

Spinella

Single and Multiple Module Roadway Fixtures



DATA SHEET



Product information

Introducing Spinella, GE Lighting's single and multiple module roadway fixtures. From residential streets to highways, the Spinella fixture is changing the way you light your roads. Developed and produced in EMEA, GE balances the technical needs of a sophisticated LED system with the functional demands of a reliable outdoor fixture for all weather conditions, while offering a platform for controls and intelligence.

Application areas

- Motorways
- Roads & streets
- Residential areas

Installation and maintenance

Mounting options:

- Post top mounting: pole diameter, 48-60 and 76mm
- Side mounting: arm diameter 48-60mm

Weight: single: 10.5kg; multiple: 20kg

Recommended mounting height:

- Single module Spinella: 4-15m
- Multiple module Spinella: 6-15m

Tool-less entry via latch.

Ambient temperature: -30°C to +50°C

Storage temperature: up to 85°C.

Driver features

Electronic, dimmable.

Single module: from 15W to 124W

Multiple module: from 90W to 230W

Controls system inputs: 0-10V and Dali, AstroDIM, StepDIM, Autonom dimming depending on configuration.

Structures and materials

Housing material: aluminium

Optical cover: flat glass

Colour: RAL7035

All materials used in this product are WEEE and ROHS compatible.

Performance

Single module:

Rated luminous flux: from 1,550 lm to 12,320 lm

Rated luminaire efficacy:

- Up to 119 lm/W at 3000K
- Up to 121 lm/W at 4000K
- Up to 128 lm/W at 5000K

Lumen maintenance code: 9

Rated ambient temperature (tq) related to performance for a luminaire 25°C*

Below 95W: rated median useful life and the associated rated LM factor: L90 (6K) >60,000 hours*

Rated abrupt failure value*: 7.7%**

Above 95W: L85 (6K) >33,000 hours*

Rated abrupt failure value*: 7%**

With PX optics: L85(6K) >32,000 hours*

Rated abrupt failure value*: 6.8%**

Multiple module:

Rated luminous flux: from 7 klm to 26.4 klm

Rated luminaire efficacy:

- Up to 118 lm/W at 3000K
- Up to 121 lm/W at 4000K
- Up to 127 lm/W at 5000K

Photometric code: 730/559, 740/449, 750/449

Rated median useful life and the associated rated LM factor:

L90 (6K) >36,000 hours*

Rated abrupt failure value*: 6.44%**

Projected median useful life and associated rated LM factor:

L90 (6K) >74,000 hours*

*Definitions and tolerances according to IEC 62722-2-1.

**Rated abrupt failure value depends on the configuration type.



Optics

Available photometric distributions:

- Narrow asymmetric – medium (B)
- Asymmetric – short (C),
- Asymmetric forward – very short (D)
- Asymmetric – medium (E)
- Forward asymmetric – medium (F)
- Narrow asymmetric – short (N)
- Narrow asymmetric w/ backlight – short (P)
- Narrow asymmetric – medium (R)
- Narrow asymmetric – medium (S)
- Asymmetric – short (T)
- Asymmetric – medium (U)

Rated colour rendering index:>70

Available colour temperatures:3000K, 4000K, 5000K

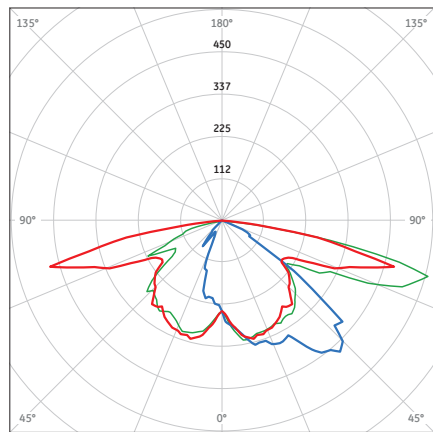
Rated S/P rating: 3000K: 1.24, 4000K: 1.47, 5000K: 1.71

ULOR: 0

Rated initial chromaticity co-ordinate values:

