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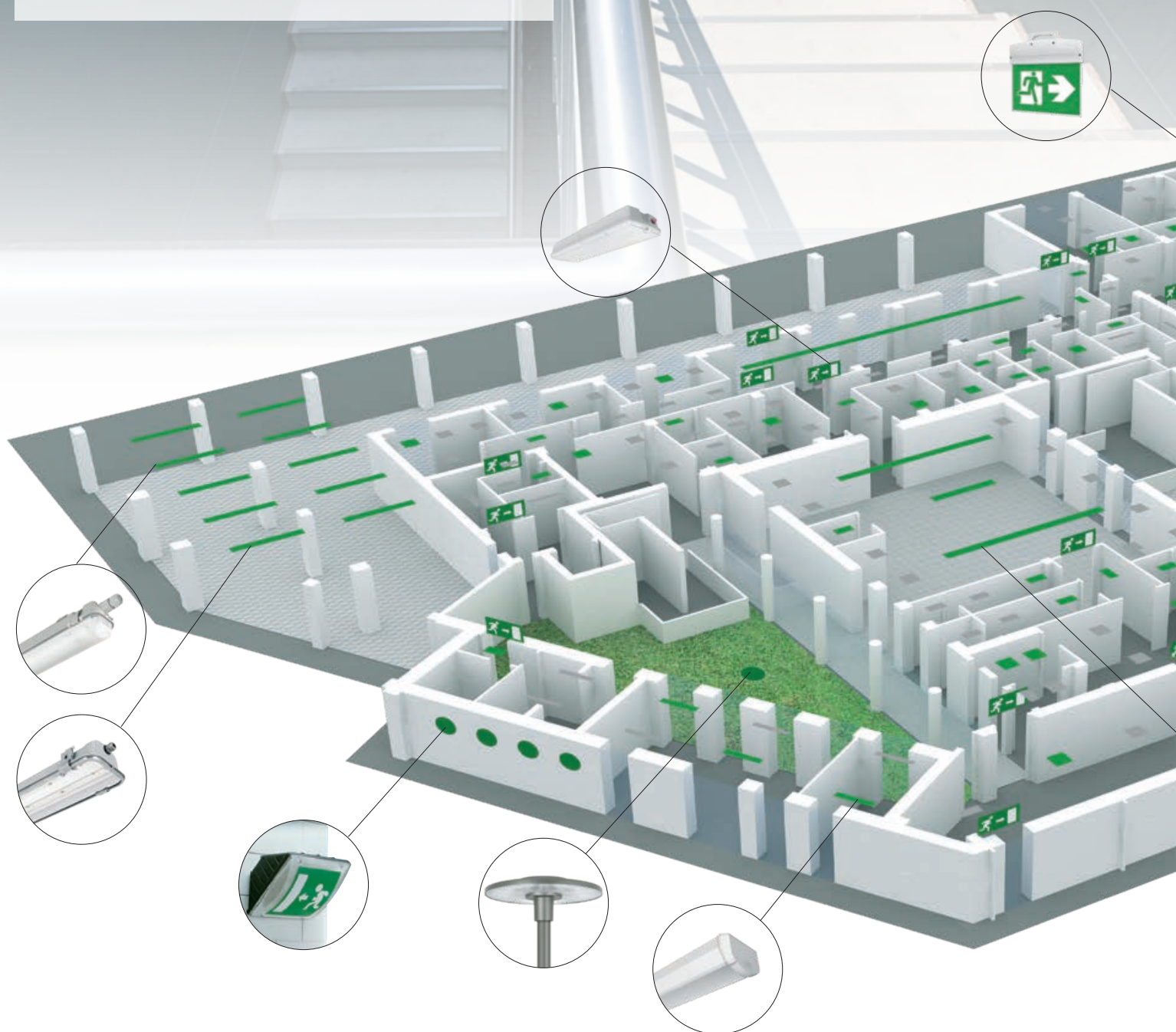


