



- Elegant complete lighting packages
- 6 aesthetic combinations (brackets/luminaires)
- Street, area and pedestrian crossing optics in the same lantern to guarantee consistent design theme for a wide range of applications
- Offers a comprehensive urban lighting solution in combination with Plurio, Alumet, Mica, E/Fact ideal for city rejuvenation projects
- State of the art LED versions with Street and Asymmetric optics

Applications

- Urban street lighting
- Urban pedestrian streets and cycle paths
- Residential
- Car parks
- Parks
- Building surrounds





A visual coherence in the urban environment

Clan presents a portfolio linked by a single consistent design theme to give great scope to the landscape architect and designer.

Clan compliments a variety of Thorn products (eg. Plurio, AluMET, E-Fact, Mica).

Together they are an essential element in achieving a harmonious lighting plan for all the areas of a city, from the centre to the suburbs. Equipped with the latest technologies and durable materials they are key to building a successful, coherent and sustainable lighting design.

Efficient operation

With Clan featuring new generations of optical systems, light sources, gears and lighting controls, you can achieve up to 50% energy savings on current aged installations without compromising on lighting levels and the quality of light according to the relevant lighting standards (e.g EN13 201).

The dimming function available with 70W HID, Cosmopolis® lamps and LEDs enables further savings up to 50% with LEDs compared with conventional lamps.





Optical performance and flexibility

Clan allows you to provide 2 lighting distributions from a single, consistent design theme:

- Street (LED and conventional lamps)
- Area (LED and conventional lamps)

The optics have been designed around new generations of light sources (Cosmopolis® lamps, LEDs) to ensure light is delivered where it is needed without upward or backward spill light and using fewer lanterns.

Optimised lifetime of LED system

Performance and efficiency are the key elements to optimise energy consumption and ensure the safety of end users. The challenge, of course, is to maintain this over time and to reduce maintenance costs. Clan LED has been designed for a 80,000h lifetime (L70, 25°) without dimming or 50,000h lifetime (L80, 25°C) without dimming. In a typical night time burning situation, this can equate to over 20 years, but the ambient operating temperature has an important effect on the life expectancy of the LED luminaire.

Gain 20% lifetime with dimming

All Clan LED lanterns are available with integrated dimming at no extra cost. Dimming can increase the lifetime of an installation by 20%. For example at 10°C, instead of 80,000hrs, the dimmable Clan LEDs can achieve over 100,000hrs, i.e about 25 years!

3 bracket collections

Deco



Archi



Basic



2 lanterns

Clan O - Original

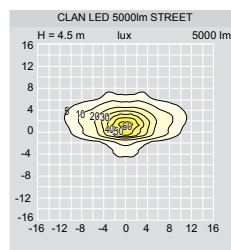


Clan C - Compact

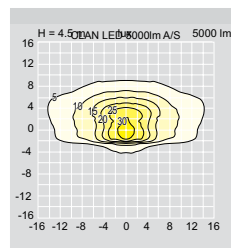


2 optics

Street lighting



Area lighting



2 lamp technologies

Conventional (HIT-CE/CPO/HST)



LEDs





Archi brackets





Deco brackets

Basic brackets



Clan C



www.thornlighting.co.uk/CLNC



- 3 bracket collections, 2 optics, 13 lamps, and dimming option to match a wide scope of applications and optimise energy consumption
- Street and area high performance optics to light urban spaces to achieve a visual harmony
- State of the art LED versions complying with EN13201 with an expected lifetime of 50,000h (Ta: 25°C, L80) and proposed with integrated dimming for further energy savings
- Coordinated with Plurio and AluMet for a complete urban offer ideal for cityscape rejuvenation projects

Materials/Finish

Body: cast aluminium (LM6) powder coated sandy silver grey (close to RAL 9006)

Enclosure: toughened glass

Reflector and mirrors (LED version):

high reflective anodised aluminium

Screw fixings and clip: stainless steel

Brackets: powder coated sandy silver grey (close to RAL 9006). Any RAL on request.

Cylindro conical columns: galvanised steel, powder coated sandy grey, 3 to 6m.

Installation/Mounting

Fixation of the lantern to dedicated brackets via 2 screws with safety bolts on the top.

