

Atomic TOP LED

Recessed LED luminaire – separate / coupling in lines (dimensional options 1.2 m/1.5 m)

Atomic TOP LED is a luminaire of a new generation characterized by a very good lighting efficiency, which ensures the high comfort of illumination. The luminaire is suitable for lighting in restaurants, shops, hotels, finance houses, offices, classrooms, corridors and stairways. Housing is made of anodized aluminium profile with steel endings. Equipped with frosted acrylic diffuser or micro-prism optic system. The luminaire equipped with a microprismatic diffuser ensures very high efficiency and reduces the glare value of UGR below 19. It provides a very good visual comfort with no glare. It fits perfectly in offices, conference and training rooms, lecture halls as well as exhibition spaces and showrooms.

Available with an emergency LED inverter for emergency usage. Luminaires for separate mounting are available in IP40, luminaires for coupling in lines in IP20.



GENERAL CHARACTERISTICS

Power supply SD Version: 93–265 V_{AC} 50/60 Hz
176–250 V_{DC}

ED Version: 230 V_{AC} ±10 % 50 Hz

Standard EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (photobiological hazard)

Protection grade IP20, IP40

Working temp. -20 °C ÷ +40 °C

Mounting recessed mounting in plaster ceilings SEPARATE (endings are components of the luminaire), recessed mounting in plaster ceilings COUPLING IN LINES (endings to be ordered separately)

Body anodized aluminium profile and steel endings in grey

Diffuser opal or microprismatic optics

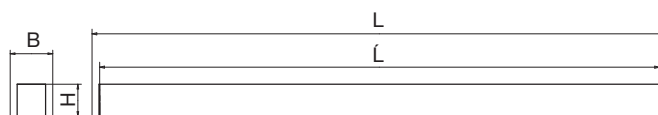
Driver SD Version:
SmartDriver (cos φ ≥ 0.96)
ED Version:
Eco Driver (cos φ ≥ 0.95)

MTBF Control gear** 80 000 h

Luminous flux maintenance** >70 000 h (L80B20)

Colour deviation 3 SDCM

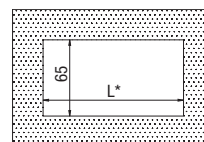
** At environmental reference temperature of 25 °C



Length "L" including endings
Length "L'" profile without endings

Recess hole for SEPARATE mounting

65 × 1155 for version 1.2
65 × 1440 for version 1.5



Recess hole for COUPLING IN LINES

Width of the recess hole is always 65 mm.

L* (length of the recess hole) = L' (length of the profile from table below) * N (number of luminaires) + 8 mm

Example – length of the recess hole for 3 luminaires version 1.2 coupling in lines will be calculated as follows: L* = 1147(L') * 3(N) + 8 = 3449 mm

| W | • Dimensions (mm) • | | | | Weight kg |
|-------|---------------------------|-------------------|----|------|-----------|
| | L' (profile without end.) | L (incl. endings) | B | H | |
| 1.2 m | 1 147 | 1 167 | 77 | 81.5 | 2.8 |
| 1.5 m | 1 432 | 1 452 | 77 | 81.5 | 3.4 |

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the Atomic LED:

Dimming SD 50 %
Device duration +40 %
Luminous efficiency +15 %

Accessories supplied (SD version)

Order code Description

15039 OPTICOM PHOTOSENSOR

Accessories supplied

Order code Description

– 2× HOLDERS for mounting in plaster ceiling

– 2× COUPLER (only for COUPLING IN LINES)

Accessories to be ordered separately

Order code Description

99-0297 END CAP (only for COUPLING IN LINES)

SPECIAL VARIANTS: COLOUR RENDERING ≥90, COLOUR TEMPERATURE ON REQUEST
Contact the Beggelli sales network

