

Alpo

LED | T5



Alpo LED

Alpo is LED and T5 universal and working zone luminaire for offices and other public premises. The luminaire is suitable for direct and direct/ indirect lighting combination. In the product range can be found solutions for majority of office environments.

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.

SmartOne

Ensto SmartOne is a standalone solution for offices and public premises which does not need any extra wiring. Luminaire operates independently depending on movement, presence or light coming from other sources. Plug'n Play, no programming needed.

Tunable White

Ensto luminaires with Tunable White -solution are a base for Human Centric lighting. You can integrate Ensto TW -luminaires into numerous control systems which operate steplessly between 2700 K and 6500 K. Tunable White -solution is perfect for modern office use.

SmartWay

Ensto SmartWay is a self-learning, wirelessly networked and future proof control system. SmartWay luminaires listen and learn by themselves and from each other to make sure that there is always light on your way. Plug'n play, no programming or commissioning needed.

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.

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.



“Multi-purpose Alpo suits well for many locations.”



Alpo matte-anodised louvre (31)



Alpo with integrated sensor

Structure

- › Body - white (RAL 9016) powder coated steel
- › Reflector - gloss anodised aluminium
- › Louvre anodised aluminium: low-luminance louvre matte-anodised (31) or low-luminance semigloss anodised (33)
- › Louvre is hinged and locked to the body
- › Models:
 - Direct light
 - Ambient light (Y=small uplight holes), uplight ca. 10% (T5) and 30% (LED)
 - Direct/indirect light (A= big uplight holes), uplight ca. 40% (T5)
 - Board luminaires (T5) - assymmetric reflector without louvre
- › Cable entry holes (2xø 21 mm) at both ends of the luminaire, made-to-order without cable entry holes at the luminaire ends, LED-models without cable entry holes
- › Multi-ballast models are equipped with control gear which identify the lamp power, powers 35/49W and 28/54W
- › LED-models with low-luminance louvre (semi-gloss anodised)
 - Connected load and luminaire luminous flux, see table
 - 4000 K, Ra > 80, power factor 0,98
 - Ambient temperature - 20 °C - + 25 °C
 - LED-module lifespan 50 000 h (L70), T_a=25 °C

Mounting

- › Directly to the ceiling or on a lighting suspension rail. Stand alone or continuous lines with ramp mounting kit RAMPPI/APLV (LED) or RAMPPI/APV (T5).
- › Wire suspension
- › Recess mounting with a separate recess frame
- › Recess hole = luminaire dimensions + 10 mm
- › -o- 5x2,5 mm² (Direct light and dimmable models)
- › -o- 3x2,5 mm² (Ambient and Direct/indirect light models)
- › Direct light models: connection point in the middle of the luminaire. Cable entry holes in the middle of the luminaire and next to the suspension point
- › Ambient and Direct/indirect light models: connection point at the end of the luminaire, next to the suspension point. Cable entry holes next to the suspension point.
- › Mounting accessories to be ordered separately

Made to order

- › LED-models with 3000K colour temperature
- › Control:
 - Switch-Control (ES)
 - 1-10V (ELD), only T5 models
- › LED-models with tunable white (2700-6500 K)
- › With pull cord switch, connection lead, light source
- › With integrated sensor
- › With grey colour (RAL 9006)
- › With lighting track brackets
- › Alpo LED -versions to Helvar's Select the Weather solution
- › With luminaire integrated sensors. Check sensor specific availability from the Ensto Lighting product management.

| E number | Type | Product name | Output | Base | Kg | Light distribution | A | E | Luminous flux | Control |
|---|------------|--------------------------------|--------|------|-----|--------------------|------|------|---------------|---------|
| Alpo LED direct light models, with low-luminance louvre (semi-gloss anodised) | | | | | | | | | | |
| 42 606 78 | APL14433 | APL14433 LED 36W/840 WH | 36W | LED | 3,2 | K14 | 1187 | 1100 | 3938 lm | |
| 42 606 79 | APL14433ED | APL14433ED LED 36W/840 WH DALI | 36W | LED | 3,2 | K14 | 1187 | 1100 | 3938 lm | DALI |
| 42 606 84 | APL15433 | APL15433 LED 44W/840 WH | 44W | LED | 3,9 | K14 | 1487 | 1400 | 4919 lm | |
| 42 606 85 | APL15433ED | APL15433 LED 44W/840 WH DALI | 44W | LED | 3,9 | K14 | 1487 | 1400 | 4919 lm | DALI |

