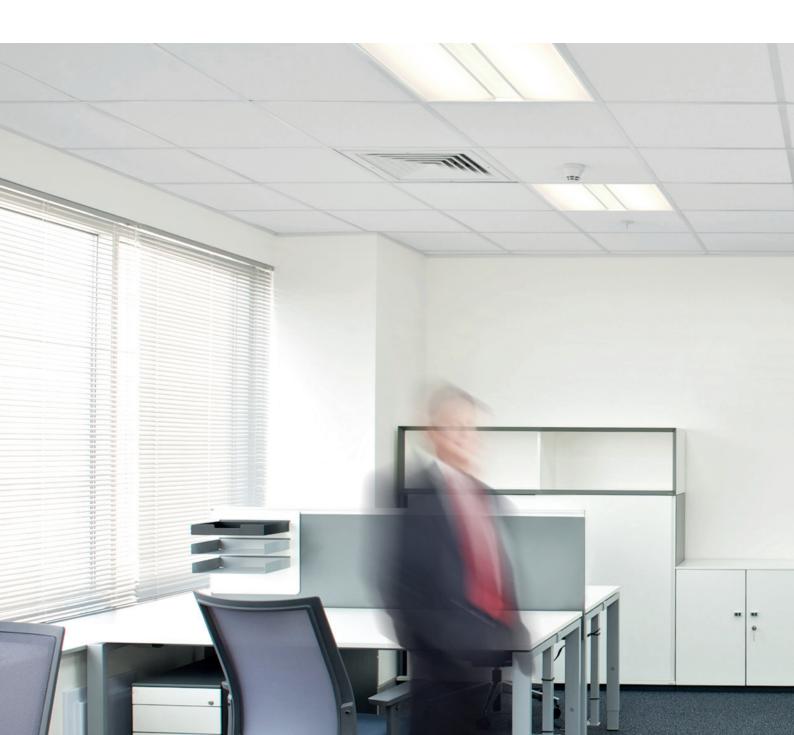
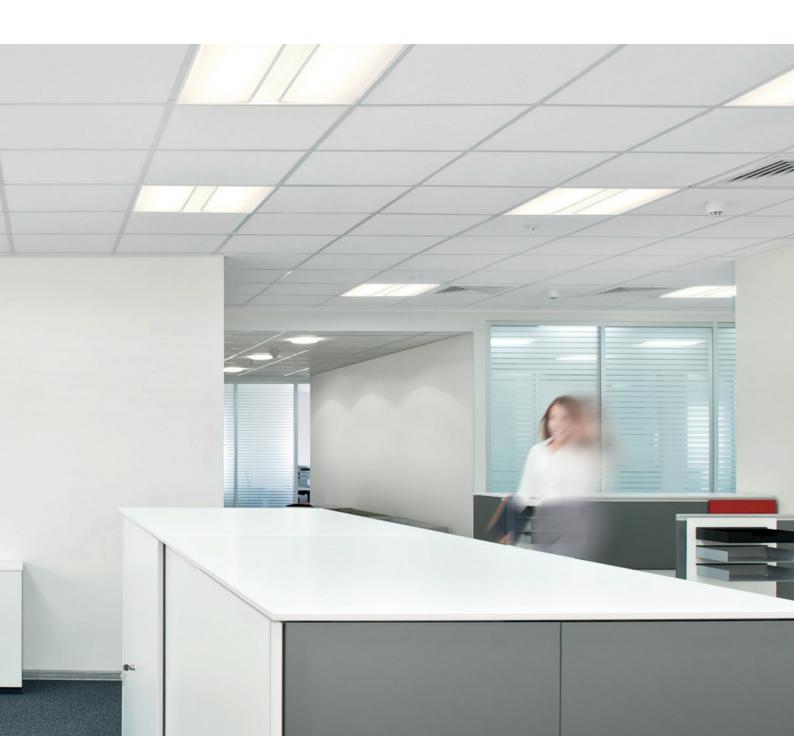




## MINIMALISTIC AND CONTEMPORARY STYLE



CLOUD range was developed to achieve a superior light quality in any space, such as offices, classrooms, meeting rooms or auditoriums. CLOUD offers perfect lighting distribution with no unpleasant shadow effect on walls, that combined with daylight colour temperatures provides a superb light quality. CLOUD LED it's one of the best recessed luminaires with high LOR, up to 100 lm/w efficiency and UGR<19 according with EN12464-1 to working places.