Building automation to be ordered separately

Order code Description

20102 BUILDING AUTOMATION CENTRAL UNIT

20124 BUILDING AUTOMATION CENTRAL UNIT WIFI

20104 2 INPUT INTERFACE – RADIO TRANSMITTER

15022 BUILDING AUTOMATION RADIO MODULE

15024 DALI MODULE

15034 1-10V MODULE

EMERGENCY WITH LED INVERTER

19358 INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V to be ordered separately

19359 INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V to be ordered separately

19355 INVERTER LED AT/LG 6W 55V 123H to be ordered separately

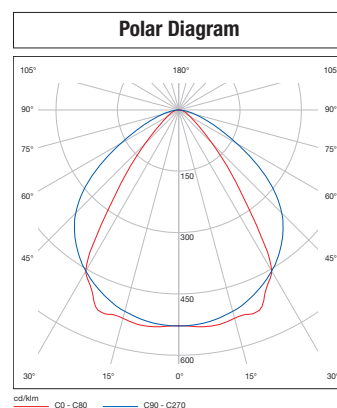
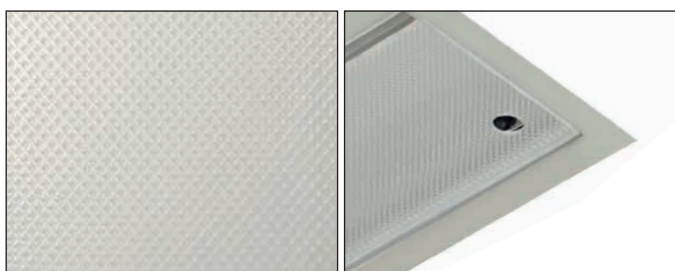
19356 INVERTER LED LGFM 6W 55V 123H to be ordered separately

**DOMOTIC
RADIO
MODULE****1÷10V
MODULE****DALI
MODULE****MODUL
PLUG&LIGHT**

OPTIONAL MODULES TO EXTEND BEGHELLI SD TO RADIO CONTROL OR DALI / 1-10V SYSTEMS AND EMERGENCY

**INTELLIGENT PHOTOSENSOR****1.** Autodimmer
Natural Light**2.** Autodimmer
Dynamic Light**3.** **opticom**
TECHNOLOGYSmartphone Interface
to control and set up system

W – Microprismatic diffuser – UGR<19*



Atomic TOP LED

SmartDriver **SD**

Separate mounting

| Order code | Description | LED Power W | Colour Temp. K | Colour rendering | Power consumption max W | N°LEDs | Flux of LEDs lm (Tj=25°C) | Flux of fixture lm | lm/W | Energy Class | Packaging |
|----------------------|------------------------------|-------------|----------------|------------------|-------------------------|--------|---------------------------|--------------------|------|--------------|-----------|
| A61-10R61CWSD | Atomic TOP LED SD 4000K 1.2m | 19 | 4 000 | >80 | 21 | 96 | 2 600 | 2 400 | 114 | A+ | 1 |
| A61-10R62CWSD | Atomic TOP LED SD 4000K 1.2m | 26 | 4 000 | >80 | 29 | 96 | 3 600 | 3 300 | 114 | A+ | 1 |
| A61-10R63CWSD | Atomic TOP LED SD 4000K 1.5m | 23 | 4 000 | >80 | 26 | 120 | 3 300 | 3 000 | 115 | A+ | 1 |
| A61-10R64CWSD | Atomic TOP LED SD 4000K 1.5m | 31 | 4 000 | >80 | 35 | 120 | 4 400 | 4 000 | 114 | A+ | 1 |

Coupling in lines

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Atomic TOP LED

Eco Driver **ED**

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| A61-10R62CWED | Atomic TOP LED 4000K 1.2m | 25 | 4 000 | >80 | 28 | 96 | 3 500 | 3 200 | 114 | A+ | 1 |
| A61-10R63CWED | Atomic TOP LED 4000K 1.5m | 21 | 4 000 | >80 | 24 | 120 | 3 000 | 2 800 | 117 | A+ | 1 |
| A61-10R64CWED | Atomic TOP LED 4000K 1.5m | 33 | 4 000 | >80 | 36 | 120 | 4 600 | 4 200 | 117 | A+ | 1 |