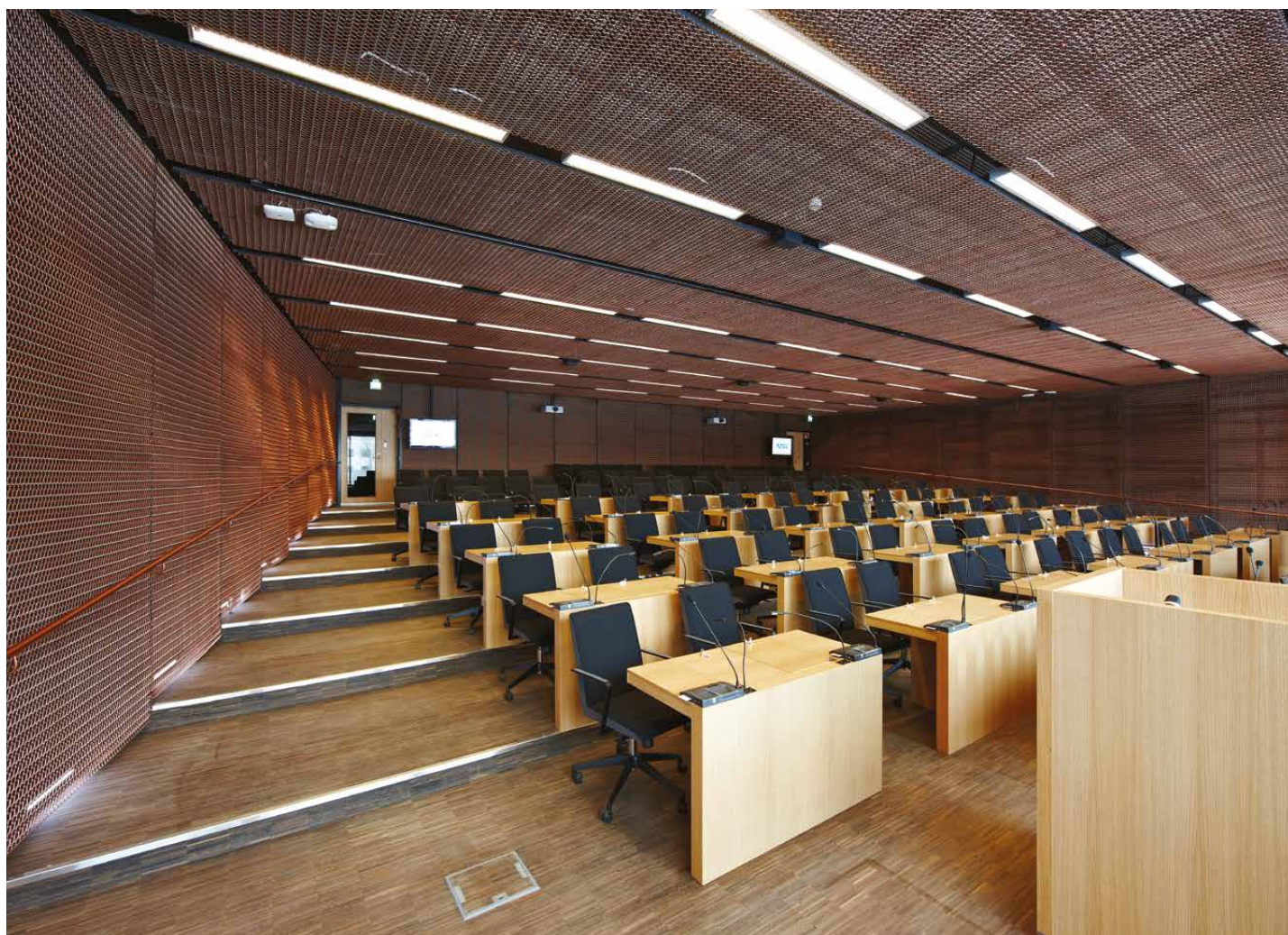


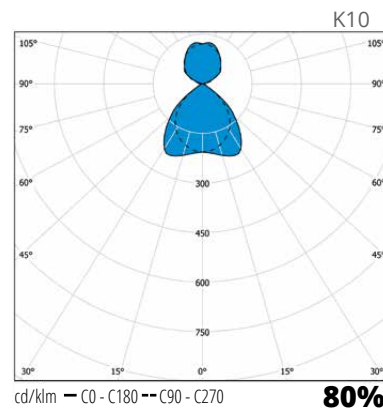
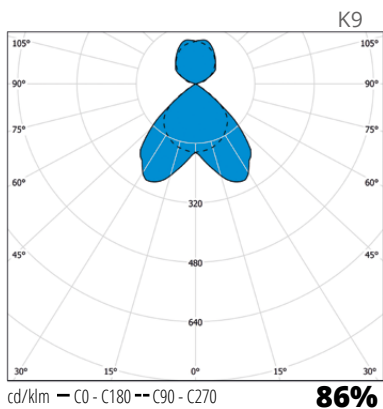
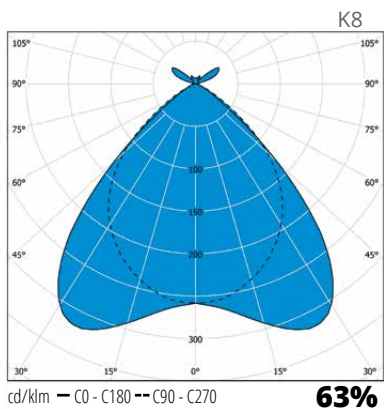
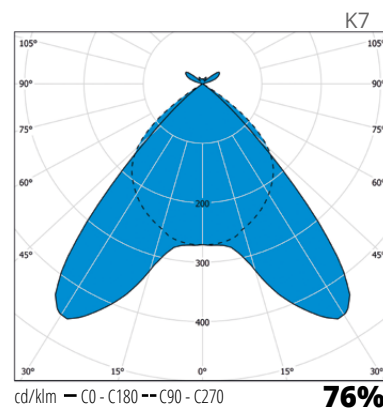
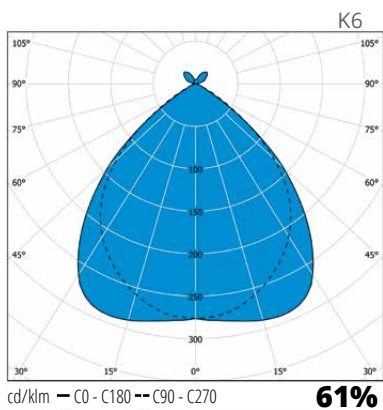
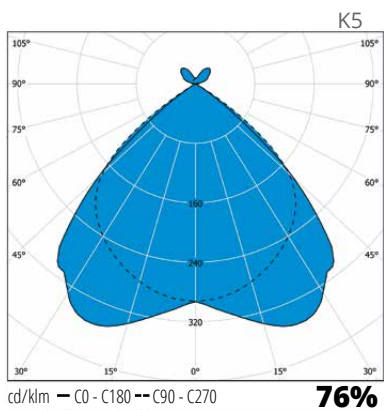
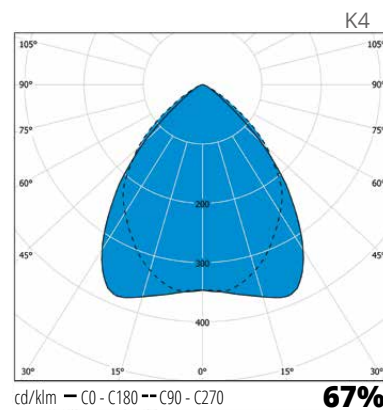
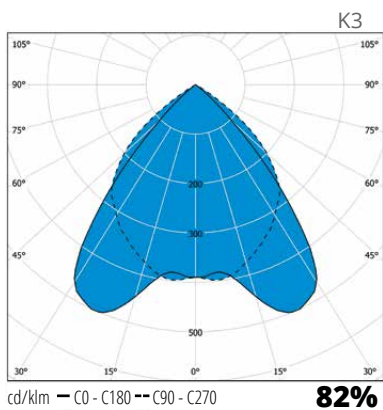
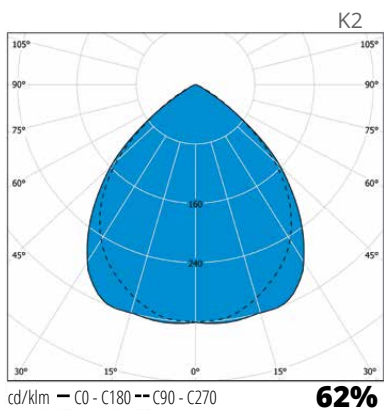
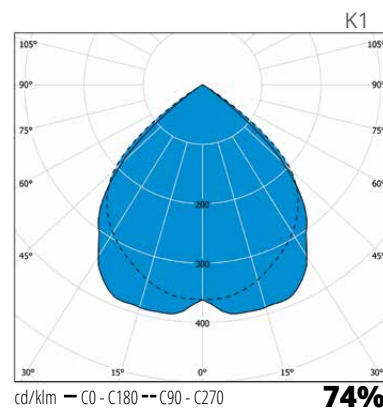
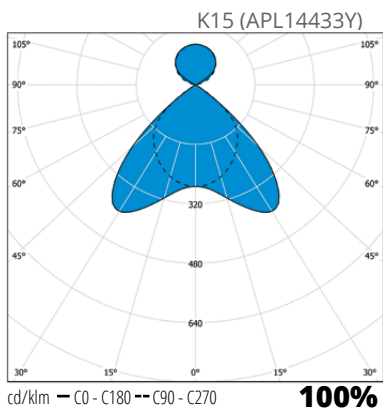
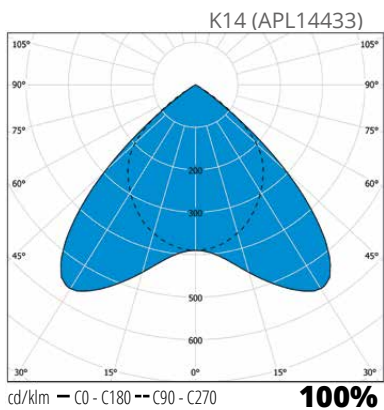
| E number | Type | Product name | Output | Base | Kg | Light distribution | A | E | Luminous flux | Control |
|--|-------------|-------------------------------|--------|------|-----|--------------------|------|------|---------------|----------|
| Alpo LED ambient light models, upright 30 % with low-luminance louvre (semi-gloss anodised) | | | | | | | | | | |
| 42 606 81 | APL14433Y | APL14433Y LED 48W/840 WH | 48W | LED | 3,2 | K15 | 1187 | 1100 | 5586 lm | |
| 42 606 82 | APL14433YED | APL14433YED LED 48W/840 DALI | 48W | LED | 3,2 | K15 | 1187 | 1100 | 5586 lm | DALI |
| 42 606 87 | APL15433Y | APL15433Y LED 61W/840 WH | 61W | LED | 3,9 | K15 | 1487 | 1400 | 7110 lm | |
| 42 606 88 | APL15433YED | APL15433YED LED 61W/840 WH | 61W | LED | 3,9 | K15 | 1487 | 1400 | 7110 lm | DALI |
| Alpo LED SmartOne sensor luminaire | | | | | | | | | | |
