

# PHILIPS

## Fortimo

### LED

Fortimo SLM C 1208 L15  
2024 G7 HE



## Datasheet

### Fortimo SLM C 1208 L15 2024 G7 HE

Fortimo LED SLM Gen 7 CRI90 HE continues to focus on the combination of Quality of Light and efficacy. The new HE range has a significant improvement on CRI90 efficacy and close the efficacy gap to < 5% vs. CRI80 range. In the meantime, the new HE range will be delivered with 2 SDCM color consistency. The superior efficacy and color consistency of Fortimo SLM G7 HE will further unlock the extraordinary potential of light, facilitate the innovation and inspire the next generation luminaire design at our OEM customers. 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 application
- 10%-12% efficacy improvement vs. current G7 CRI90 range.
- Excellent color consistency management (2 SDCM)
- System proposition (Module + Driver + Holder)
- Flexibility to optimize luminaire performance (high efficacy or high lm output)
- 50,000 hours lifetime

April 2022



## Ordering data

Commercial product name	EOC	12NC	EPREL registration #	Box quantity
Fortimo SLM C 935 1208 L15 2024 G7 HE	8719514 345966 00	9290 028 73506	791939	20
Fortimo SLM C 940 1208 L15 2024 G7 HE	8719514 346116 00	9290 028 74006	791941	20
Fortimo SLM C 927 1208 L15 2024 G7 HE	8719514 292154 00	9290 028 54306	791923	20
Fortimo SLM C 930 1208 L15 2024 G7 HE	8719514 280489 00	9290 028 34906	791887	20
Fortimo SLM C 930 PW 1208 L15 2024 G7 HE	8719514 280281 00	9290 028 33706	791886	20
Fortimo SLM C 935 PW 1208 L15 2024 G7 HE	8719514 292178 00	9290 028 54406	791935	20
Fortimo SLM C 940 PW 1208 L15 2024 G7 HE	8719514 292192 00	9290 028 54506	791927	20
Fortimo SLM C 930 PC 1208 L15 2024 G7 HE	8719514 280380 00	9290 028 34306	791920	20

## Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 1208 L15 2024 G7 HE	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	105	°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

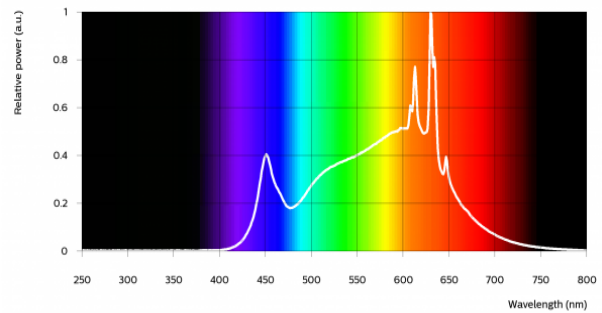
## Optical characteristics - table per color (CCT)

### Fortimo SLM C 935 1208 L15 2024 G7 HE


Parameter	Min	Typ	Max	Unit
Luminous flux	3652	3844	4229	lm
Efficacy		151		lm/W
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.407, 0.392)		-
Color consistency			2	SDCM
CRI	90	92		
R9	50			
Photometric code		935/259		
Photobiological safety			RG1 unlimited	

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

Operation point	935	lm	lm/W
80% I-nom 600mA	Tc 25 °C	3467	169
	Tc-nom 85 °C	3145	156
	Tc 95 °C	3083	154
I-nom 750mA	Tc 25 °C	4267	163
	Tc-nom 85 °C	3844	151
	Tc 95 °C	3764	148
I-max 1500mA	Tc 25 °C	7872	140
	Tc-nom 85 °C	6960	126
	Tc 95 °C	6785	123

