

Saga

LED



Ensto Saga is an outdoor luminaire, in which high quality light technical solution and design meet. Symmetric and asymmetric light distribution enables energy efficient lighting solution according to the specific needs of the project. Due to the innovative reflector solution, modern control technology and luminous efficacy Saga is an excellent choice for various surroundings.

Optics

Ensto luminaires include variable possibilities for optical solutions to choose from. Symmetric, wide and many others, our product families have several options for light distribution and -output to fit your project and demand.

DALI

DALI drivers enable luminaires to be connected to DALI based control systems and Smart Buildings. Compared to a fixed output installation, the dimming and individual control capability provided by DALI enables considerable energy savings and control, depending on luminaire specifications.

BaseDim

Ensto BaseDim -solution makes energy saving easy without compromising safety or area lighting. BaseDim drops light output 50% during 8 hours in dark time. It's automatic and simple, but gives you benefits in energy saving.

SmartDim

Ensto SmartDim is a programmable dimming solution which gives you optimized energy saving and light output when and where it's needed. You can choose maximum of 5-steps and levels during the dark hours.

Dimming

Ensto can provide many dimming possibilities for luminaires. 1-10V, Switch Dim, DALI and base light are just few examples of possibilities to change the light output to fit your premises.

"Finnish design with top of the line optical solution."





Black

Structure

- › Hat: powder-coated aluminium
- › Base: powder-coated aluminium
- › Colours: pearl grey, graphite grey (Akzo900) and black (RAL 9005)
- › Diffuser: UV-stabilized clear PC
- › Saga 4000 K selection:
 - connected load 28W, luminaire luminous flux 3000 lm
 - connected load 42W, luminaire luminous flux 4500 lm
- › Saga 3000 K selection:
 - connected load 28W, luminaire luminous flux 2950 lm
 - connected load 42W, luminaire luminous flux 4430 lm
- › Round symmetric and streetlight optics
Ra > 80, power factor 0,95
Ambient temperature -40 °C - +35 °C
- › LED module lifespan $T_a=25\text{ °C}$:
100 000 h (L100)
- › LED driver lifetime $T_a=25\text{ °C}$:
100 000 h (max. 10 % failure rate)
- › MacAdam 3
- › Overvoltage protection 6/8kV

Mounting

- › On \varnothing 60 mm column or on stepped column \varnothing 60 mm
- › Saga poles space for coupling
- › Connection lead 4,5 m VSKN 3x1,5 mm² included
- › Recommended mounting height 3-5 m

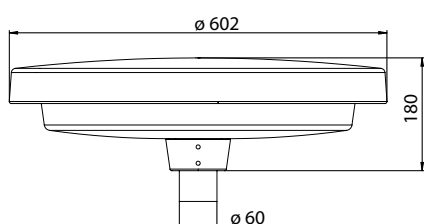
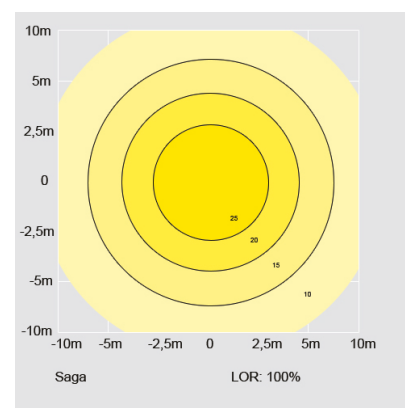
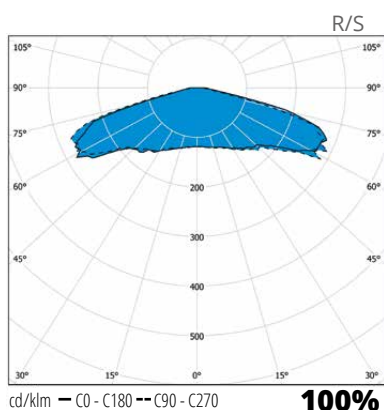
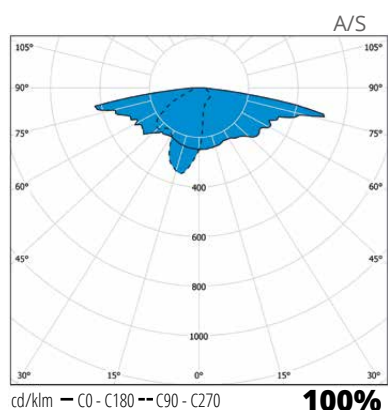
Made to order