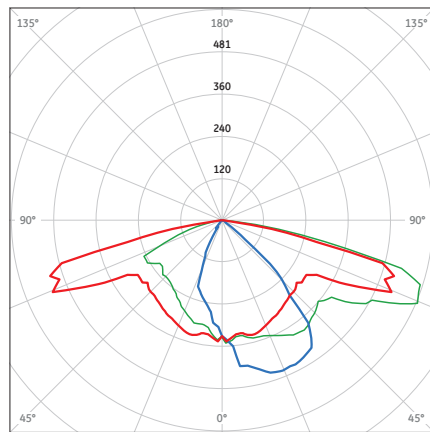
- CIE(x=0.43, y=0.403) 5SDCM
- CIE(x= 0.38, y= 0.38) 5SDCM

Typical photometrical features



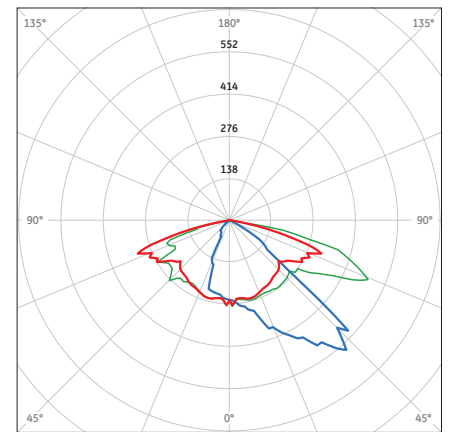
C270
cd/klm
C0 {-----} C180
C90
C0-C180 C90-C270
C MAX [cd]

Asymmetric – medium (U)



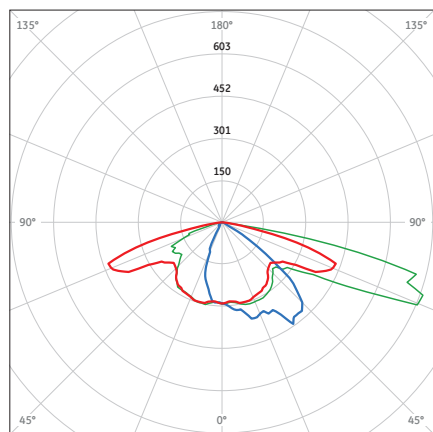
C270
cd/klm
C0 {-----} C180
C90
C0-C180 C90-C270
C MAX [cd]

Narrow asymmetric – medium (B)



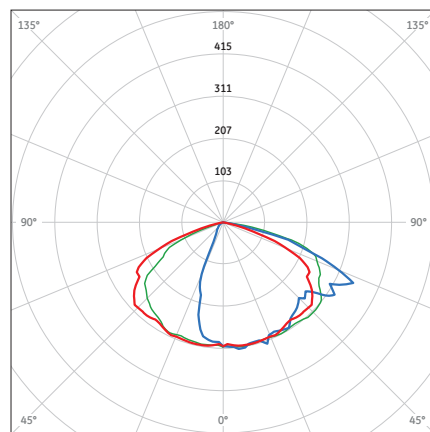
C270
cd/klm
C0 {-----} C180
C90
C0-C180 C90-C270
C MAX [cd]

Asymmetric – short (C),



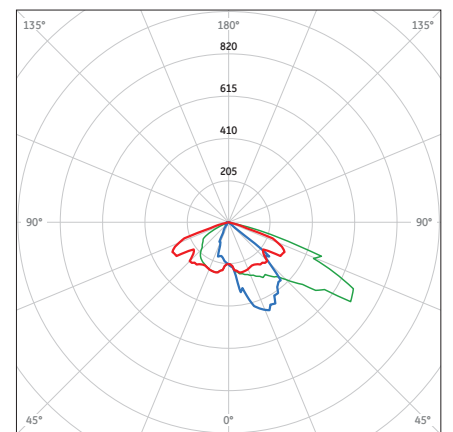
C270
cd/klm
C0 {-----} C180
C90
C0-C180 C90-C270
C MAX [cd]

Asymmetric – medium (E)



C270
cd/klm
C0 {-----} C180
C90
C0-C180 C90-C270
C MAX [cd]

Forward asymmetric – medium (F)



C270
cd/klm
C0 {-----} C180
C90
C0-C180 C90-C270
C MAX [cd]

Narrow asymmetric – short (N)