### **BLINE TECHNOLOGY**

4 CLOUD range

# BLINE TECHNOLOGY

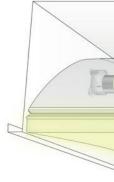


The LED version total system efficiency goes up to 100lm/W and combined with LOR up to 75%. We use the latest LED technology thereby our luminaire offers CRI >80, 50.000h life (L80F10) and a a chromaticity tolerance MacAdam 3 SDCM colour stability, which makes CLOUD LED the perfect choice for office lighting. The optical technology BLINE was developed to reduce glare without compromising uniformity and light quality, according to EN12464-1 UGR<19 for office lighting.



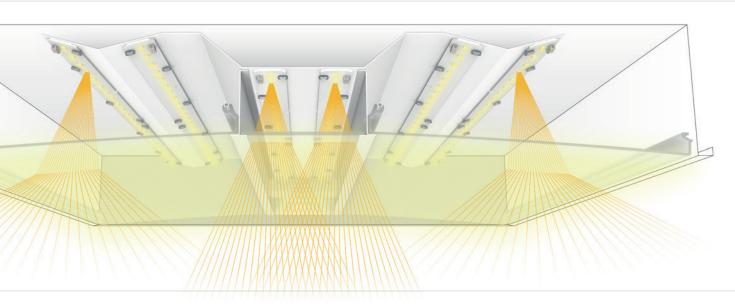
# T5 / TC-L

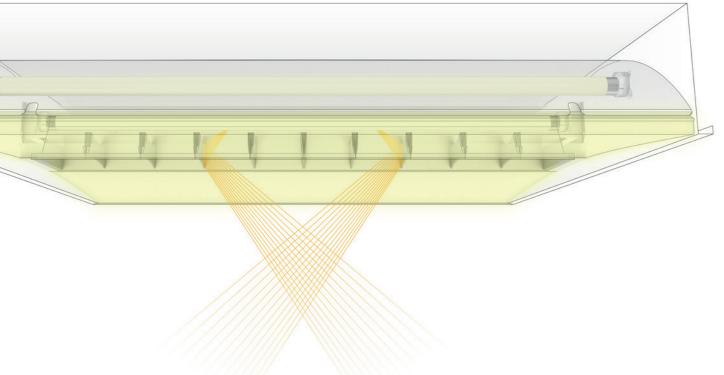
The optic of T5/TC-L versions was developed and designed to achieve up to 62lm/w and LOR up to 81%. With our high performance microprismatic diffuser or our aluminium louvres you can achieve perfect wall uniformity and a glare-free application. Compliance with EN12464-1 can be reached depending on the lamp configuration.





CLOUD range exceed all expectations with high performance and a gentle homogeneous light due to internal design and highly advanced optical technology. The side diffuser BLINE is manufactured from a complex polycarbonate material that diverts light through all optic delivering an extremely diffuse and homogeneous light.





CLOUD range 6

# PERFORMANCE AND WELL-BEING

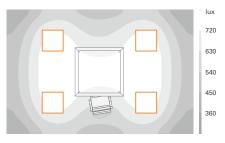
CLOUD range offers performance and wellbeing to people. High quality BLINE diffuser gives homogeneous light distribution in rooms, providing daylight quality and glare free applications in all angles. The light uniformity conveys well-being to people during all day.