Recommended heights: from 3m (with Basic bracket) to 6m, height of column to be chosen according to the height of the bracket.

Dedicated range of brackets and columns, cannot be mounted with other brackets.

Tilt: 5°, given by bracket

Cable gland for Ø8mm to 13 mm cable

Conventional lamp versions: available prewired with 7m HO5-VV F cable, other lengths and cable types (e.g. HO7RN-F) on request. LED versions prewired with 7m cable (2x 1,5mm² HO5-VV F or HO7RN-F)

Tool-free access and replacement of lamp and gear with handle and circuit test key after opening of the hinged enclosure.

All connections are socket type with springs.

Delivered ready to install, complete with factory fitted integral gear, all supplied in one carton (without lamp).

Brackets:

Post top brackets (Basic) for 60mm spigot column, 76mm possible with an adaptor with Basic brackets only. Fixation all brackets but Basic by 4 screws M10, and 2 screws M8 for Basic.

Tilt angle: 5°

All brackets are dedicated to Clan C lanterns, they also cannot accept other lanterns. Basic lateral fixing can accept any 60mm bracket on the market.

Specification

To specify state:

IP66 compact aluminium urban lantern with street or area optics and integral control gear for 35W to 150W lamps and up to 6000lm LED packages. Mounted exclusively on Clan decorative brackets. Tool-free access to lamp and gear with handle and circuit test key. Optional dimming and minicell. As Thorn Clan C.

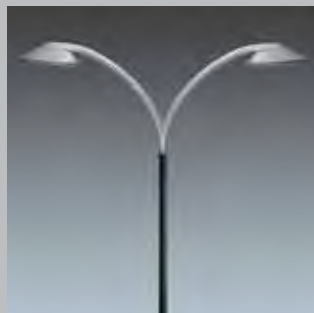
Clan C



Clan C Archi



Clan C Basic



Clan C Deco



Lamps

| | | | |
|--|-----------------|-----|---------|
| | HIT-CE (MT) | G12 | 35-150W |
| | HIT-CE E27 (MT) | E27 | 70W |
| | LED | | 39-84W |

Standards



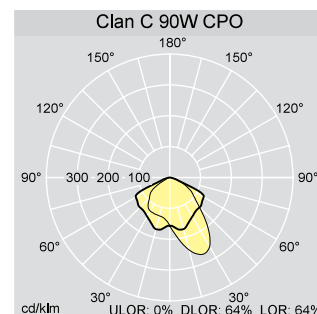
Ordering Guide

For complete fitting, order luminaire, bracket and column. Supplied complete with lamp/LEDs.

| Description | Wt (kg) | SAP Code |
|--|---------|----------|
| Clan C LED lanterns, street optic | | |
| CLAN C LED500 39W/BP CL1 W7M | 9.70 | 96258135 |
| CLAN C LED500 58W/BP CL1 W7M | 9.70 | 96258136 |
| CLAN C LED700 84W/BP CL1 W7M | 9.70 | 96263309 |
| Clan C LED lanterns, asymmetric optic | | |
| CLAN C LED500 39W/BP CL1 A/S W7M | 9.70 | 96258147 |
| CLAN C LED500 58W/BP CL1 A/S W7M | 9.70 | 96258148 |
| CLAN C LED700 84W/BP CL1 A/S W7M | 9.70 | 96263312 |
| Clan C LED lanterns, street optic with basic bracket | | |
| CLAN C LED500 39W/BP CL1 W7M MTP | 11.30 | 96258123 |
| CLAN C LED500 58W/BP CL1 W7M MTP | 11.30 | 96258124 |
| CLAN C LED700 84W/BP CL1 W7M MTP | 11.30 | 96263305 |
| Clan C lanterns, street optic, electronic gear | | |
| CLAN C 35W HIT-CE G12 CL1/L | 5.60 | 96239985 |
| CLAN C 45W CPO CL1/L | 6.30 | 96239986 |
| CLAN C 60W CPO CL1/L | 6.30 | 96239988 |
| CLAN C 70W HIT DGE E27 CL1/L | 6.20 | 96239992 |
| CLAN C 70W HIT-CE G12 CL1/L | 6.10 | 96239994 |
| CLAN C 90W CPO CL1/L | 6.40 | 96239996 |
| CLAN C 100W HIT-CE G12 CL1/L | 6.20 | 96239975 |
| CLAN C 140W CPO CL1/L | 6.40 | 96239976 |
| CLAN C 150W HIT-CE G12 CL1/L | 6.20 | 96239980 |
| Clan C lanterns, street optic, power reduction gear | | |
| CLAN C 60W CPO/BP CL1/L | 6.30 | 96239990 |
| CLAN C 90W CPO/BP CL1/L | 6.40 | 96239998 |
| CLAN C 140W CPO/BP CL1/L | 6.40 | 96239978 |
| Clan C lanterns, asymmetric optic, electronic gear | | |
| CLAN C 45W CPO CL1 A/S/L | 6.20 | 96239987 |
| CLAN C 60W CPO CL1 A/S/L | 6.20 | 96239989 |
| CLAN C 70W HIT DGE E27 CL1 A/S/L | 6.10 | 96239993 |
| CLAN C 90W CPO CL1 A/S/L | 6.30 | 96239997 |
| CLAN C 140W CPO CL1 A/S/L | 6.30 | 96239977 |
| Clan C lanterns, asymmetric optic, power reduction gear | | |
| CLAN C 60W CPO/BP CL1 A/S/L | 6.20 | 96239991 |
| CLAN C 90W CPO/BP CL1 A/S/L | 6.30 | 96239999 |
| CLAN C 140W CPO/BP CL1 A/S/L | 6.30 | 96239979 |