- › 1-10V
- › DALI
- › Zhaga D4i
- › BaseDim (BD) - nighttime dimming, onestep
- › SmartDim - nighttime dimming, multistep
- › AmpDim
- › Lineswitch

| E Number | Type | Product name | Base | Colour | Kg | Additional information |
|---|-----------|--------------------------------|------|---------------|------|------------------------|
| Saga 4000 K - round symmetric optics 3000 lm | | | | | | |
| 45 031 46 | SA30GHR | SA30GHR 28W/840 PC GH R/S | LED | graphite grey | 10,0 | |
| 45 031 84 | SA30GHRED | SA30GHRED 28W/840 PC GH R/S DA | LED | graphite grey | 10,0 | DALI (ED) |
| 45 031 57 | SA30HHR | SA30HHR 28W/840 PC HH R/S | LED | pearl grey | 10,0 | |
| 45 031 86 | SA30HHRED | SA30HHRED 28W/840 PC HH R/S DA | LED | pearl grey | 10,0 | DALI (ED) |
| 45 031 61 | SA30MR | SA30MR 28W/840 PC M R/S | LED | black | 10,0 | |
| 45 031 88 | SA30MRED | SA30MRED 28W/840 PC M R/S DA | LED | black | 10,0 | DALI (ED) |
| Saga 4000 K - streetlight optics 3000 lm | | | | | | |
| 45 031 45 | SA30GHA | SA30GHA 28W/840 PC GH A/S | LED | graphite grey | 10,0 | |
| 45 031 83 | SA30GHAED | SA30GHAED 28W/840 PC GH A/S DA | LED | graphite grey | 10,0 | DALI (ED) |
| 45 031 47 | SA30HHA | SA30HHA 28W/840 PC HH A/S | LED | pearl grey | 10,0 | |
| 45 031 85 | SA30HHAED | SA30HHAED 28W/840 PC HH A/S DA | LED | pearl grey | 10,0 | DALI (ED) |
| 45 031 59 | SA30MA | SA30MA 28W/840 PC M A/S | LED | black | 10,0 | |
| 45 031 87 | SA30MAED | SA30MAED 28W/840 PC M A/S DA | LED | black | 10,0 | DALI (ED) |
| Saga 4000 K - round symmetric optics 4500 lm | | | | | | |
| 45 031 65 | SA45GHR | SA45GHR 42W/840 PC GH R/S | LED | graphite grey | 10,0 | |
| 45 031 90 | SA45GHRED | SA45GHRED 42W/840 PC GH R/S DA | LED | graphite grey | 10,0 | DALI (ED) |
| 45 031 80 | SA45HHR | SA45HHR 42W/840 PC HH R/S | LED | pearl grey | 10,0 | |
| 45 031 92 | SA45HHRED | SA45HHRED 42W/840 PC HH R/S DA | LED | pearl grey | 10,0 | DALI (ED) |
| 45 031 82 | SA45MR | SA45MR 42W/840 PC M R/S | LED | black | 10,0 | |
| 45 031 94 | SA45MRED | SA45MRED 42W/840 PC M R/S DA | LED | black | 10,0 | DALI (ED) |
| Saga 4000 K - streetlight optics 4500 lm | | | | | | |
| 45 031 63 | SA45GHA | SA45GHA 42W/840 PC GH A/S | LED | graphite grey | 10,0 | |
| 45 031 89 | SA45GHAED | SA45GHAED 42W/840 PC GH A/S DA | LED | graphite grey | 10,0 | DALI (ED) |
| 45 031 79 | SA45HHA | SA45HHA 42W/840 PC HH A/S | LED | pearl grey | 10,0 | |
| 45 031 91 | SA45HHAED | SA45HHAED 42W/840 PC HH A/S DA | LED | pearl grey | 10,0 | DALI (ED) |
| 45 031 81 | SA45MA | SA45MA 42W/840 PC M A/S | LED | black | 10,0 | |
| 45 031 93 | SA45MAED | SA45MAED 42W/840 PC M A/S DA | LED | black | 10,0 | DALI (ED) |