#### CLOUD LED



#### CLOUD LED 4x14W DAM

LED: 4 x 14W SPACING: 5,4m x 3,6m CEILING HEIGHT: 2,8m MAINTENANCE: 0,8 REFLECTANCE: 20/70/50 WORKING PLANE: 0,8m ILLUMINANCE: 622 lux

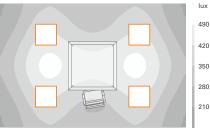


#### **CONVENCIONAL T8 LUMINAIRE WITH LOUVRE**



#### 4x18W Louvre

LAMP: 4 x 18W SPACING: 5,4m x 3,6m CEILING HEIGHT: 2,8m MAINTENANCE: 0,8 REFLECTANCE: 20/70/50 WORKING PLANE: 0,8m ILLUMINANCE: 359 lux

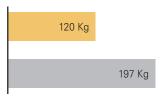


### ENERGY EFFICIENCY AND LOW CARBON FOOTPRINT

#### ENERGY CONSUMPTION (kWh/m<sup>2</sup> per year)



#### CO2 EMISSION (Kg per year)



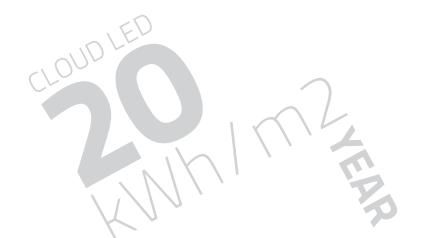
#### FEATURES COMPARISON

CLOUD LED luminaires 4x CLOUD LED 4x14W. Illuminance: 622 lux. Lm/W of each luminaire: 100Lm/W.

Convencional T8 luminaire with louvre 4x T8 luminaire 4x18W Illuminance: 359 lux Lm/W of each luminaire: 48 Lm/W

Calculation period 1 year

CLOUD LED CONVENCIONAL T8 LUMINAIRE WITH LOUVRE



8 CLOUD range

### CONTROLLED GLARE

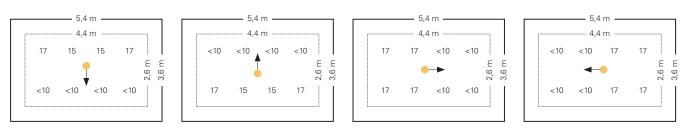
CLOUD range reduces the sensation produced by bright areas within the field of view, usually known as glare. In order to avoid errors, fatigue and accidents in indoor work places we developed the CLOUD range to meet discomfort glare limits specified in the EN12464-1.

#### LED VERSION | CLOUD LED 4x14W DAM



UGR = 15 on the observer eye level UGR ≤ 17 in any part of the room at 1,2m height A - OBSERVER EYE LEVEL

#### UGR SURFACE CALCULATION INSIDE THE ROOM



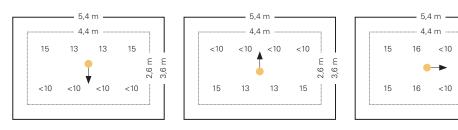
CLOUD range is suitable for indoor work places with Display Screen Equipment (DSE) including VDUs . With CLOUD range the lighting for the DSE work stations is appropriate for all tasks performed at the work station, such as, reading from screen, printed text, writing on paper, keyboard work.

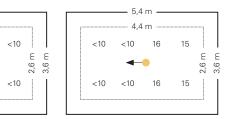
#### FLUORESCENT (T5) VERSION | CLOUD 4x14W PB



UGR = 13 on the observer eye level UGR ≤ 16 in any part of the room at 1,2m height A - OBSERVER EYE LEVEL

#### UGR SURFACE CALCULATION INSIDE THE ROOM





### **OPTICAL RANGE**

10 CLOUD range

### AESTHETICS AND OPTICAL ARRANGEMENTS

CLOUD range offers a wide range of optical solutions. On the sides BLINE technology with micro-polymers to diffuse light and central optics such as DAM, DOP, PB or PM to comply with lighting of indoor workplace requirements.



#### MICROPRISMATIC DIFFUSER

Choose microprismatc diffuser (DAM) with the latest micro-pyramidal technology where you can match modern design with maximum energy efficiency. The DAM diffuser uses the latest optical technology to divert light into the correct place allowing high LOR and UGR<19 to comply with EN 12464-1 lighting of work places.



#### POLISHED DOUBLE PARABOLIC LOUVRE

Choose polished double parabolic louvre (PB) for an exceptional performance, high efficiency and glare-free applications. The 99.85% pure aluminium used on this louvre allow us to have high LOR, keeping with the EN12464-1 standards for workplace lighting.