| Description | Wt (kg) | SAP Code |
|---|---------|----------|
| Clan C brackets | | |
| CLAN ADAPTOR 76MM | 0.90 | 96257409 |
| CLAN ARCHI/C BRAX1 MLE | 3.30 | 96257396 |
| CLAN ARCHI/C BRAX1 MTP D60 | 6.30 | 96257393 |
| CLAN ARCHI/C BRAX1 MWA | 3.00 | 96257395 |
| CLAN ARCHI/C BRAX2 MTP D60 | 10.40 | 96257394 |
| CLAN BASIC/C BRAX1 MLE D60 PM/LDRF | 1.50 | 96261304 |
| CLAN BASIC/C BRAX1 MTP D60 | 1.70 | 96258254 |
| CLAN BASIC/C BRAX1 MTP D60 PM/LDRF | 1.70 | 96259079 |
| CLAN BASIC/C BRAX2 MTP D60 | 2.50 | 96261307 |
| CLAN BASIC/C BRAX2 MTP D60 PM/LDRF | 2.50 | 96261308 |
| CLAN BASIC/C MLE | 1.50 | 96261303 |
| CLAN DECO/C BRAX1 MLE | 4.00 | 96257400 |
| CLAN DECO/C BRAX1 MTP D60 | 6.50 | 96257397 |
| CLAN DECO/C BRAX1 MWA | 3.60 | 96257399 |
| CLAN DECO/C BRAX2 MTP D60 SIL | 9.20 | 96257398 |
| Clan C accessory | | |
| CLAN C LVBACK | 0.10 | 96257632 |
| Clan C Columns, cylindro conical, sandy grey | | |
| CLAN COL 3,5M CCO D60 ST MPL FAI GRY | 26.00 | 96258615 |
| CLAN COL 3M CCO D60 ST MPL FAI GRY | 22.00 | 96258614 |
| CLAN COL 4,5M CCO D60 ST MPL FAI GRY | 34.00 | 96258624 |
| CLAN COL 4M CCO D60 ST MPL FAI GRY | 30.00 | 96258620 |
| CLAN COL 5,5M CCO D60 ST MPL FAI GRY | 44.30 | 96258626 |
| CLAN COL 5M CCO D60 ST MPL FAI GRY | 37.50 | 96258625 |
| CLAN COL 6M CCO D60 ST MPL FAI GRY | 49.00 | 96258629 |

| Height of CCO column (m) | Height including luminaire (m) | | |
|--------------------------|--------------------------------|-------|-------|
| | Deco | Archi | Basic |
| 3.0 | 3.7 | 3.3 | 2.9 |
| 3.5 | 4.2 | 3.8 | 3.3 |
| 4.0 | 4.7 | 4.3 | 3.8 |
| 4.5 | 5.2 | 4.8 | 4.3 |
| 5.0 | 5.7 | 5.3 | 4.8 |
| 5.5 | 6.2 | 5.8 | 5.3 |
| 6.0 | 6.7 | 6.3 | 5.8 |