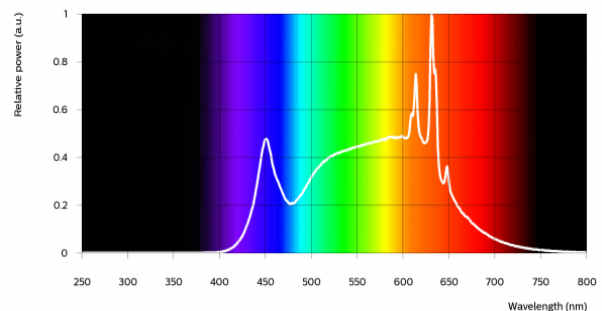


### Fortimo SLM C 940 1208 L15 2024 G7 HE


Parameter	Min	Typ	Max	Unit
Luminous flux	3728	3924	4316	lm
Efficacy		154		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.382, 0.380)		-
Color consistency			2	SDCM
CRI	90	92		
R9	50			
Photometric code		940/259		
Photobiological safety			RG1 unlimited	

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

Operation point	940	lm	lm/W
80% I-nom 600mA	Tc 25 °C	3565	174
	Tc-nom 85 °C	3212	160
	Tc 95 °C	3152	158
I-nom 750mA	Tc 25 °C	4384	168
	Tc-nom 85 °C	3924	154
	Tc 95 °C	3846	151
I-max 1500mA	Tc 25 °C	8084	143
	Tc-nom 85 °C	7118	128
	Tc 95 °C	6953	126

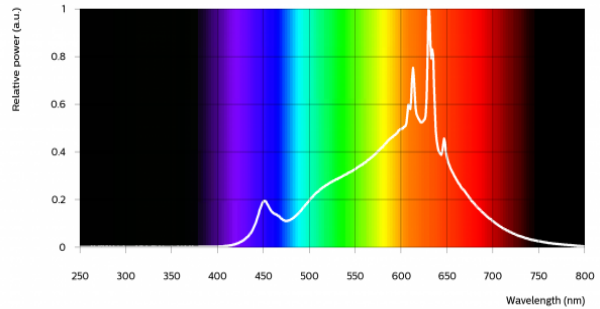


Fortimo SLM C 927 1208 L15 2024 G7 HE


Parameter	Min	Typ	Max	Unit
Luminous flux	3332	3507	3858	lm
Efficacy		138		lm/W
Correlated color temperature (CCT)		2700		K
Color coordinates (CIEx, CIEy)		(0.458, 0.410)		-
Color consistency			2	SDCM
CRI	90	92		
R9	50			
Photometric code		927/259		
Photobiological safety			RG1 unlimited	

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

Operation point	927	lm	lm/W
80% I-nom 600mA	Tc 25 °C	3150	153
	Tc-nom 85 °C	2868	143
	Tc 95 °C	2809	140
I-nom 750mA	Tc 25 °C	3878	148
	Tc-nom 85 °C	3507	138
	Tc 95 °C	3430	135
I-max 1500mA	Tc 25 °C	7157	127
	Tc-nom 85 °C	6336	114
	Tc 95 °C	6166	112

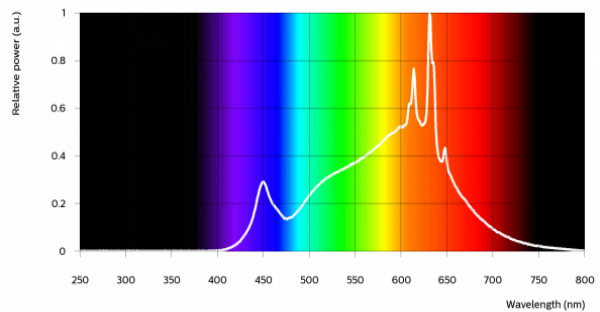


Fortimo SLM C 930 1208 L15 2024 G7 HE


Parameter	Min	Typ	Max	Unit
Luminous flux	3478	3661	4027	lm
Efficacy		144		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.434, 0.403)		-
Color consistency			2	SDCM
CRI	90	92		
R9	50			
Photometric code		930/259		
Photobiological safety			RG1 unlimited	