| 42 915 14 | APL14433AP | APL14433AP LED 36W/840 WH AP | 36W | LED | 3,2 | K14 | 1187 | 1100 | 3938 lm | SmartOne |
| 42 915 16 | APL14433YAP | APL14433YAP LED 48W/840 AP | 48W | LED | 3,2 | K15 | 1187 | 1100 | 5586 lm | SmartOne |
| 42 915 19 | APL15433AP | APL15433AP LED 44W/840 WH AP | 44W | LED | 3,9 | K14 | 1487 | 1400 | 4919 lm | SmartOne |
| 42 915 20 | APL15433YAP | APL15433YAP LED 60W/840 WH AP | 60W | LED | 3,9 | K15 | 1487 | 1400 | 7110 lm | SmartOne |
| Alpo LED SmartWay sensor luminaire | | | | | | | | | | |
| 42 915 22 | APL14433AA | APL14433AA LED 36W/840 WH AA | 36W | LED | 3,2 | K14 | 1187 | 1100 | 3938 lm | SmartWay |
| 42 915 26 | APL14433YAA | APL14433YAA LED 48W/840 AA | 48W | LED | 3,2 | K15 | 1187 | 1100 | 5586 lm | SmartWay |
| 42 915 28 | APL15433AA | APL15433AA LED 44W/840 WH AA | 44W | LED | 3,9 | K14 | 1487 | 1400 | 4919 lm | SmartWay |
| 42 915 29 | APL15433YAA | APL15433YAA LED 60W/840 WH AA | 60W | LED | 3,9 | K15 | 1487 | 1400 | 7110 lm | SmartWay |
| Direct light models - low-luminance louvre (semi-gloss anodised) | | | | | | | | | | |
| 42 617 19 | AP281433 | AP281433 T5 1X28W | | G5 | 3,2 | K3 | 1187 | 1100 | | |
| 42 621 40 | AP541433 | AP541433 T5 1X54W | | G5 | 3,2 | K3 | 1187 | 1100 | | |
| 42 617 20 | AP351433 | AP351433 T5 1X35W | | G5 | 3,9 | K3 | 1487 | 1400 | | |
| 42 621 41 | AP491433 | AP491433 T5 1X49W | | G5 | 3,9 | K3 | 1487 | 1400 | | |