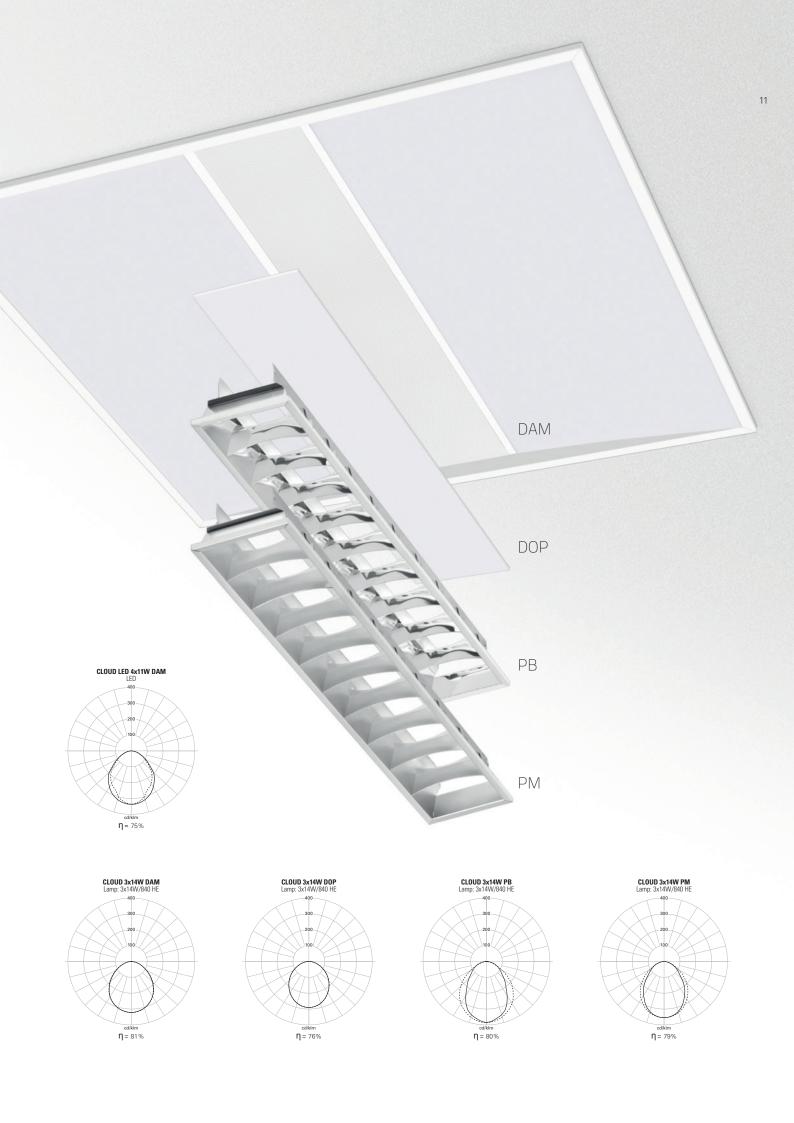
#### OPAL POLYCARBONATE DIFFUSER

Choose opal polycarbonate diffuser (DOP) for modern style and low maintenance cost.



#### SATIN DOUBLE PARABOLIC LOUVRE

Choose satin double parabolic louvre (PM) for an exceptional performance, high efficiency and glare-free applications. The satin aluminium used avoids interference reflections in the reflector, keeping with the EN12464-1 standards for workplace lighting.



### **FEATURES / COMPONENTS**

12 CLOUD range

### WIDE RANGE OF OPTIONS

CLOUD range provide a huge variety of options, such as LED or fluorescent light source, DALI dimming and emergency unit.

e 3)

#### LED VERSION

The use of the latest LED technology on CLOUD LED allow us to have high LED standards, such as CRI >80, 50.000h life (L80F10) and a MacAdam 3 SDCM colour stability, which makes CLOUD LED the perfect choice for office lighting. The LED version is supplied with 4000K but you can have 3000K as optional.