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

Operation point	930	lm	lm/W
80% I-nom 600mA	Tc 25 °C	3288	160
	Tc-nom 85 °C	2991	149
	Tc 95 °C	2930	147
I-nom 750mA	Tc 25 °C	4050	155
	Tc-nom 85 °C	3661	144
	Tc 95 °C	3581	141
I-max 1500mA	Tc 25 °C	7492	132
	Tc-nom 85 °C	6631	120
	Tc 95 °C	6454	117

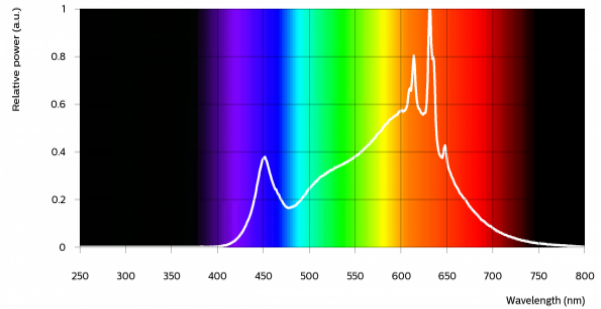


Fortimo SLM C 930 PW 1208 L15 2024 G7 HE


Parameter	Min	Typ	Max	Unit
Luminous flux	3530	3716	4087	lm
Efficacy		146		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.422, 0.386)		-
Color consistency			2	SDCM
CRI	90	92		
R9	50			
Photometric code				
Photobiological safety				RG1 unlimited

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

Operation point	930	lm	lm/W
80% I-nom 600mA	Tc 25 °C	3382	165
	Tc-nom 85 °C	3041	152
	Tc 95 °C	2978	149
I-nom 750mA	Tc 25 °C	4157	159
	Tc-nom 85 °C	3716	146
	Tc 95 °C	3635	143
I-max 1500mA	Tc 25 °C	7625	135
	Tc-nom 85 °C	6699	120
	Tc 95 °C	6527	118

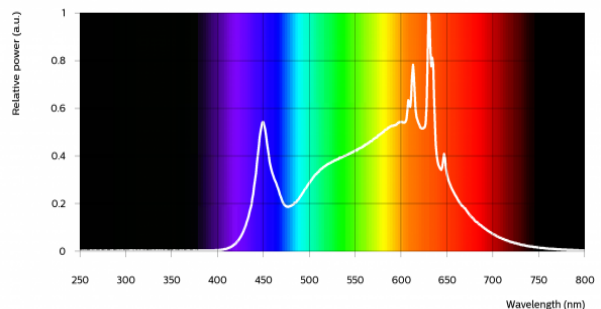


Fortimo SLM C 935 PW 1208 L15 2024 G7 HE


Parameter	Min	Typ	Max	Unit
Luminous flux	3680	3874	4262	lm
Efficacy		152		lm/W
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.398, 0.376)		-
Color consistency			2	SDCM
CRI	90	92		
R9	50			
Photometric code				
Photobiological safety				RG1 unlimited

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

Operation point	935	lm	lm/W
80% I-nom 600mA	Tc 25 °C	3522	173
	Tc-nom 85 °C	3181	159
	Tc 95 °C	3119	156
I-nom 750mA	Tc 25 °C	4320	166
	Tc-nom 85 °C	3874	152
	Tc 95 °C	3792	149
I-max 1500mA	Tc 25 °C	7871	139
	Tc-nom 85 °C	6920	124
	Tc 95 °C	6745	121