Fosnova

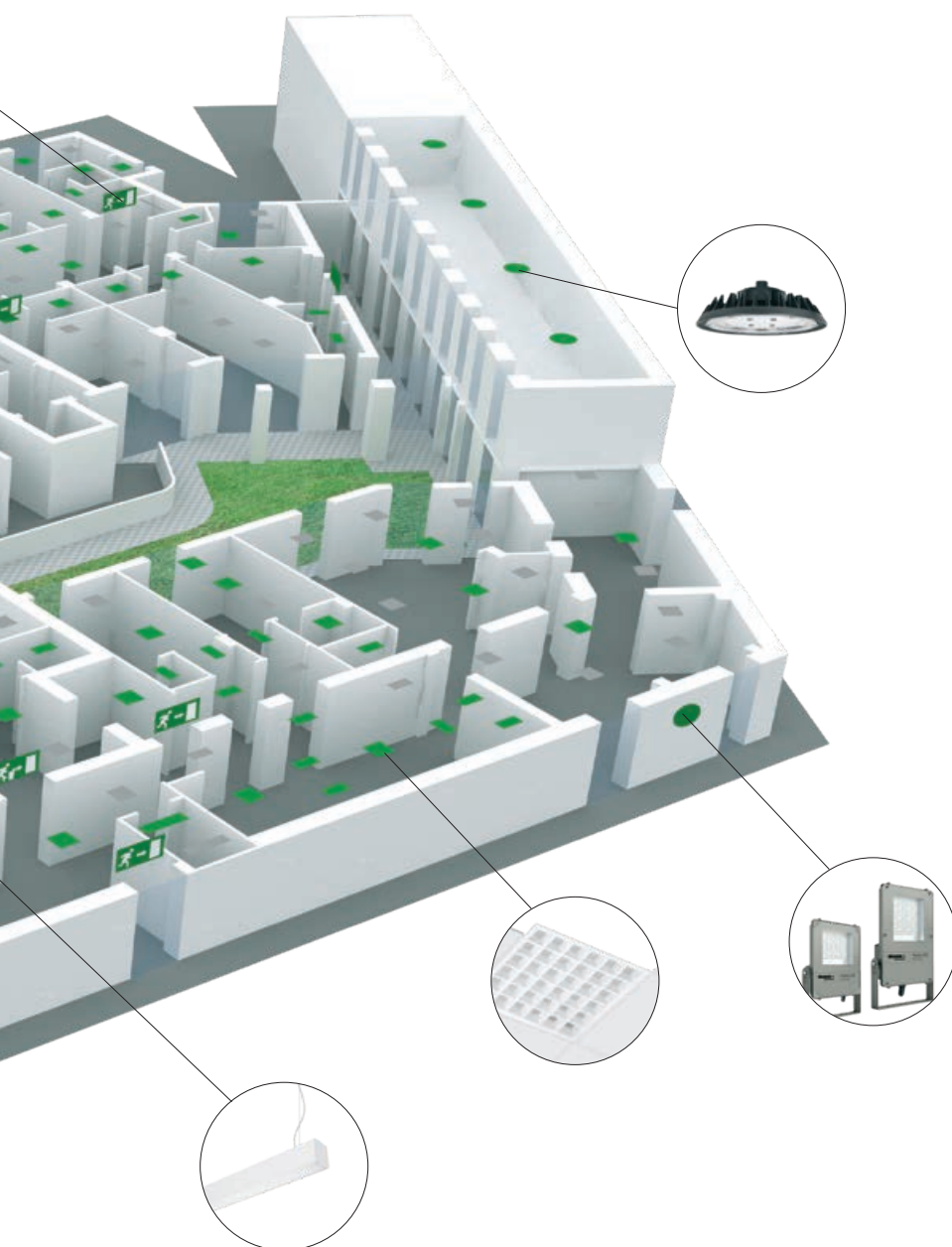
A selection of EMergency
lighting solutions

M A D E I N I T A L Y

EMergency lighting solutions



Emergency lighting is an essential safety system to ensure the protection of people during emergency situations. People who are left in the dark during power outages or block-outs, especially in crowded places or during a catastrophic event, will feel uneasy, hence increasing the risk of getting hurt because uneasiness can easily turn into panic. Therefore, an efficient emergency lighting system is an essential requirement to guarantee a safe and fast evacuation during emergencies. If this system is designed in compliance with existing laws and regulations, it will provide the necessary aid that, together with adequate safety signals, will ensure a smooth evacuation from the premises.



EM S.A. (Maintained): during a blackout, the luminaire connected to the emergency circuit stays on, preventing any inconvenience caused by the sudden loss of lighting. It offers an autonomy of 60/180 minutes. The battery automatically recharges once the power is restored.



EM S.E. (Only EMergency): during of a blackout, the luminaire connected to the emergency circuit will switch on, preventing any inconvenience caused by the sudden loss of lighting. It offers an autonomy of 60/180 minutes. The battery automatically recharges once the power is restored.

EMergency lighting

Back-up lighting

designed for workplaces with potentially hazardous situations. In the event of power outages, it serves as "general lighting" for limited periods of time, so that work activities can be terminated, and premises can be evacuated safely.



Safety lighting

designed to provide minimum light levels to avoid panic and dangerous situations. Escape routes and exit signage must be easily recognisable and visible enough to allow people to escape safely from any location.



Anti-panic lighting

to mitigate panic during a blackout and effectively guide people to safety routes.

Escape route lighting

to highlight emergency escape routes and ensure a safe evacuation accurately and clearly.