#### DSI/DALI DIMMING

Smart buildings demand smart solutions such as DSI or DALI dimming where you can combine optimum lighting quality with maximum energy saving potential.

#### AIR HANDLING

Air handling option can provide 20~40lts/s.

#### **T5 AND TC-L VERSION**

The luminaire for fluorencest lamps can be supplied with BLINE on the sides and DAM/DOP diffuser or PB/PM reflector on the main optic cell.

#### **EMERGENCY UNIT**

CLOUD range offers 1 or 3 hours emergency units either for LED or T5/TC-L versions. The LED version provides sufficient orientation light, allowing escape routes or obstacles visible. This option reduces the added cost of other emergency lighting systems. CLOUD LED offers efficient emergency lighting with low power consumption.

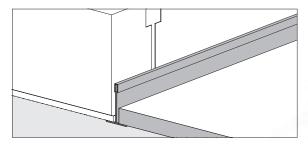
### **TYPES OF CEILING**

14 CLOUD range

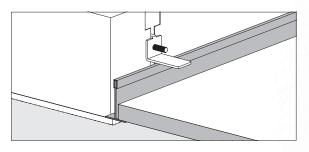
## SUITABLE SOLUTION FOR ANY INSTALLATION

CLOUD range is suitable for a wide range of modular metal ceilings available on the market. Other type of ceilings can be done under request.