Clan O



www.thornlighting.co.uk/CLNO



- 3 bracket collections, 2 optics, 13 lamps and dimming option to match a wide scope of applications and optimise energy consumption
- Street or area high performance optics to light urban spaces to achieve a visual harmony
- State of the art LED versions complying with EN13201 with an expected lifetime of 50,000h (Ta: 25°C, L80) and proposed with integrated dimming for further energy savings
- Coordinated with Plurio and AluMet for a complete urban offer ideal for cityscape rejuvenation projects

Materials/Finish

Body: cast aluminium (LM6) powder coated sandy silver grey (close to RAL 9006)

Enclosure: toughened glass

Reflector and mirrors (LED version):

high reflective anodised aluminium

Screw fixings and clip: stainless steel

Brackets: powder coated sandy silver grey (close to RAL 9006). Any RAL on request.

Cylindro conical columns: galvanised steel, powder coated sandy grey, 3 to 6m.

Installation/Mounting

Fixation of the lantern to dedicated brackets via 2 screws with safety bolts on the top.

Recommended heights: from 3m (with Basic bracket) to 6m, height of column to be chosen according to the height of the bracket.

Dedicated range of brackets and columns, cannot be mounted with other brackets.

Tilt: 5°, given by bracket

Cable gland for Ø8mm to 13 mm cable

Conventional lamp versions: available prewired with 7m HO5-VV F cable, other lengths and cable types (e.g. HO7RN-F) on request. LED versions prewired with 7m cable (2x 1,5mm² HO5-VV F or HO7RN-F)

Tool-free access and replacement of lamp and gear with handle and circuit test key after opening of the hinged enclosure.

All connections are socket type with springs.

Delivered ready to install, complete with factory fitted integral gear, all supplied in one carton (without lamp).

Brackets:

Post top brackets (Basic) for 60mm spigot column, 76mm possible with an adaptor with Basic brackets only. Fixation all brackets but Basic by 4 screws M10, and 2 screws M8 for Basic.

Tilt angle: 5°

All brackets are dedicated to Clan O lanterns, they also cannot accept other lanterns. Basic lateral fixing can accept any 60mm bracket on the market.

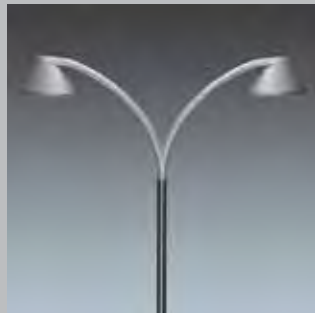
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Clan O Archi



Clan O Deco



Clan O Basic

Lamps

| | | |
|--|--------------------|---------|
| | HIT-CE (MT) G12 | 35-150W |
| | HIT-CE E27 (MT) | 70W |
| | HST/HIT-CE (ST/MT) | 70W |
| | LED | 39-84W |

Standards



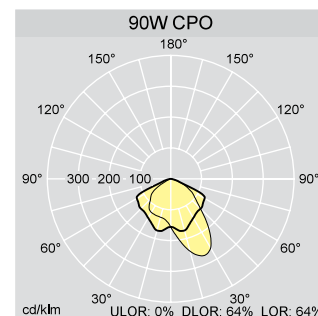
Ordering Guide

For complete fitting, order luminaire, bracket and column. Lamp to be ordered separately (except LEDs)/Supplied complete with lamp/LEDs.

