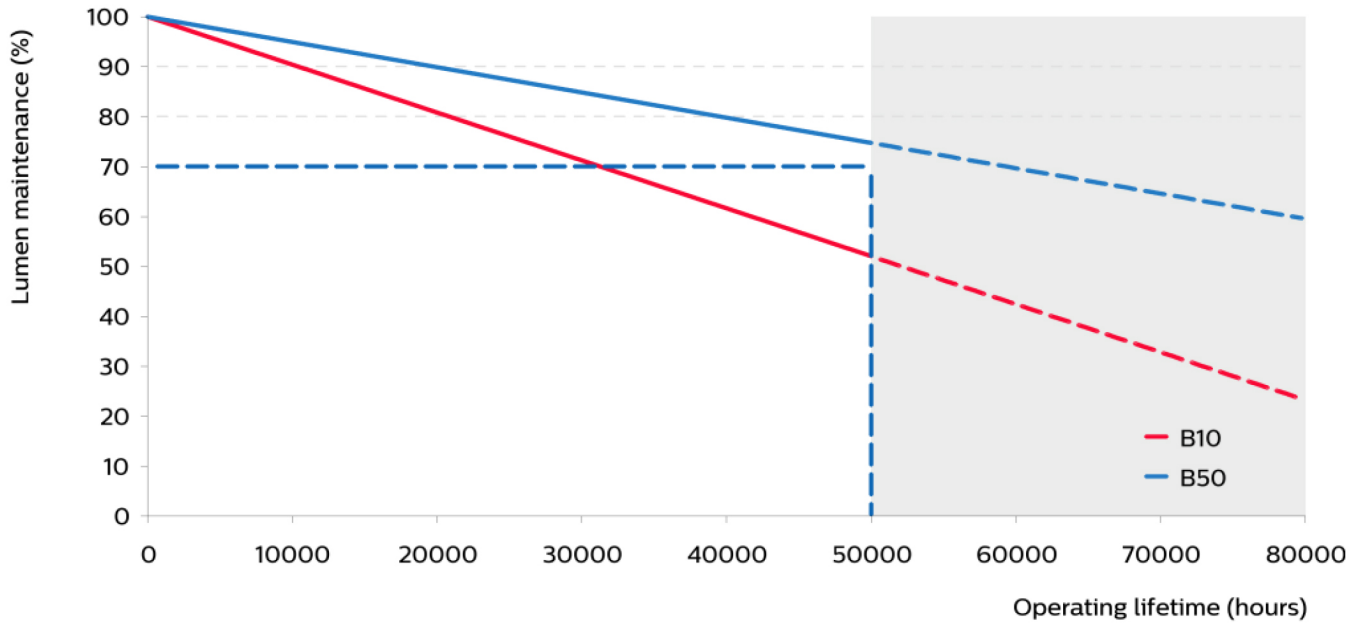
| Tcase [°C] | Flux [%] | Efficacy [%] |
|------------|----------|--------------|
| 55 | 107 | 105 |
| 65 | 105 | 104 |
| 75 | 102 | 102 |
| 85 | 100 | 100 |
| 95 | 98 | 98 |