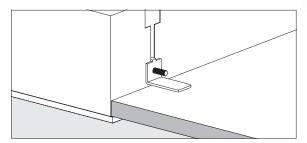
#### 15/24mm LAY-IN



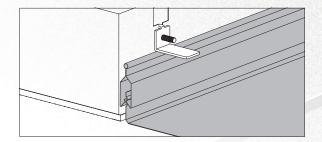
#### 15/24mm PULL-UP

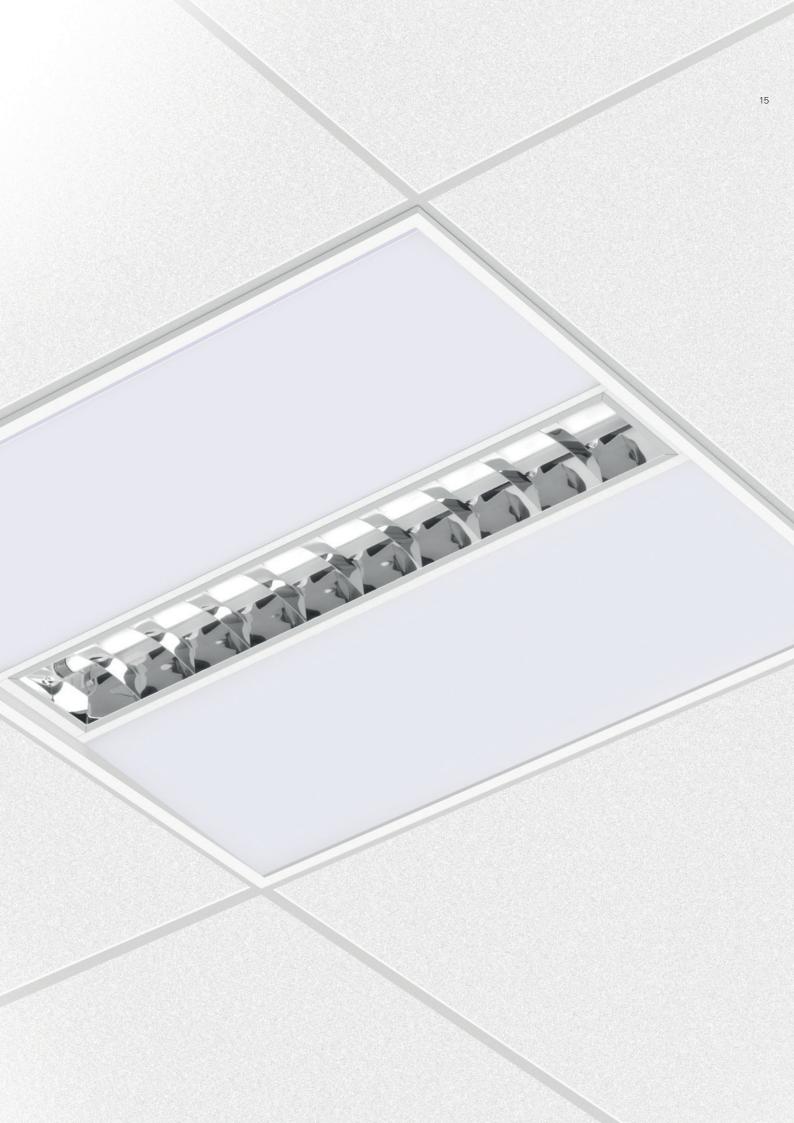


#### WITH BRACKETS FOR PLASTERBOARD CEILINGS



SAS 150 154





### INSTALLATION/MAINTENANCE

16 CLOUD range

# EASY LAMP REPLACEMENT

The BLINE diffuser was developed with a CLIP-IN system to allow an easy lamp replacement.



2. Install/Replace lamps



**3.** Push the side diffuser against luminaire body until listen "CLICK"



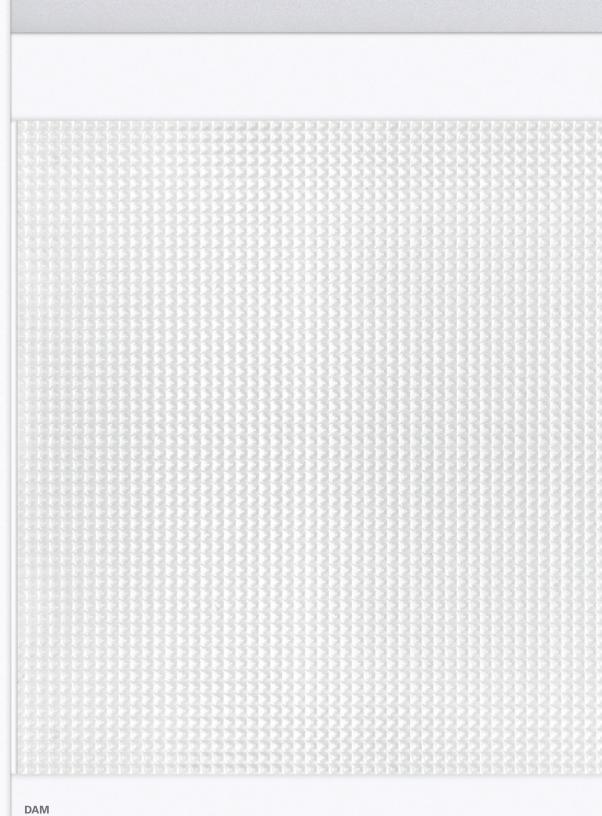


# PLUG&PLAY CONNECTORS AND SENSORS

During development of CLOUD range we took in consideration the installation and maintenance issues. An easy and quick installation was our gold, either for LED or fluorescent versions.







MICROPRISMATIC DIFFUSER

#### **INDELAGUE GROUP**

#### HEADQUARTERS

INDÚSTŘIA ELÉTRICA DE ÁGUEDA S.A. Rua da Mina 465 | Covão Zona industrial EN1 Norte Apartado 106 / 3754-909 3750-792 Trofa ÁGUEDA | PORTUGAL GPS. 40° 36' 00.54" N | 8° 27' 11.76" W T. +351 234 612 310 | F. +351 234 624 058 WWW.INDELAGUE.COM

#### UNITED KINGDOM

ROXO LIGHTING LIMITED roxo.london@roxolighting.com WWW.ROXOLIGHTING.COM

#### SPAIN

INDELAGUE ESPAÑA, S.L. Avenida del Ejército, nº 8 - 1°C C.P. 15006 | A CORUÑA | ESPAÑA comercial@indelague.com WWW.INDELAGUE.COM

All data contained in this brochure does not constitute any compromise to INDELAGUE Group. The company itself, reserves the right to change or modify any technical information stated without prior notice. The reproduction of this brochure or any part of it is prohibited. Electrical/Optical data are subjected to a tolerance of +/-10%.