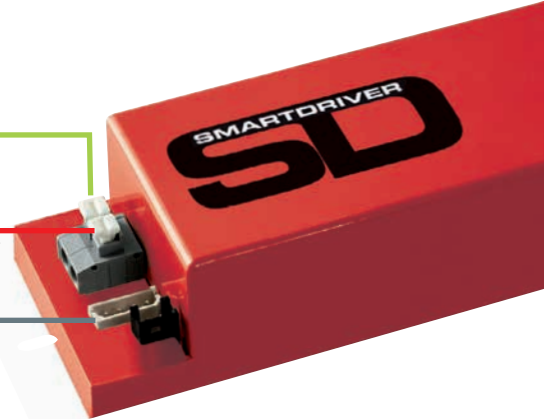
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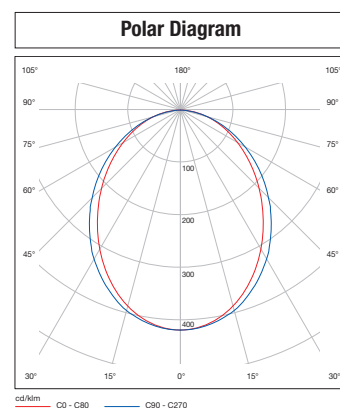
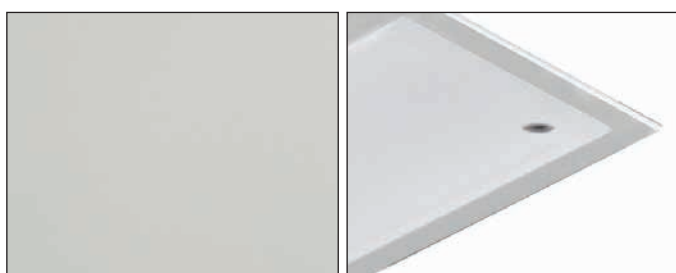
* UGR < 19 is the indicative value of glare as stated by relevant EU-standards chart method for interior application. The real glare value is always given by the actual mutual positions of observer and glare source (luminaire) and concurrently, by actual parameters of the whole lighting system installed. This luminaire glare UGR < 19 is performed just in C90-C270 plane at any situation. In case of a particular project, we can provide Dialux calculation results of actual UGR value(s) in other planes on request.

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Z – Opal diffuser – Homogenous



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SmartDriver **SD**

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| A61-10R61CZSD | Atomic TOP LED SD 4000K 1.2m | 22 | 4 000 | >80 | 25 | 96 | 3 100 | 2 500 | 100 | A+ | 1 |
| A61-10R62CZSD | Atomic TOP LED SD 4000K 1.2m | 31 | 4 000 | >80 | 34 | 96 | 4 300 | 3 400 | 100 | A+ | 1 |
| A61-10R63CZSD | Atomic TOP LED SD 4000K 1.5m | 28 | 4 000 | >80 | 31 | 120 | 4 000 | 3 150 | 102 | A+ | 1 |
| A61-10R64CZSD | Atomic TOP LED SD 4000K 1.5m | 38 | 4 000 | >80 | 42 | 120 | 5 300 | 4 250 | 101 | A+ | 1 |