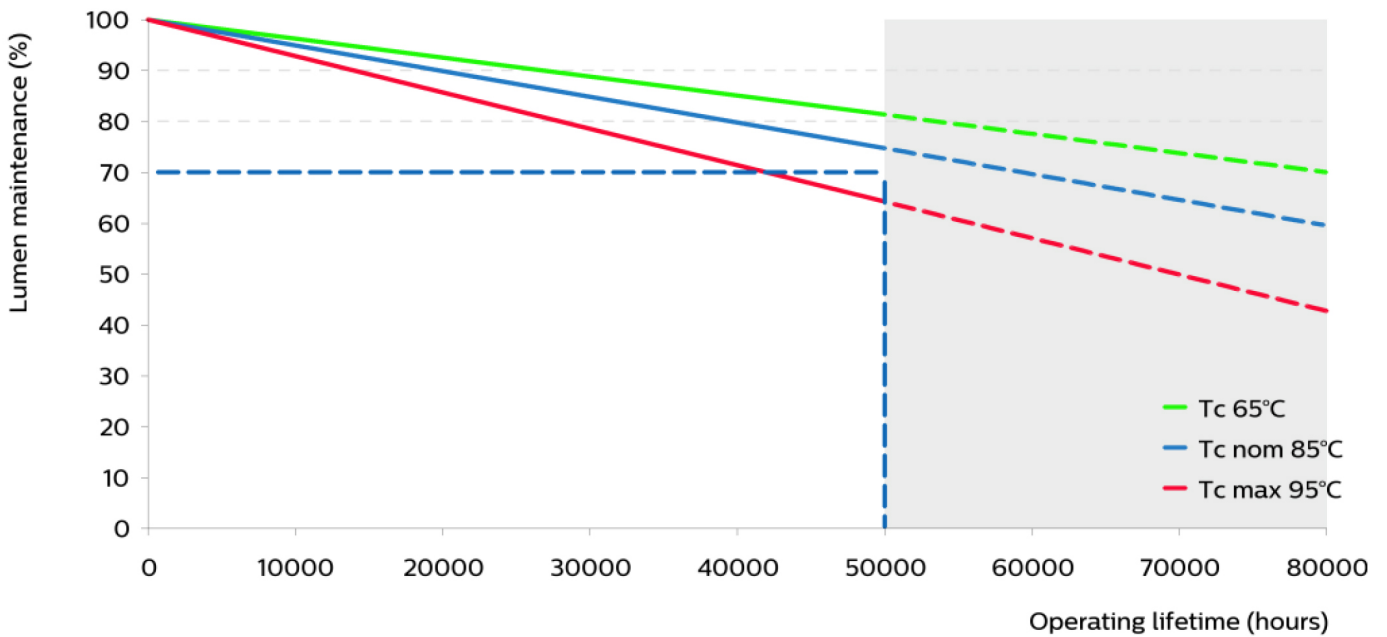
Fortimo SLM 1208 L15 2024 G6

Lumen Maintenance

Lumen maintenance at I-life and Tc-life conditions



Lumen maintenance for B50 at current I-life conditions

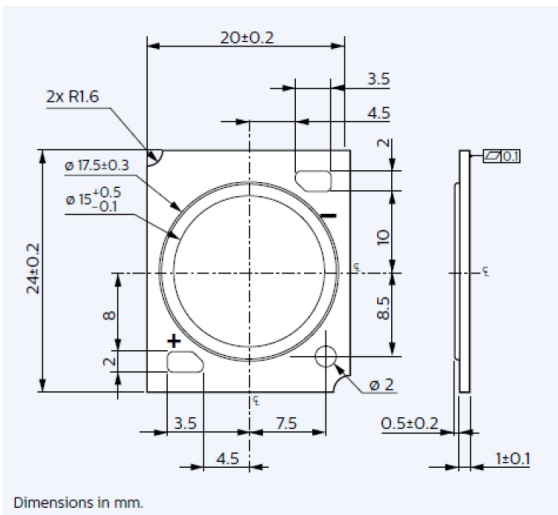


Fortimo SLM 1208 L15 2024 G6

Mechanical Characteristics

- [Fortimo SLM C 730 1208 L15 2024 G6](#)
- [Fortimo SLM C 740 1208 L15 2024 G6](#)
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- [Fortimo SLM C 930 1208 L15 2024 G6](#)

| Parameter | Min | Typ | Max | Unit |
|----------------------|------|-----|------|------|
| Length | 23.8 | 24 | 34.2 | 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 |



Absolute Ratings

| Parameter | Min | Typ | 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 | | | 55.5 | W |
| ESD Human Body Model (HBM) Class 3A JESD22-A114-E 8 kV | | | 8 | kV |
| ESD Machine Model (MM) Class B JESD22-A115-B | | | 400 | kV |
| Ambient Temperature | -20 | | 40 | °C |
| Storage Temperature | -40 | | 80 | °C |

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Application Information

Environmental

RoHS/REACH

Certificates and standards

IEC 62031:2008 (First Edition) + A1:2012 + A2:2014

EN 62031:2008 + A1:2013 + A2:2015 without differences

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

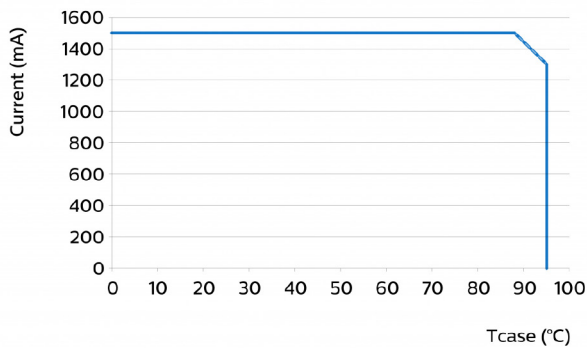
Relevant clauses of EN 62471:2008 (With IEC/TR 62471-2: 2009 and IEC/TR 62778: 2014)

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

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

| Application | |
|------------------------|--------------------------|
| IP Rating | No IP-rating |
| Overheating Protection | No |
| Luminaire Class | IEC Class I and Class II |
| Dimming | Yes |

Warranty Window



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