| Description | Wt (kg) | SAP Code |
|--|---------|----------|
| Clan O LED lanterns, street optic | | |
| CLAN O LED500 39W/BP CL1 W7M | 10.60 | 96258141 |
| CLAN O LED500 58W/BP CL1 W7M | 10.60 | 96258142 |
| CLAN O LED700 84W/BP CL1 W7M | 10.60 | 96263300 |
| Clan O LED lanterns, asymmetric optic | | |
| CLAN O LED500 39W/BP CL1 A/S W7M | 10.60 | 96258153 |
| CLAN O LED500 58W/BP CL1 A/S W7M | 10.60 | 96258154 |
| CLAN O LED700 84W/BP CL1 A/S W7M | 10.60 | 96263303 |
| Clan O LED lanterns, street optic with basic bracket | | |
| CLAN O LED500 39W/BP CL1 W7M MTP | 12.50 | 96258129 |
| CLAN O LED500 58W/BP CL1 W7M MTP | 12.50 | 96258130 |
| CLAN O LED700 84W/BP CL1 W7M MTP | 12.50 | 96263297 |
| Clan O lanterns, street optic, electronic gear | | |
| CLAN O 35W HIT-CE G12 CL1/L | 6.20 | 96240016 |
| CLAN O 45W CPO CL1/L | 6.90 | 96240017 |
| CLAN O 60W CPO CL1/L | 6.90 | 96240019 |
| CLAN O 70W HIDE HIT E27 CL1/L | 6.80 | 96240023 |
| CLAN O 70W HIT-CE G12 CL1/L | 6.80 | 96240025 |
| CLAN O 90W CPO CL1 /L | 7.00 | 96240031 |
| CLAN O 100W HIT-CE G12 CL1/L | 6.80 | 96240003 |
| CLAN O 140W CPO CL1/L | 7.00 | 96240005 |
| CLAN O 150W HIT-CE G12 CL1/L | 6.80 | 96240010 |
| Clan O lanterns, street optic, power reduction gear | | |
| CLAN O 60W CPO/BP CL1/L | 6.90 | 96240021 |
| CLAN O 90W CPO/BP CL1/L | 7.00 | 96240034 |
| CLAN O 140W CPO/BP CL1/L | 7.00 | 96240008 |
| Clan O lanterns, asymmetric optic, electronic gear | | |
| CLAN O 45W CPO CL1 A/S/L | 6.90 | 96240018 |
| CLAN O 60W CPO CL1 A/S/L | 6.90 | 96240020 |
| CLAN O 70W HIT DGE E27 CL1 A/S/L | 6.80 | 96240024 |
| CLAN O 90W CPO CL1 A/S/L | 7.00 | 96240033 |
| CLAN O 140W CPO CL1 A/S/L | 7.00 | 96240007 |
| Clan O lanterns, asymmetric optic, power reduction gear | | |
| CLAN O 60W CPO/BP CL1 A/S/L | 6.90 | 96240022 |
| CLAN O 90W CPO/BP CL1 A/S/L | 7.00 | 96240035 |
| CLAN O 140W CPO/BP CL1 A/S/L | 7.00 | 96240009 |