| 42 617 21 | AP282433 | AP282433 T5 2X28W | | G5 | 3,2 | K1 | 1187 | 1100 | | |
| 42 621 42 | AP542433 | AP542433 T5 2X54W | | G5 | 3,2 | K1 | 1187 | 1100 | | |
| 42 617 22 | AP352433 | AP352433 T5 2X35W | | G5 | 3,9 | K1 | 1487 | 1400 | | |
| 42 621 43 | AP492433 | AP492433 T5 2X49W | | G5 | 3,9 | K1 | 1487 | 1400 | | |
| 42 603 01 | AP281433ED | AP281433ED T5 1X28W DALI | | G5 | 3,2 | K3 | 1187 | 1100 | | DALI |
| 42 603 19 | AP541433ED | AP541433ED T5 1X54W DALI | | G5 | 3,2 | K3 | 1187 | 1100 | | DALI |
| 42 604 98 | AP351433ED | AP351433ED T5 1X35W DALI | | G5 | 3,9 | K3 | 1487 | 1400 | | DALI |
| 42 603 13 | AP491433ED | AP491433ED T5 1X49W DALI | | G5 | 3,9 | K3 | 1487 | 1400 | | DALI |
| 42 076 29 | AP282433ED | AP282433ED T5 2X28W DALI | | G5 | 3,2 | K1 | 1187 | 1100 | | DALI |
| 42 603 33 | AP542433ED | AP542433ED T5 2X54W DALI | | G5 | 3,2 | K1 | 1187 | 1100 | | DALI |
| 42 603 07 | AP352433ED | AP352433ED T5 2X35W DALI | | G5 | 3,9 | K1 | 1487 | 1400 | | DALI |
| 42 076 35 | AP492433ED | AP492433ED T5 2X49W DALI | | G5 | 3,9 | K1 | 1487 | 1400 | | DALI |
| Direct light models - low-luminance louvre (matte-anodised) | | | | | | | | | | |
| 42 617 15 | AP281431 | AP281431 T5 1X28W | | G5 | 3,2 | K4 | 1187 | 1100 | | |
| 42 621 28 | AP541431 | AP541431 T5 1X54W | | G5 | 3,2 | K4 | 1187 | 1100 | | |
| 42 617 16 | AP351431 | AP351431 T5 1X35W | | G5 | 3,9 | K4 | 1487 | 1400 | | |