Electrical

Input voltage and frequency:220-240V, 50/60Hz Class I: standard

Class II: on request

Surge protection: min 4kV/2kA

Rated input power: 15W to 230W

Power factor:>0.9

Regulatory and standards

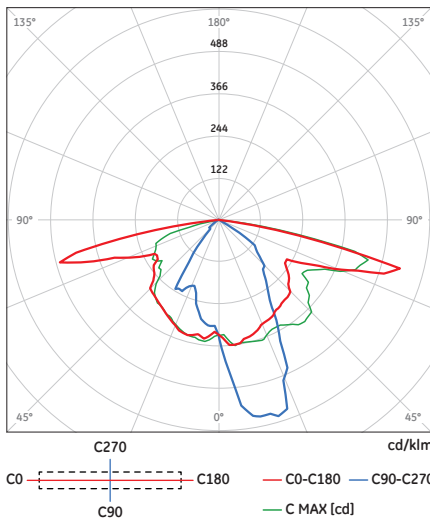
Regulatory marks: CE, ENEC18

Regulations: Directive 2014/30/EU, 2014/35/EU, 2009/125/EC, 1194/2012/EU, 2011/65/EC

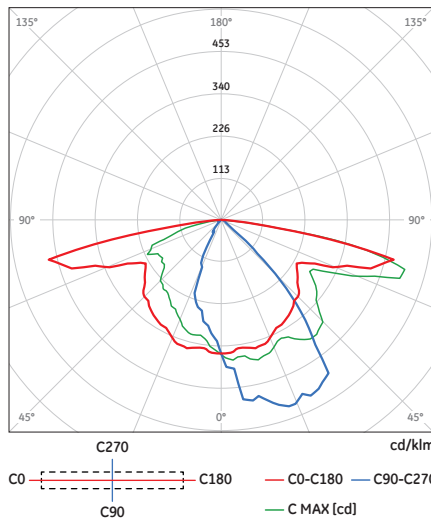
Harmonized standards: EN 60598, EN 62471, EN 55015, EN 61000, EN 62493, EN 61547, EN62031

Other options available

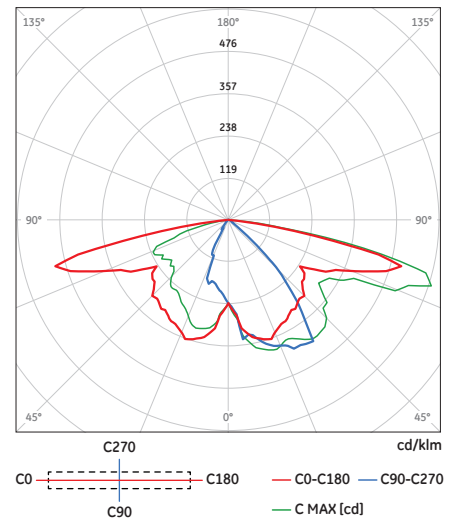
Additional surge protection is available. Other RAL colours available on request.



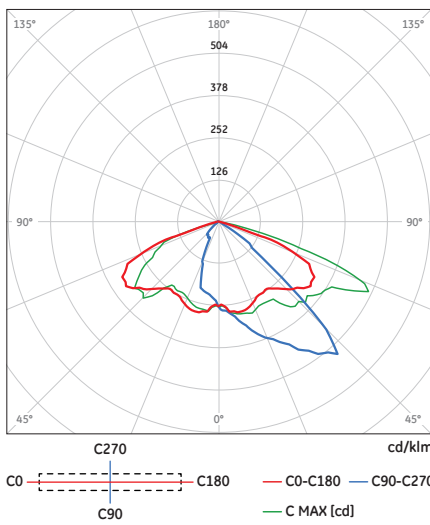
Narrow asymmetric w/ backlight - short (P)



Narrow asymmetric - medium (R)



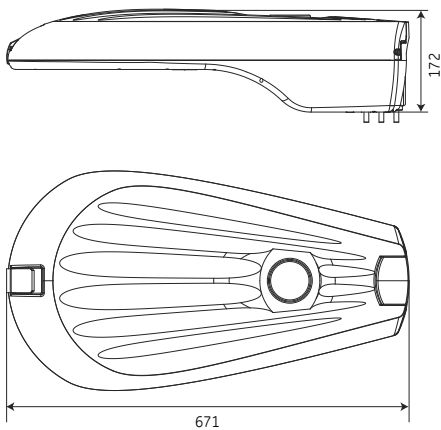
Narrow asymmetric - medium (S)



