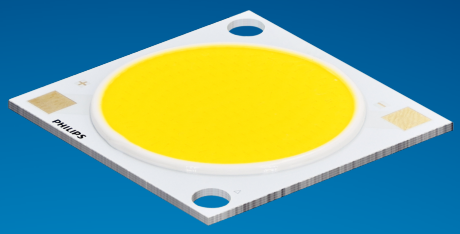
PHILIPS

Fortimo

LED

Fortimo SLM C PA 1211
L22 2828 G8N HE



Datasheet

Refined light recipe for effortless experiences and high-end applications

Fortimo LED SLM G8(N) PA

Introducing the new Premium Ambiance light recipe, which expands our Fortimo SLM G8(N) HE offering by bringing a refined lighting option tailored for premium spaces. Carefully engineered to create a warm, inviting atmosphere while maintaining high focus on the merchandise, it is ideal for applications such as retail, hospitality, residential, and cruise environments where ambiance and comfort are key.

With high-quality light output combined with warmer CCT options, Premium Ambiance supports relaxed, effortless experiences while subtly enhancing the emotional appeal of the space allowing an end user to truly enjoy the illuminated space and merchandise. This light recipe has been specifically designed for settings with luxurious interior elements - such as dark-toned ceilings, wooden shelving, and richly textured décor - bringing depth and sophistication to every detail.

Key features and benefits

- New light recipe in Fortimo SLM G8(N) HE portfolio optimized for luxury interior design (wood, dark ceilings, textured materials, leathers)
- Warm CCT options - 2700K and 3000K to enhance mechandise and emotional appeal
- CRI 80 and 90 versions available
- High efficiency and performance similar to Premium White G8(N) HE
- Excellent color consistency management (2 SDCM)
- System proposition (Module + Driver + Holder)
- Seamless integration into existing COB spotlight designs using industry standard LES sizes and footprints - G8 and G8N

June 2025

Ordering data

Commercial product name	EOC	12NC	EPREL registration #	Box quantity
Fortimo SLM C 827 PA 1211 L22 2828 G8N HE	8721103 115720 00	9290 048 36701	2374920	10
Fortimo SLM C 830 PA 1211 L22 2828 G8N HE	8721103 115751 00	9290 048 36501	2374925	10
Fortimo SLM C 927 PA 1211 L22 2828 G8N HE	8721103 115782 00	9290 048 36301	2374938	10
Fortimo SLM C 930 PA 1211 L22 2828 G8N HE	8721103 115812 00	9290 048 36101	2374890	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 C PA 1211 L22 2828 G8N HE	990	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

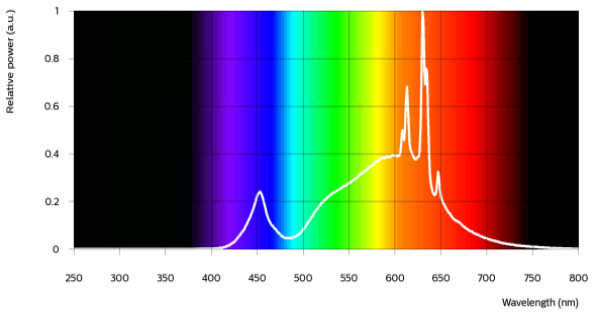
Optical characteristics - table per color (CCT)

Fortimo SLM C 827 PA 1211 L22 2828 G8N HE

Parameter	Min	Typ	Max	Unit
Luminous flux	5320	5600	6160	lm
Efficacy		163		lm/W
Correlated color temperature (CCT)		2700		K
Color coordinates (CIEx, CIEy)		(0.450, 0.395)		-
Color consistency			2	SDCM
CRI	83			
R9	25			
Photometric code		827/259		
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	827	lm	lm/W
80% I-nom 792mA	Tc 25 °C	4763	175
	Tc-nom 65 °C	4547	169
	Tc-max 95 °C	4316	162
I-nom 990mA	Tc 25 °C	5869	169
	Tc-nom 65 °C	5600	163
	Tc-max 95 °C	5312	156
I-max 1980mA	Tc 25 °C	11030	145
	Tc-nom 65 °C	10484	139
	Tc-max 95 °C	9900	132

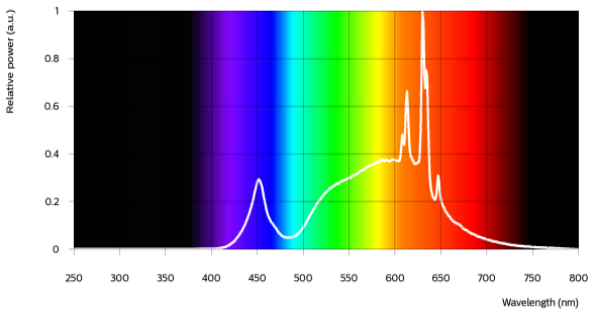


Fortimo SLM C 830 PA 1211 L22 2828 G8N HE

Parameter	Min	Typ	Max	Unit
Luminous flux	5482	5770	6347	lm
Efficacy		168		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.433, 0.395)		-
Color consistency			2	SDCM
CRI	84			
R9	32			
Photometric code		830/259		
Photobiological safety		RG1 unlimited		