| 42 621 29 | AP491431 | AP491431 T5 1X49W | | G5 | 3,9 | K4 | 1487 | 1400 | | |
| 42 617 17 | AP282431 | AP282431 T5 2X28W | | G5 | 3,2 | K2 | 1187 | 1100 | | |
| 42 621 30 | AP542431 | AP542431 T5 2X54W | | G5 | 3,2 | K2 | 1187 | 1100 | | |
| 42 617 18 | AP352431 | AP352431 T5 2X35W | | G5 | 3,9 | K2 | 1487 | 1400 | | |
| 42 621 31 | AP492431 | AP492431 T5 2X49W | | G5 | 3,9 | K2 | 1487 | 1400 | | |
| Direct light models - low-luminance louvre (matte-anodised) multi ballast - stock models | | | | | | | | | | |
| 42 076 54 | AP28M1431 | AP28M1431 T5 1X28/54W T5 | | G5 | 3,2 | K4 | 1187 | 1100 | | |
| 42 076 55 | AP28M2431 | AP28M2431 T5 2X28/54W T5 | | G5 | 3,2 | K2 | 1187 | 1100 | | |
| 42 076 56 | AP35M1431 | AP35M1431 T5 1X35/49W T5 | | G5 | 3,9 | K4 | 1487 | 1400 | | |
| 42 076 57 | AP35M2431 | AP35M2431 T5 2X35/49W T5 | | G5 | 3,9 | K2 | 1487 | 1400 | | |
| Direct light models - low-luminance louvre (matte-anodised) 1-10V stock models | | | | | | | | | | |
| 42 076 47 | AP282431ELD | AP282431ELD T5 2X28W 1-10V | | G5 | 3,2 | K2 | 1187 | 1100 | | |
| 42 076 51 | AP542431ELD | AP542431ELD T5 2X54W 1-10V | | G5 | 3,2 | K2 | 1187 | 1100 | | |
| 42 076 48 | AP352431ELD | AP352431ELD T5 2X35W 1-10V | | G5 | 3,4 | K2 | 1487 | 1400 | | |
| 42 076 50 | AP492431ELD | AP492431ELD T5 2X49W 1-10V | | G5 | 3,4 | K2 | 1487 | 1400 | | |