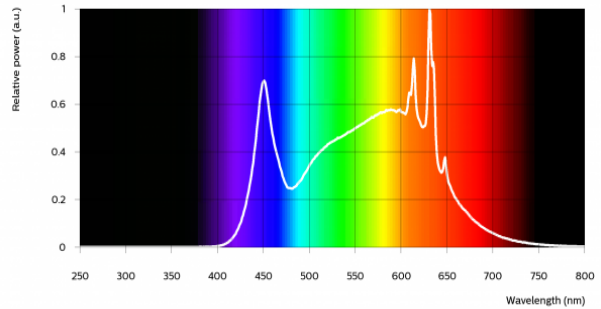


Fortimo SLM C 940 PW 1208 L15 2024 G7 HE


Parameter	Min	Typ	Max	Unit
Luminous flux	3738	3935	4328	lm
Efficacy		154		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.374, 0.364)		-
Color consistency			2	SDCM
CRI	90	92		
R9	50			
Photometric code		940/259		
Photobiological safety			RG1 unlimited	

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

Operation point	940	lm	lm/W
80% I-nom 600mA	Tc 25 °C	3557	173
	Tc-nom 85 °C	3213	160
	Tc 95 °C	3144	157
I-nom 750mA	Tc 25 °C	4381	168
	Tc-nom 85 °C	3935	154
	Tc 95 °C	3846	151
I-max 1500mA	Tc 25 °C	8109	144
	Tc-nom 85 °C	7149	129
	Tc 95 °C	6955	126

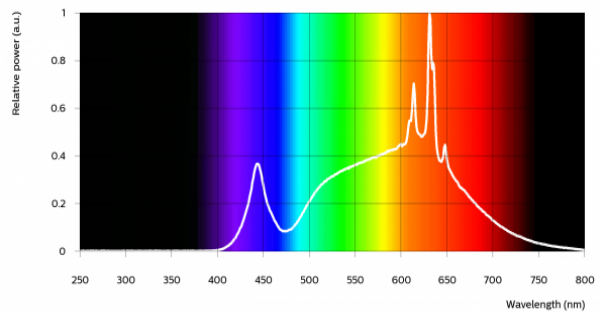


Fortimo SLM C 930 PC 1208 L15 2024 G7 HE

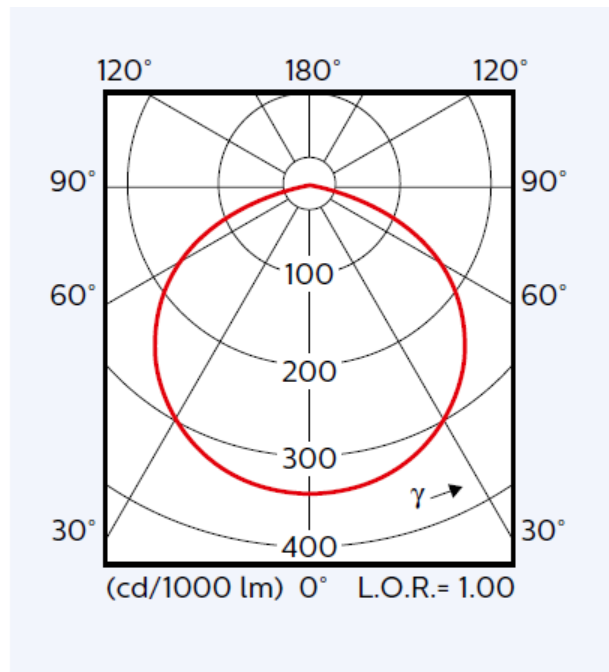
Parameter	Min	Typ	Max	Unit
Luminous flux	3218	3387	3726	lm
Efficacy		133		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.422, 0.386)		-
Color consistency			2	SDCM
CRI	91	93		
R9	70			
Photometric code		930/259		
Photobiological safety			RG1 unlimited	

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

Operation point	930	lm	lm/W
80% I-nom 600mA	Tc 25 °C	3062	149
	Tc-nom 85 °C	2770	138
	Tc 95 °C	2712	135
I-nom 750mA	Tc 25 °C	3764	144
	Tc-nom 85 °C	3387	133
	Tc 95 °C	3312	130
I-max 1500mA	Tc 25 °C	6925	123
	Tc-nom 85 °C	6120	111
	Tc 95 °C	5958	108