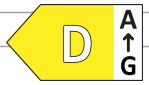
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

Operation point	830	lm	lm/W
80% I-nom 792mA	Tc 25 °C	4907	180
	Tc-nom 65 °C	4685	174
	Tc-max 95 °C	4447	167
I-nom 990mA	Tc 25 °C	6047	174
	Tc-nom 65 °C	5770	168
	Tc-max 95 °C	5474	161
I-max 1980mA	Tc 25 °C	11366	149
	Tc-nom 65 °C	10804	143
	Tc-max 95 °C	10202	136



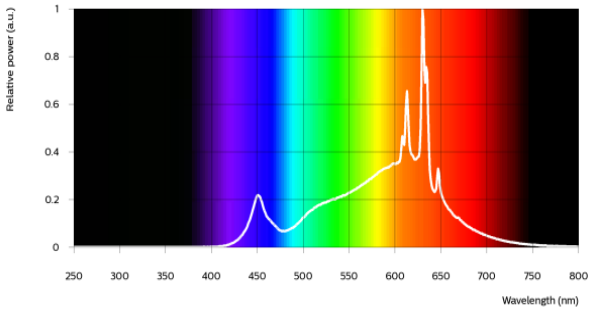
Fortimo SLM C 927 PA 1211 L22 2828 G8N HE

Parameter	Min	Typ	Max	Unit
Luminous flux	5035	5300	5830	lm
Efficacy		154		lm/W
Correlated color temperature (CCT)		2700		K
Color coordinates (CIEx, CIEy)		(0.452, 0.392)		-
Color consistency			2	SDCM
CRI	91			
R9	50			
Photometric code		927/259		
Photobiological safety		RG1 unlimited		



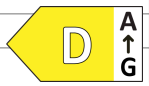
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

Operation point	927	lm	lm/W
80% I-nom 792mA	Tc 25 °C	4508	166
	Tc-nom 65 °C	4303	160
	Tc-max 95 °C	4085	154
I-nom 990mA	Tc 25 °C	5555	160
	Tc-nom 65 °C	5300	154
	Tc-max 95 °C	5028	148
I-max 1980mA	Tc 25 °C	10440	137
	Tc-nom 65 °C	9923	131
	Tc-max 95 °C	9369	125



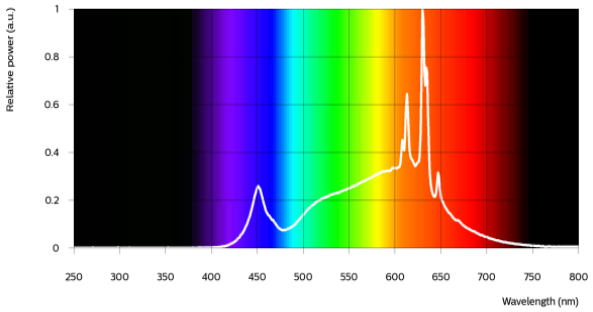
Fortimo SLM C 930 PA 1211 L22 2828 G8N HE

Parameter	Min	Typ	Max	Unit
Luminous flux	5158	5430	5973	lm
Efficacy		158		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.435, 0.391)		-
Color consistency			2	SDCM
CRI	92			
R9	58			
Photometric code		930/259		
Photobiological safety		RG1 unlimited		

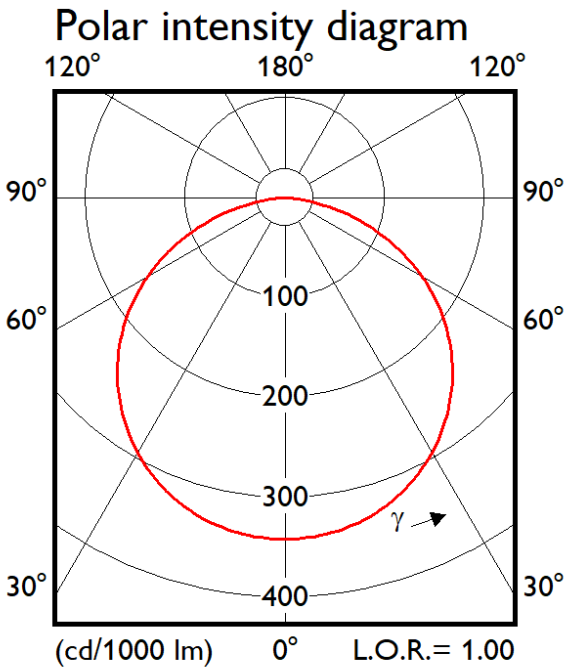


Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

Operation point	930	lm	lm/W
80% I-nom 792mA	Tc 25 °C	4618	170
	Tc-nom 65 °C	4409	164
	Tc-max 95 °C	4185	157
I-nom 990mA	Tc 25 °C	5691	164
	Tc-nom 65 °C	5430	158
	Tc-max 95 °C	5151	152
I-max 1980mA	Tc 25 °C	10696	140
	Tc-nom 65 °C	10167	135
	Tc-max 95 °C	9601	128