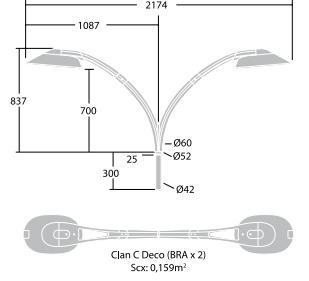
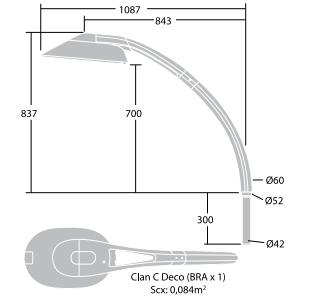
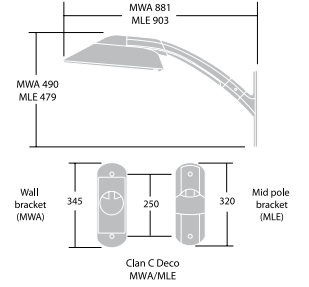
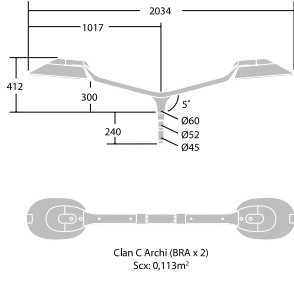
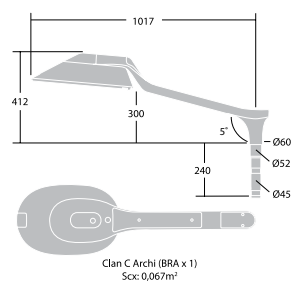
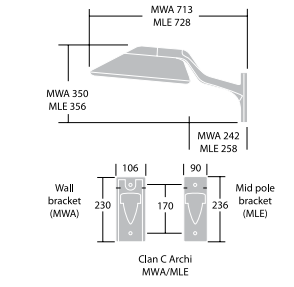
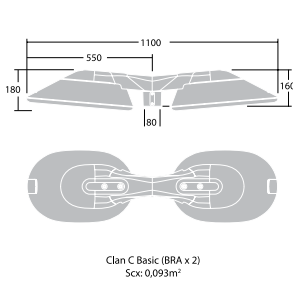
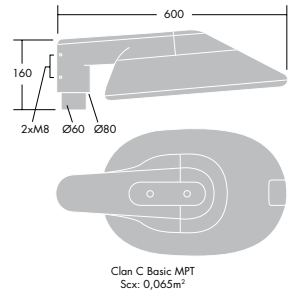
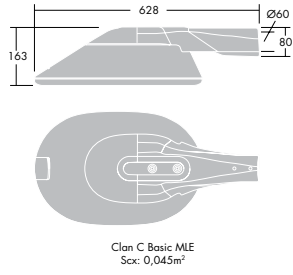
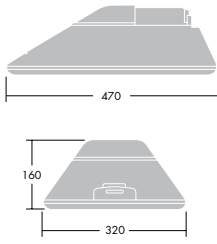
| Description | Wt (kg) | SAP Code |
|---|---------|----------|
| Clan O brackets | | |
| CLAN ADAPTOR 76MM | 0.90 | 96257409 |
| CLAN ARCHI/O BRAX1 MLE | 3.70 | 96257404 |
| CLAN ARCHI/O BRAX1 MTP D60 | 5.90 | 96257401 |
| CLAN ARCHI/O BRAX1 MWA | 3.40 | 96257403 |
| CLAN ARCHI/O BRAX2 MTP D60 | 9.50 | 96257402 |
| CLAN BASIC/O BRAX1 MLE D60 PM/LDRF | 1.80 | 96261306 |
| CLAN BASIC/O BRAX1 MTP D60 | 1.90 | 96258255 |
| CLAN BASIC/O BRAX1 MTP D60 PM/LDRF | 1.90 | 96259080 |
| CLAN BASIC/O BRAX2 MTP D60 | 3.00 | 96261309 |
| CLAN BASIC/O BRAX2 MTP D60 PM/LDRF | 3.00 | 96261310 |
| CLAN BASIC/O MLE | 1.80 | 96261305 |
| CLAN DECO/O BRAX1 MLE | 4.30 | 96257408 |
| CLAN DECO/O BRAX1 MTP D60 | 6.20 | 96257405 |
| CLAN DECO/O BRAX1 MWA | 3.90 | 96257407 |
| CLAN DECO/O BRAX2 MTP D60 | 8.60 | 96257406 |
| Clan O accessory | | |
| CLAN O LVBACK | 0.12 | 96257631 |
| Clan O Columns, cylindro conical, sandy grey | | |
| CLAN COL 3,5M CCO D60 ST MPL FAI GRY | 26.00 | 96258615 |
| CLAN COL 3M CCO D60 ST MPL FAI GRY | 22.00 | 96258614 |
| CLAN COL 4,5M CCO D60 ST MPL FAI GRY | 34.00 | 96258624 |
| CLAN COL 4M CCO D60 ST MPL FAI GRY | 30.00 | 96258620 |
| CLAN COL 5,5M CCO D60 ST MPL FAI GRY | 44.30 | 96258626 |
| CLAN COL 5M CCO D60 ST MPL FAI GRY | 37.50 | 96258625 |
| CLAN COL 6M CCO D60 ST MPL FAI GRY | 49.00 | 96258629 |

| Height of CCO column (m) | Height including luminaire (m) | | |
|--------------------------|--------------------------------|-------|-------|
| | Deco | Archi | Basic |
| 3.0 | 3.6 | 3.2 | 2.7 |
| 3.5 | 4.1 | 3.7 | 3.2 |
| 4.0 | 4.6 | 4.2 | 3.7 |
| 4.5 | 5.1 | 4.7 | 4.2 |
| 5.0 | 5.6 | 5.2 | 4.7 |
| 5.5 | 6.1 | 5.7 | 5.2 |
| 6.0 | 6.6 | 6.2 | 5.7 |



Clan dimensions

Clan C



Clan O