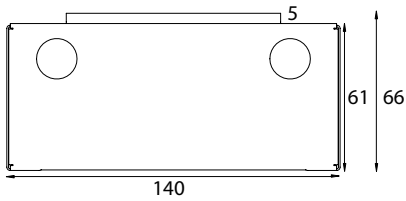
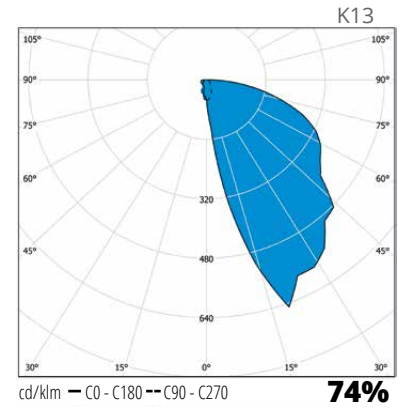
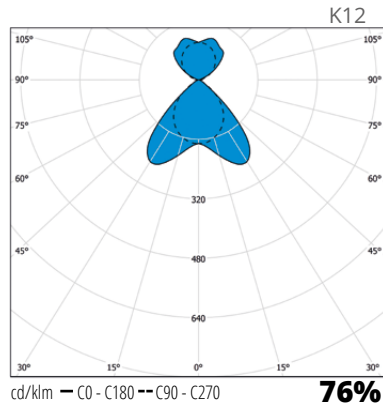
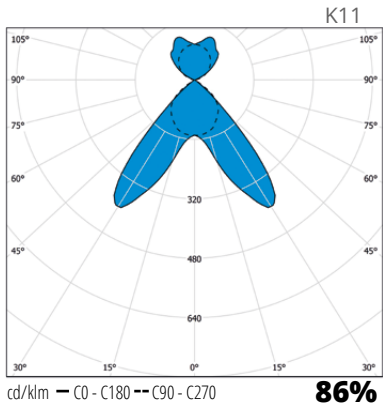
| E number | Type | Product name | Output | Base | Kg | Light distribution | A | E | Luminous flux | Control |
|--|-------------|---------------------------|--------|------|-----|--------------------|------|------|---------------|---------|
| Ambient light models (no base reflector) - low-luminance louvre (semi-gloss anodised), uplight ca 10% | | | | | | | | | | |
| 42 617 61 | AP281433Y | AP281433Y T5 1X28W | | G5 | 3,2 | K7 | 1187 | 1100 | | |
| 42 621 44 | AP541433Y | AP541433Y T5 1X54W | | G5 | 3,2 | K7 | 1187 | 1100 | | |
| 42 617 62 | AP351433Y | AP351433Y T5 1X35W | | G5 | 3,9 | K7 | 1487 | 1400 | | |
| 42 621 45 | AP491433Y | AP491433Y T5 1X49W | | G5 | 3,9 | K7 | 1487 | 1400 | | |
| 42 617 63 | AP282433Y | AP282433Y T5 2X28W | | G5 | 3,2 | K5 | 1187 | 1100 | | |
| 42 621 46 | AP542433Y | AP542433Y T5 2X54W | | G5 | 3,2 | K5 | 1187 | 1100 | | |
| 42 617 64 | AP352433Y | AP352433Y T5 2X35W | | G5 | 3,9 | K5 | 1487 | 1400 | | |
| 42 621 47 | AP492433Y | AP492433Y T5 2X49W | | G5 | 3,9 | K5 | 1487 | 1400 | | |
| 42 604 92 | AP281433YED | AP281433YED T5 1X28W DALI | | G5 | 3,2 | K7 | 1187 | 1100 | | DALI |
| 42 605 24 | AP541433YED | AP541433YED T5 1X54W DALI | | G5 | 3,2 | K7 | 1187 | 1100 | | DALI |
| Ambient light models (no base reflector) - low-luminance louvre (semi-gloss anodised), uplight ca 10% | | | | | | | | | | |
| 42 605 00 | AP351433YED | AP351433YED T5 1X35W DALI | | G5 | 3,9 | K7 | 1487 | 1400 | | DALI |
| 42 605 09 | AP491433YED | AP491433YED T5 1X49W DALI | | G5 | 3,9 | K7 | 1487 | 1400 | | DALI |
| 42 604 94 | AP282433YED | AP282433YED T5 2X28W DALI | | G5 | 3,2 | K5 | 1187 | 1100 | | DALI |
| 42 605 28 | AP542433YED | AP542433YED T5 2X54W DALI | | G5 | 3,2 | K5 | 1187 | 1100 | | DALI |
| 42 605 06 | AP352433YED | AP352433YED T5 2X35W DALI | | G5 | 3,9 | K5 | 1487 | 1400 | | DALI |
| 42 605 22 | AP492433YED | AP492433YED T5 2X49W DALI | | G5 | 3,9 | K5 | 1487 | 1400 | | DALI |
| Ambient light models (no base reflector) - low-luminance louvre (matte-anodised), uplight ca 10% | | | | | | | | | | |
| 42 617 65 | AP281431Y | AP281431Y T5 1X28W | | G5 | 3,2 | K8 | 1187 | 1100 | | |
| 42 621 32 | AP541431Y | AP541431Y T5 1X54W | | G5 | 3,2 | K8 | 1187 | 1100 | | |
| 42 617 66 | AP351431Y | AP351431Y T5 1X35W | | G5 | 3,9 | K8 | 1487 | 1400 | | |
| 42 621 33 | AP491431Y | AP491431Y T5 1X49W | | G5 | 3,9 | K8 | 1487 | 1400 | | |
| 42 617 67 | AP282431Y | AP282431Y T5 2X28W | | G5 | 3,2 | K6 | 1187 | 1100 | | |