Beam shape


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

Electrical characteristics

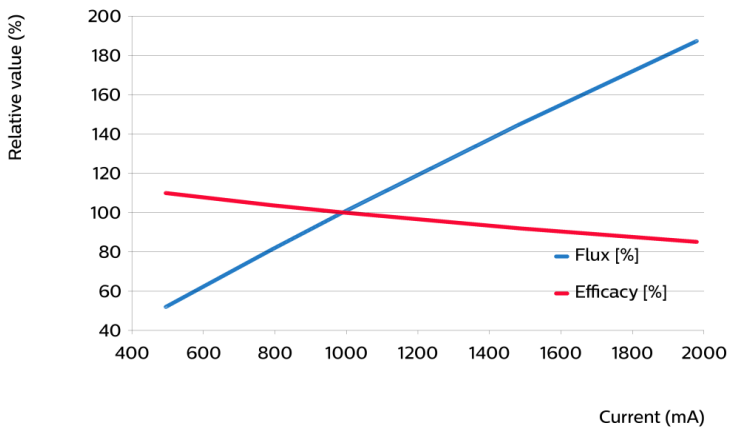
Parameter	Min	Typ	Max	Unit
Forward voltage	32.5	34.7	37.0	V
Power consumption		34.4		W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

Tuning information

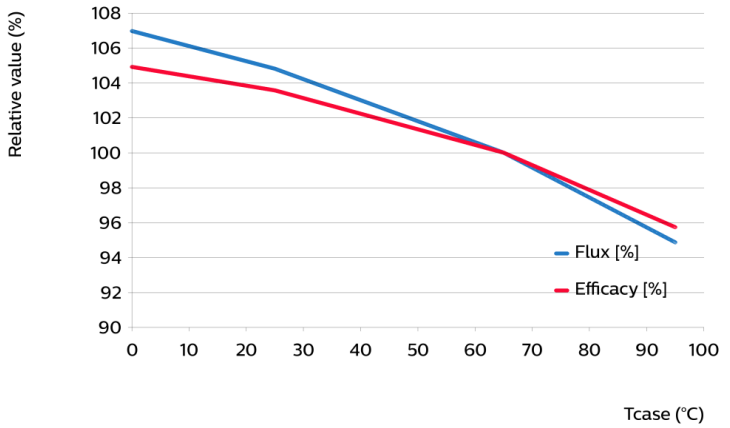
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
1980	187	85
1485	145	92
990	100	100
792	81	104
495	52	110



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

Tc [°C]	Flux [%]	Efficacy [%]
95	95	96
65	100	100
25	105	104
0	107	105



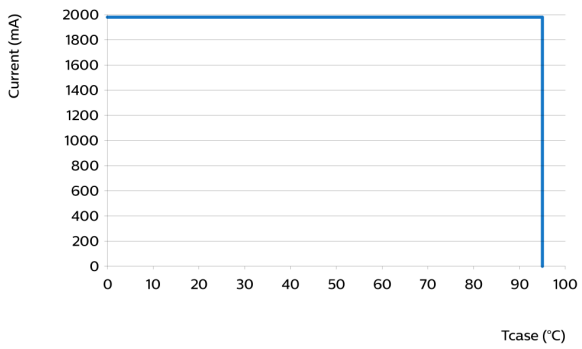
Lumen maintenance

Operation point	Lumen maintenance	L70			L80			L90		
	x 1000 hours	B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 792mA	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 990mA	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	62
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

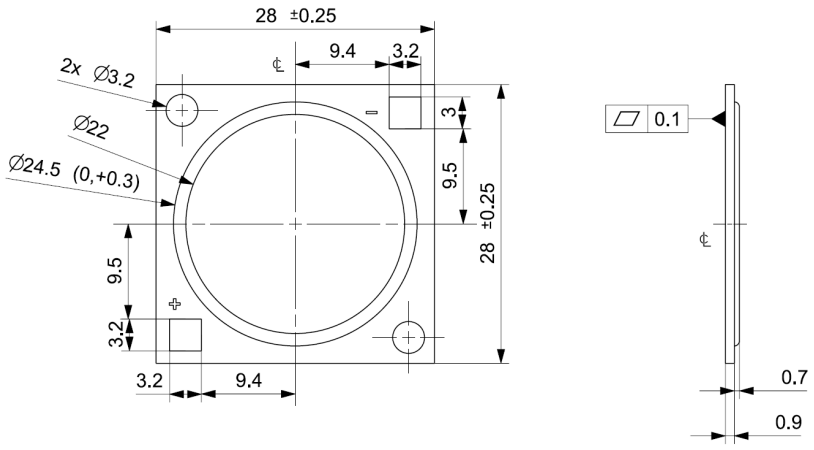
Parameter	Value	Unit
M70F50 nominal	>66000	hours

Performance Window



Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	27.75	28	28.25	mm
Width	27.75	28	28.25	mm
Height Height PCB	0.8	0.9	1	mm
Height Height including dam	1.3	1.6	1.9	mm
Product mass		2.2		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

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