## Beam shape



## Electrical characteristics

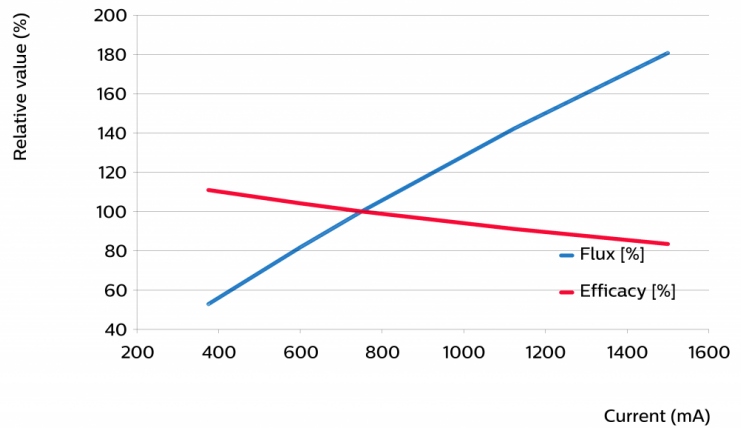
Parameter	Min	Typ	Max	Unit
Forward voltage	31.7	34.0	36.7	V
Power consumption	23.8	25.5	27.5	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

## Tuning information

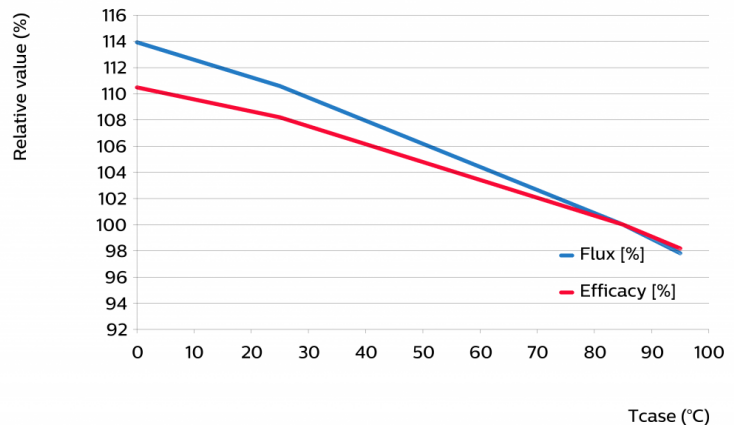
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
1500	181	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	98	98
85	100	100
25	111	108
0	114	110





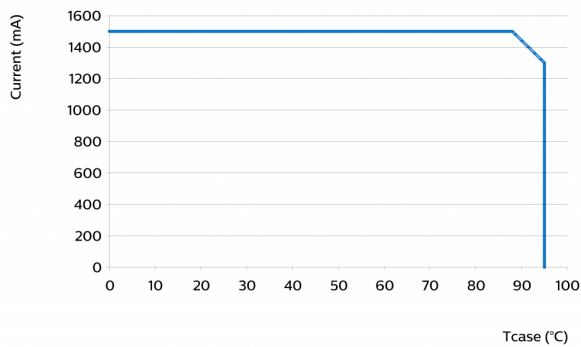
## Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I nom 600 mA	Tc 65°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
	Tc nom 85°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
	Tc 95°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
I nom 750 mA	Tc 65°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
	Tc nom 85°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
	Tc 95°C	>66	>66	>66	>66	>66	>66	>66	63	58
I max 1500 mA	Tc 65°C	>66	>66	>66	62	53	48	29	25	23
	Tc nom 85°C	>66	>66	>66	53	45	41	25	21	19
	Tc 95°C	>66	61	56	45	38	35	21	18	16

## Lifetime

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

## Performance Window





## Application information

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### Certificates and Standards

CE  
ENEC  
ENEC+  
IEC 62031  
IEC/TR 62778  
UL  
UL 8750  
UKCA

### Application

Dimming	Yes
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