| E Number | Type | Product name | Base | Colour | Kg | Additional information |
|---|--------------|--------------------------------|------|---------------|------|------------------------|
| Saga 3000 K - round symmetric optics 2950 lm | | | | | | |
| 45 033 07 | SA30GHR/3K | SA30GHR 28W/830 PC GH R/S | LED | graphite grey | 10,0 | |
| 45 033 34 | SA30GHRED/3K | SA30GHRED 28W/830 PC GH R/S DA | LED | graphite grey | 10,0 | DALI (ED) |
| 45 033 10 | SA30HHR/3K | SA30HHR 28W/830 PC HH R/S | LED | pearl grey | 10,0 | |
| 45 033 39 | SA30HHRED/3K | SA30HHRED 28W/830 PC HH R/S DA | LED | pearl grey | 10,0 | DALI (ED) |
| 45 033 13 | SA30MR/3K | SA30MR 28W/830 PC M R/S | LED | black | 10,0 | |
| 45 033 44 | SA30MRED/3K | SA30MRED 28W/830 PC M R/S DA | LED | black | 10,0 | DALI (ED) |
| Saga 3000 K - streetlight optics 2950 lm | | | | | | |
| 45 033 05 | SA30GHA/3K | SA30GHA 28W/830 PC GH A/S | LED | graphite grey | 10,0 | |
| 45 033 32 | SA30GHAED/3K | SA30GHAED 28W/830 PC GH A/S DA | LED | graphite grey | 10,0 | DALI (ED) |
| 45 033 08 | SA30HHA/3K | SA30HHA 28W/830 PC HH A/S | LED | pearl grey | 10,0 | |
| 45 033 35 | SA30HHAED/3K | SA30HHAED 28W/830 PC HH A/S DA | LED | pearl grey | 10,0 | DALI (ED) |
| 45 033 11 | SA30MA/3K | SA30MA 28W/830 PC M A/S | LED | black | 10,0 | |
| 45 033 43 | SA30MAED/3K | SA30MAED 28W/830 PC M A/S DA | LED | black | 10,0 | DALI (ED) |
| Saga 3000 K - round symmetric optics 4430 lm | | | | | | |
| 45 033 16 | SA45GHR/3K | SA45GHR 42W/830 PC GH R/S | LED | graphite grey | 10,0 | |
| 45 033 46 | SA45GHRED/3K | SA45GHRED 42W/830 PC GH R/S DA | LED | graphite grey | 10,0 | DALI (ED) |
| 45 033 19 | SA45HHR/3K | SA45HHR 42W/830 PC HH R/S | LED | pearl grey | 10,0 | |
| 45 033 48 | SA45HHRED/3K | SA45HHRED 42W/830 PC HH R/S DA | LED | pearl grey | 10,0 | DALI (ED) |
| 45 033 22 | SA45MR/3K | SA45MR 42W/830 PC M R/S | LED | black | 10,0 | |
| 45 033 50 | SA45MRED/3K | SA45MRED 42W/830 PC M R/S DA | LED | black | 10,0 | DALI (ED) |
| Saga 3000 K - streetlight optics 4430 lm | | | | | | |
| 45 033 14 | SA45GHA/3K | SA45GHA 42W/830 PC GH A/S | LED | graphite grey | 10,0 | |
| 45 033 45 | SA45GHAED/3K | SA45GHAED 42W/830 PC GH A/S DA | LED | graphite grey | 10,0 | DALI (ED) |
| 45 033 17 | SA45HHA/3K | SA45HHA 42W/830 PC HH A/S | LED | pearl grey | 10,0 | |
| 45 033 47 | SA45HHAED/3K | SA45HHAED 42W/830 PC HH A/S DA | LED | pearl grey | 10,0 | DALI (ED) |
| 45 033 20 | SA45MA/3K | SA45MA 42W/830 PC M A/S | LED | black | 10,0 | |
| 45 033 49 | SA45MAED/3K | SA45MAED 42W/830 PC M A/S DA | LED | black | 10,0 | DALI (ED) |
| Glare Covers | | | | | | |
| 45 033 62 | AVL958 | Saga glare cover plate 120° GH | | graphite grey | 0,29 | |
| 45 033 63 | AVL959 | Saga glare cover plate 120° HH | | pearl grey | 0,29 | |
| 45 033 64 | AVL960 | Saga glare cover plate 120° M | | black | 0,29 | |