| 42 621 34 | AP542431Y | AP542431Y T5 2X54W | | G5 | 3,2 | K6 | 1187 | 1100 | | |
| 42 617 68 | AP352431Y | AP352431Y T5 2X35W | | G5 | 3,9 | K6 | 1487 | 1400 | | |
| 42 621 35 | AP492431Y | AP492431Y T5 2X49W | | G5 | 3,9 | K6 | 1487 | 1400 | | |
| Direct/indirect models (no base reflector) - low-luminance louvre (semi-gloss anodised), uplight ca 40% | | | | | | | | | | |
| 42 617 27 | AP281033A | AP281033A T5 1X28W | | G5 | 3,1 | K11 | 1187 | 1100 | | |
| 42 621 48 | AP541033A | AP541033A T5 1X54W | | G5 | 3,1 | K11 | 1187 | 1100 | | |
| 42 617 28 | AP351033A | AP351033A T5 1X35W | | G5 | 3,8 | K11 | 1487 | 1400 | | |
| 42 621 49 | AP491033A | AP491033A T5 1X49W | | G5 | 3,8 | K11 | 1487 | 1400 | | |
| 42 617 29 | AP282033A | AP282033A T5 2X28W | | G5 | 3,1 | K9 | 1187 | 1100 | | |
| 42 621 50 | AP542033A | AP542033A T5 2X54W | | G5 | 3,1 | K9 | 1187 | 1100 | | |
| 42 617 30 | AP352033A | AP352033A T5 2X35W | | G5 | 3,8 | K9 | 1487 | 1400 | | |
| 42 621 51 | AP492033A | AP492033A T5 2X49W | | G5 | 3,8 | K9 | 1487 | 1400 | | |
| 42 076 99 | AP281033AED | AP281033AED T5 1X28W DALI | | G5 | 3,1 | K11 | 1187 | 1100 | | DALI |
| 42 603 15 | AP541033AED | AP541033AED T5 1X54W DALI | | G5 | 3,1 | K11 | 1187 | 1100 | | DALI |
| 42 603 04 | AP351033AED | AP351033AED T5 1X35W DALI | | G5 | 3,8 | K11 | 1487 | 1400 | | DALI |
| 42 603 09 | AP491033AED | AP491033AED T5 1X49W DALI | | G5 | 3,8 | K11 | 1487 | 1400 | | DALI |
| 42 076 22 | AP282033AED | AP282033AED T5 2X28W DALI | | G5 | 3,1 | K9 | 1187 | 1100 | | DALI |
| 42 603 29 | AP542033AED | AP542033AED T5 2X54W DALI | | G5 | 3,1 | K9 | 1187 | 1100 | | DALI |
| 42 603 06 | AP352033AED | AP352033AED T5 2X35W DALI | | G5 | 3,8 | K9 | 1487 | 1400 | | DALI |
| 42 076 32 | AP492033AED | AP492033AED T5 2X49W DALI | | G5 | 3,8 | K9 | 1487 | 1400 | | DALI |
| Direct/indirect models (no base reflector) - low-luminance louvre (matte anodised), uplight ca 40% | | | | | | | | | | |
| 42 617 23 | AP281031A | AP281031A T5 1X28W | | G5 | 3,1 | K12 | 1187 | 1100 | | |
| 42 621 36 | AP541031A | AP541031A T5 1X54W | | G5 | 3,1 | K12 | 1187 | 1100 | | |
| 42 617 24 | AP351031A | AP351031A T5 1X35W | | G5 | 3,8 | K12 | 1487 | 1400 | | |
| 42 621 37 | AP491031A | AP491031A T5 1X49W | | G5 | 3,8 | K12 | 1487 | 1400 | | |
| 42 617 25 | AP282031A | AP282031A T5 2X28W | | G5 | 3,1 | K10 | 1187 | 1100 | | |
| 42 621 38 | AP542031A | AP542031A T5 2X54W | | G5 | 3,1 | K10 | 1187 | 1100 | | |
| 42 617 26 | AP352031A | AP352031A T5 2X35W | | G5 | 3,8 | K10 | 1487 | 1400 | | |
| 42 621 39 | AP492031A | AP492031A T5 2X49W | | G5 | 3,8 | K10 | 1487 | 1400 | | |