Coupling in lines

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Atomic TOP LED

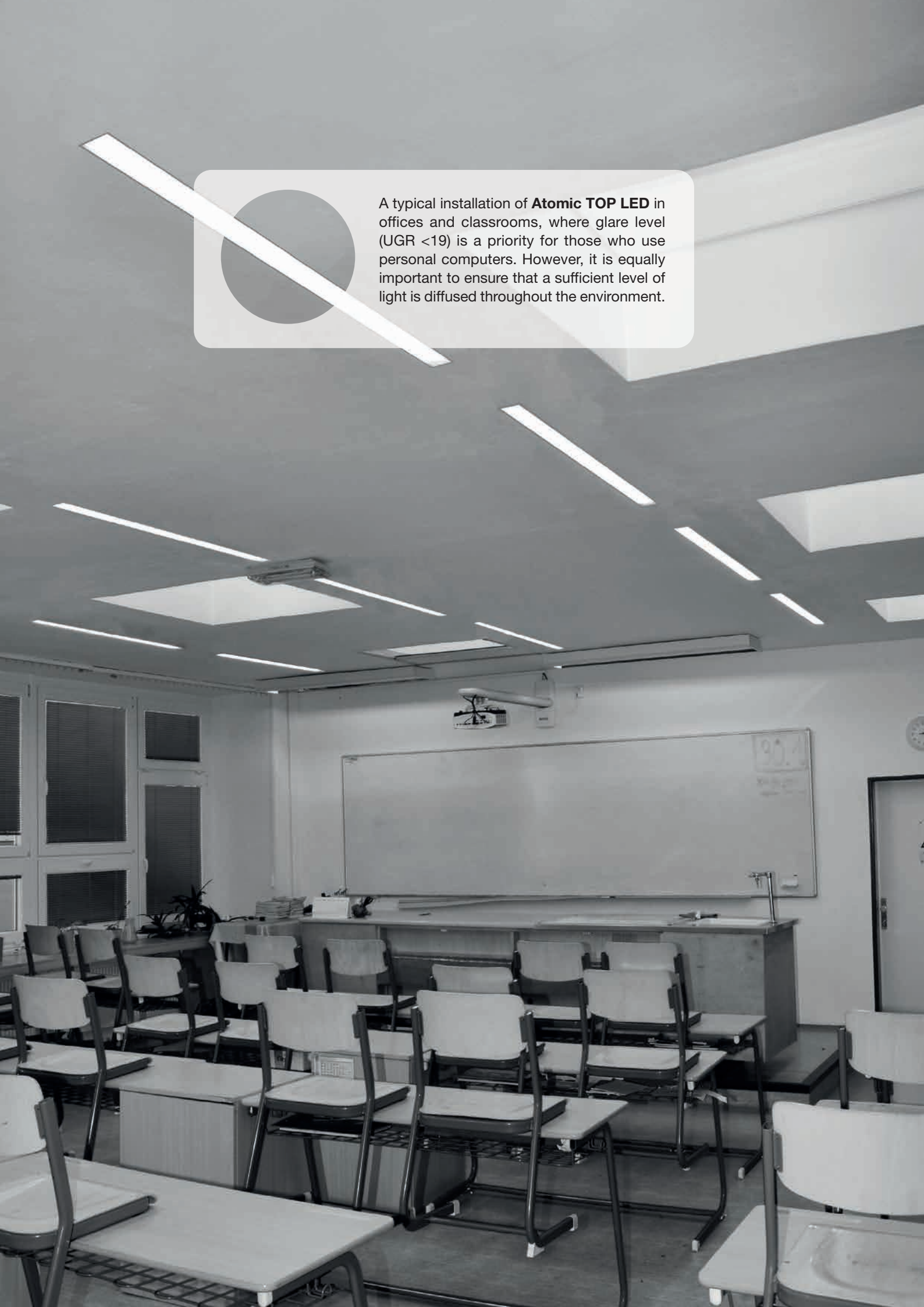
Eco Driver **ED**

Separate mounting

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| A61-10R62CZED | Atomic TOP LED 4000K 1.2m | 33 | 4 000 | >80 | 36 | 96 | 4 600 | 3 650 | 101 | A+ | 1 |
| A61-10R63CZED | Atomic TOP LED 4000K 1.5m | 29 | 4 000 | >80 | 32 | 120 | 4 000 | 3 200 | 100 | A+ | 1 |
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| A61-10R62PCZED | Atomic TOP LED 4000K 1.2m | 33 | 4 000 | >80 | 36 | 96 | 4 600 | 3 650 | 101 | A+ | 1 |



A typical installation of **Atomic TOP LED** in offices and classrooms, where glare level (UGR <math><19</math>) is a priority for those who use personal computers. However, it is equally important to ensure that a sufficient level of light is diffused throughout the environment.