| Luminaires per miniature circuit breaker | B10 | B16 | C10 | C16 |
|--|-----|-----|-----|-----|
| SA30 | 15 | 25 | 26 | 42 |
| SA30ED, DALI | 16 | 26 | 27 | 44 |
| SA45 | 6 | 11 | 11 | 18 |
| SA45ED, DALI | 6 | 11 | 11 | 18 |



Ensto Saga writes a new story to outdoor lighting. Symmetric and asymmetric light distribution options and truly magnificent design greets people and premises on many locations.



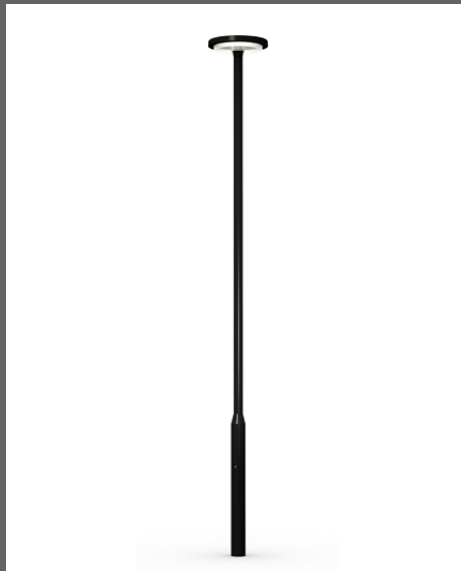
SAGA STEPPED AND WOODEN POLES

| E Number | Type | Product name | Total height | Base height | Base ø | Spigot ø | Kg |
|---------------------------|---------------|--------------------------------|--------------|-------------|--------|----------|------|
| Saga stepped poles | | | | | | | |
| 46 030 07 | SAGA4SA9G | SAGA 4S AKZO 900 GREY | 4500 mm | 500 mm | 139 mm | 60 mm | 44,0 |
| 46 030 10 | SAGA5SA9G | SAGA 5S AKZO 900 GREY | 5500 mm | 500 mm | 139 mm | 60 mm | 51,0 |
| 46 030 11 | SAGA6SA9G | SAGA 6S AKZO 900 GREY | 6500 mm | 500 mm | 139 mm | 60 mm | 58,0 |
| 46 030 13 | SAGA4S9005 | SAGA 4S RAL 9005 | 4500 mm | 500 mm | 139 mm | 60 mm | 44,0 |
| 46 030 14 | SAGA5S9005 | SAGA 5S RAL 9005 | 5500 mm | 500 mm | 139 mm | 60 mm | 51,0 |
| 46 030 15 | SAGA6S9005 | SAGA 6S RAL 9005 | 6500 mm | 500 mm | 139 mm | 60 mm | 58,0 |
| 46 030 16 | SAGA4S9006 | SAGA 4S RAL 9006 | 4500 mm | 500 mm | 139 mm | 60 mm | 44,0 |
| 46 030 17 | SAGA5S9006 | SAGA 5S RAL 9006 | 5500 mm | 500 mm | 139 mm | 60 mm | 51,0 |
| 46 030 18 | SAGA6S9006 | SAGA 6S RAL 9006 | 6500 mm | 500 mm | 139 mm | 60 mm | 58,0 |
| Saga wooden poles | | | | | | | |
| 46 030 19 | SAGA4WA9GCIN | SAGA 4W AKZO 900 GREY/CINNAMON | 4500 mm | 500 mm | 139 mm | 60 mm | 43,0 |
| 46 030 20 | SAGA5WA9GCIN | SAGA 5W AKZO 900 GREY/CINNAMON | 5500 mm | 500 mm | 139 mm | 60 mm | 49,0 |