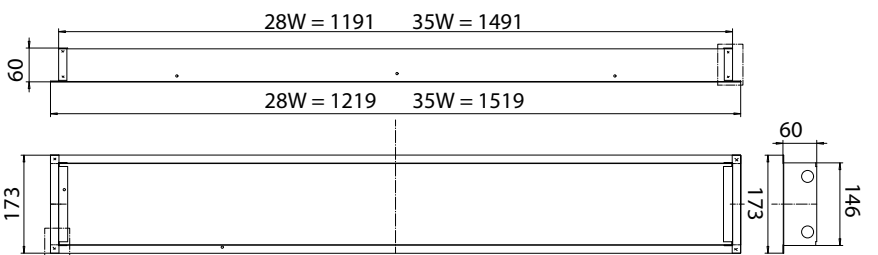
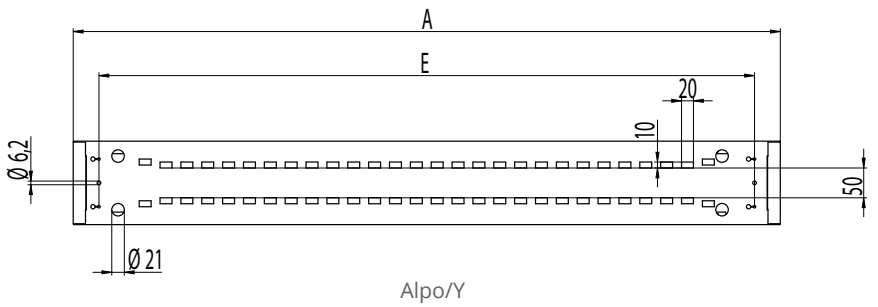
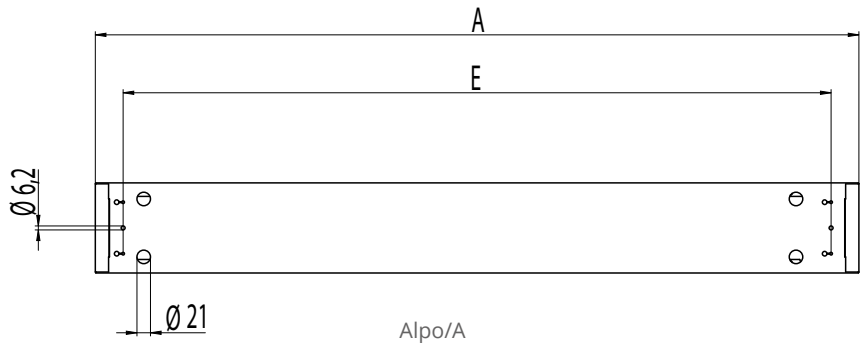
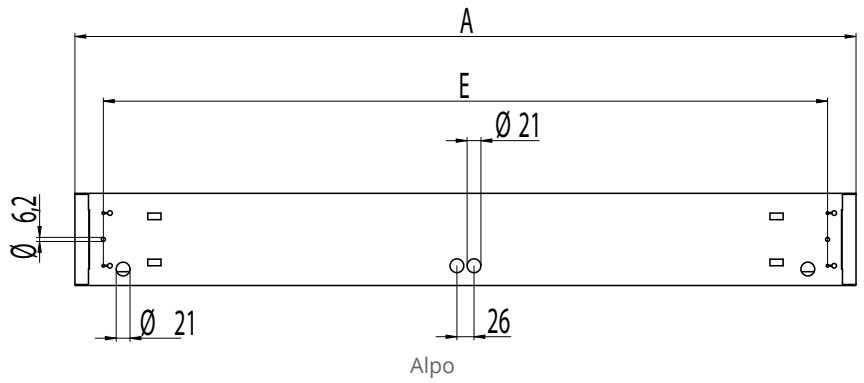
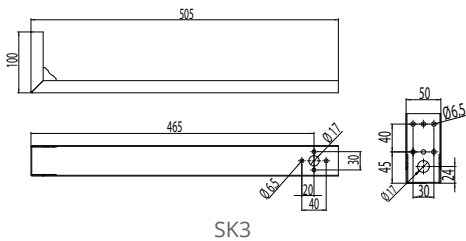
| E number | Type | Product name | Output | Base | Kg | Light distribution | A | E | Luminous flux | Control |
|----------------------------------|-------------|-----------------------------------|---|------|-----|--------------------|------|------|---------------|---------|
| Board luminaires | | | | | | | | | | |
| 42 638 55 | AP281700 | AP281700 T5 1X28W VA | | G5 | 3,2 | K13 | 1187 | 1100 | | |
| 42 638 56 | AP351700 | AP351700 T5 1X35W VA | | G5 | 3,9 | K13 | 1487 | 1400 | | |
| 42 638 57 | AP491700 | AP491700 T5 1X49W VA | | G5 | 3,9 | K13 | 1487 | 1400 | | |
| 42 076 46 | AP281700ED | AP281700ED T5 1X28W DALI | | G5 | 3,2 | K13 | 1187 | 1100 | | DALI |
| 42 605 04 | AP351700ED | AP351700ED T5 1X35W DALI | | G5 | 3,9 | K13 | 1487 | 1400 | | DALI |
| 42 076 49 | AP491700ED | AP491700ED T5 1X49W DALI | | G5 | 3,9 | K13 | 1487 | 1400 | | DALI |
| Mounting accessories | | | | | | | | | | |
| 42 660 60 | RVLX01 | RVLX01 WIRE SUSP.SET 1.5M | susp. wire set 1,5 m with friction locks | | | | | | | |
| 42 660 61 | RVLX02 | RVLX02 WIRE SUSP.SET 1.5M Ø31 | susp. wire set 1,5 m with friction locks, small ceiling cup ø 31 mm | | | | | | | |
| 42 660 62 | RVLX03 | RVLX03 WIRE SUSP.SET 1.5M Ø67 | susp. wire set 1,5 m with friction locks, large ceiling cup ø 67 mm | | | | | | | |
| 42 661 08 | RVLXT25 | RVLXT25 WIRE SUSP.SET T-FRAME | susp. wire set with friction locks for T-frame | | | | | | | |
| 42 653 63 | SK3 | SK3 WALL MOUNT PAIR | wall bracket pair for board luminaire, white | | | | | | | |
| 42 617 53 | UKAP28V-N | UKAP28V RECESSED FRAME 28/54W | recessed frame 28/54W, white | | | | | | | |
| 42 617 54 | UKAP35V-N | UKAP35V RECESSED FRAME 35/49W | recessed frame 35/49W, white | | | | | | | |
| 42 617 55 | UKAP28H | UKAP36V-N RECESSED FRAME 36W | recessed frame 36W, white | | | | | | | |
| 42 617 56 | UKAP35H | UKAP58V-N RECESSED FRAME 58W | recessed frame 58W, white | | | | | | | |
| Ramp mounting accessories | | | | | | | | | | |
| 42 617 58 | RAMPPI/APV | RAMPPI/APV RAMP MOUNTING KIT | ramp mounting kit, white | | | | | | | |
| 42 603 34 | RAMPPI/APLV | RAMPPI/APLV RAMP MOUNTING KIT LED | ramp mounting kit, white | | | | | | | |







End (LED-models without cable entry holes)



Recess frame needs to be mounted to the luminaire before luminaire installation.