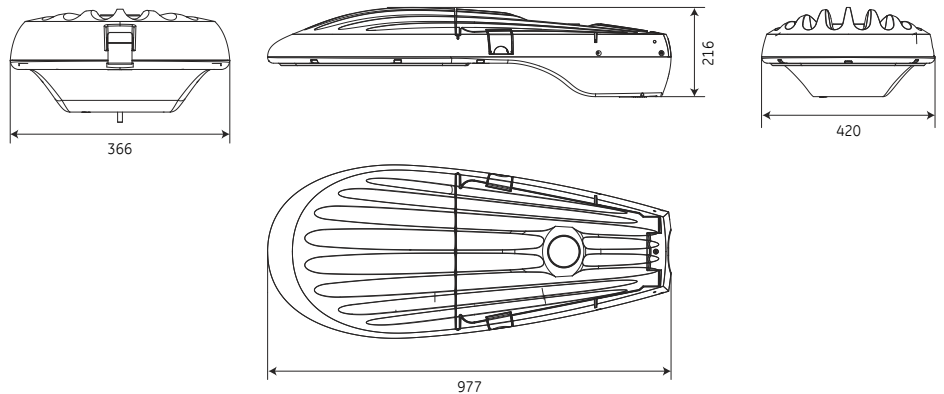
Asymmetric - short (T)

Dimensions [mm]

Single module



Multiple module



Order logic

Single module Spinella LED

Spinella LED	Gen.	Front glass	Optics	Power [W]	CCT [K]	Control	Accessories	IEC protection classes	Precabbling	Mounting	Color
SP L	2	F - Flat glass	B - B C - C E - E F - F N - N R - R S - S T - T U - U P - P****	15 19 28 44 45 47 52 53 55 67 69 90 104 118 124	30- 3000 40- 4000 50- 5000	N - No control A - 0-10 V D - Dali* S - Power reduction* R - Astronomic clock Y - DynaDIM	ST - Standard type M3 - Minicell 35lux* M5 - Minicell 55lux* M7 - Minicell 70lux* NS - SELC NEMA Socket* S6 - S6000 Mayflower Socket** SP - 10kV surge voltage protection F - Fuse version*	C1 C2	N - Without pre-cabbling P - Pre-cabbling	P76 - Post top, 76mm S60 - Side mounted, 55-76mm P50 - Post top, 42-50mm S50 - Side mounted, 42-50mm	R7035 XXXXX***

*MINICELL and NEMA socket are not available together with DALI, StepDIM and Analogue 0-10V dimming control and only available in Class 1 version

**S6000 Mayflower socket is not available together with no control option

***R7035 is a standard color, for other color please use 5 characters

****PX Optics is available with 15...105W performance range

Multiple module Spinella LED

Spinella LED	Gen.	Front glass	Optics	Power [W]	CCT [K]	Control	Accessories	IEC protection classes	Precabbling	Mounting	Color
SP H	2	F - Flat glass	B - B C - C E - E F - F N - N P - P T - T U - U	90 92 108 109 128 129**** 131 154 156**** 157 190 230	30- 3000 40- 4000 50- 5000	N - No control A - 0-10V D - Dali Y - DynaDIM	ST - Standard type M3 - Minicell 35lux* M5 - Minicell 55lux* M7 - Minicell 70lux* NS - SELC NEMA Socket* S6 - S6000 Mayflower Socket** SP - up to 10kV surge voltage protection F - Fuse version LS - Lightgrid Socket	C1 C2	N - Without pre-cabbling P - Pre-cabbling	P76 - Post top, 76mm P60 - Post top, 48-60mm S60 - Side mounted, 48-60mm	R7035 XXXXX***

*Minicell and NEMA socket are not available together with DALI, StepDIM and Analogue 0-10V dimming control and only available in Class 1 version.

**S6000 Mayflower socket is not available together with no control option.

***R7035 is a standard colour, other colours available on request.

****Economic version: 2 reflector with 1 driver option.