| 46 030 21 | SAGA6WA9GCIN | SAGA 6W AKZO 900 GREY/CINNAMON | 6500 mm | 500 mm | 139 mm | 60 mm | 54,0 |
| 46 030 22 | SAGA4W9005CIN | SAGA 4W RAL 9005/CINNAMON | 4500 mm | 500 mm | 139 mm | 60 mm | 43,0 |
| 46 030 23 | SAGA5W9005CIN | SAGA 5W RAL 9005/CINNAMON | 5500 mm | 500 mm | 139 mm | 60 mm | 49,0 |
| 46 030 24 | SAGA6W9005CIN | SAGA 6W RAL 9005/CINNAMON | 6500 mm | 500 mm | 139 mm | 60 mm | 54,0 |
| 46 030 25 | SAGA4W9006CIN | SAGA 4W RAL 9006/CINNAMON | 4500 mm | 500 mm | 139 mm | 60 mm | 43,0 |
| 46 030 26 | SAGA5W9006CIN | SAGA 5W RAL 9006/CINNAMON | 5500 mm | 500 mm | 139 mm | 60 mm | 49,0 |
| 46 030 27 | SAGA6W9006CIN | SAGA 6W RAL 9006/CINNAMON | 6500 mm | 500 mm | 139 mm | 60 mm | 54,0 |
| 46 030 28 | SAGA4WA9GSAF | SAGA 4W AKZO 900 GREY/SAFFRON | 4500 mm | 500 mm | 139 mm | 60 mm | 43,0 |
| 46 030 29 | SAGA5WA9GSAF | SAGA 5W AKZO 900 GREY/SAFFRON | 5500 mm | 500 mm | 139 mm | 60 mm | 49,0 |
| 46 030 30 | SAGA6WA9GSAF | SAGA 6W AKZO 900 GREY/SAFFRON | 6500 mm | 500 mm | 139 mm | 60 mm | 54,0 |
| 46 030 31 | SAGA4W9005SAF | SAGA 4W RAL 9005/SAFFRON | 4500 mm | 500 mm | 139 mm | 60 mm | 43,0 |
| 46 030 32 | SAGA5W9005SAF | SAGA 5W RAL 9005/SAFFRON | 5500 mm | 500 mm | 139 mm | 60 mm | 49,0 |
| 46 030 33 | SAGA6W9005SAF | SAGA 6W RAL 9005/SAFFRON | 6500 mm | 500 mm | 139 mm | 60 mm | 54,0 |
| 46 030 34 | SAGA4W9006SAF | SAGA 4W RAL 9006/SAFFRON | 4500 mm | 500 mm | 139 mm | 60 mm | 43,0 |
| 46 030 35 | SAGA5W9006SAF | SAGA 5W RAL 9006/SAFFRON | 5500 mm | 500 mm | 139 mm | 60 mm | 49,0 |
| 46 030 36 | SAGA6W9006SAF | SAGA 6W RAL 9006/SAFFRON | 6500 mm | 500 mm | 139 mm | 60 mm | 54,0 |





SAGA 5S AKZO 900 GREY



SAGA 5S RAL 9005



SAGA 5S RAL 9006



SAGA 5W AKZO 900 GREY/CINNAMON



SAGA 5W RAL 9005/CINNAMON



SAGA 5W RAL 9006/CINNAMON



SAGA 5W AKZO 900 GREY/SAFFRON



SAGA 5W RAL 9005/SAFFRON



SAGA 5W RAL 9006/SAFFRON