Safety lighting

for workplaces where potentially work hazards exist (*lights must turn on with a maximum delay of 0.5 seconds, providing at least 10% of the required illuminance for the task being performed or reaching a minimum of 15 lux*)

Info - pictographs



Fixtures wired with PUSH DALI digital dimmable electronic power supply.



Life expectancy of the LED.



Class II fixture (double insulation). No grounding needed.



Fixture surface area exposed to the wind.



Minimum and maximum operating temperature. Ask for specific product temperature to our technical offices.



Size of hole for recessed installation



Radial dark light optic unit 65° manufactured according to European EN 12464 Regulations. Suitable for uses in places fitted with video terminals



Produced with vandal resistant materials.



UV-stabilised coating, anti-yellowing. Fixture built with stabilised materials.



Built with materials that are highly resistant to acid and toxic gas corrosion.



Electronic safety device to protect the LED module and the related ballast compliant with EN 61547.

It works in two modes:

- differential mode: surge between power cables and between the phase and neutral.
- common mode: surge between power, L/N and ground cables or between the fixture's body if it is of class II and installed on a metal pole.



Product with a very low flicker; uniform light for greater eye protection.



Risk Group 0 (RG0): luminaires are exempt from photobiological risks in compliance with standard EN 62471.



Products compliant with ball impact resistance test standard DIN 18032-3: 2018.



WATERPROOF FIXTURES Fixture enclosures are in polycarbonate and keep their IP65/66 waterproof rating if installed, used and maintained in compliance with technical specifications (particularly operating voltage and temperature), as well as with the supplied instructions and applicable standards. Exposure to direct sunlight may heat up the fixture to 45°C compromising the degree of protection. It is advisable to use fixtures properly without altering mechanical properties and protection rating (IP65/IP66); **do not install on surfaces subject to strong vibrations, outdoors on hanging cables, or on walls under metallic grates, or on poles, and in any case, never expose the fixture to direct sunlight.** Otherwise, use watertight fixtures in steel.

Check the compatibility between the material constituting the product and the space where it will be installed

| | | EM S.A. | EM S.E. | + KIT EM | + BOX EM | -95 ED | -0066 AD | -0050 EM-EC | EM TEST | |
|--|--------------------------------------|------------|------------|-------------|-------------|-----------|-------------|----------------|------------|----|
|  | Creta UGR<17 | | | ✓ | | ✓ | ✓ | ✓ | | 8 |
|  | Pannello B DIP SWITCH | | | ✓ | | | ✓ | ✓ | | 10 |
|  | PanelTech UGR<19 DIP SWITCH | | | ✓ | | | ✓ | ✓ | | 12 |
|  | PanelTech HE UGR<19 | | | ✓ | | ✓ | ✓ | ✓ | | 14 |
|  | Compact Dark UGR<19 DIP SWITCH | | | ✓ | | ✓ | ✓ | ✓ | | 16 |
|  | Compact CRI 95 DIP SWITCH | | | ✓ | | | ✓ | ✓ | | 17 |
|  | Health Dark UGR<19 DIP SWITCH | | | ✓ | | | ✓ | ✓ | | 18 |
|  | Disanlens | ✓ | | | | | ✓ | ✓ | | 20 |
|  | Disanlens UGR<19 | ✓ | | | | ✓ | ✓ | ✓ | | 21 |
|  | Madrid | ✓ | | | | | | ✓ | | 22 |
|  | Oblò J 2.0 | ✓ | | | | | | ✓ | | 24 |
|  | Tortuga | ✓ | | | | | | ✓ | | 25 |
|  | Safety 2.0 | ✓ | ✓ | | | | | | ✓ | 26 |
|  | Safety Flag | ✓ | | | | | | | | 27 |
|  | Echo | ✓ | | | | ✓ | ✓ | ✓ | | 28 |
|  | Forma ATEX | | | | | | | ✓ | | 29 |
|  | Astro Q UGR<22 UGR<25 | | | | | | | ✓ | | 30 |
|  | Saturno | | | | ✓ | | | | | 32 |
|  | Rodio | ✓ | | | | | | | | 33 |
|  | Vega | ✓ | | | | | | | | 34 |
|  | Ischia | ✓ | | | | | | | | 35 |

Safety factor is crucial in designing a good EMergency lighting system

Therefore, any obstacle within two metres above ground level must be illuminated, ensuring there is no risk of bumping or tripping due to insufficient lighting conditions. Emergency lights and signage should be installed at a minimum height of two metres above ground level to ensure visibility even in crowded rooms. In cases where the emergency exit is not immediately visible, an illuminated sign should be installed to indicate the correct direction and evacuation route.

For emergency lighting, we provide four practical and cost-effective solutions to fulfil various needs:



EM Basic



EM EDali



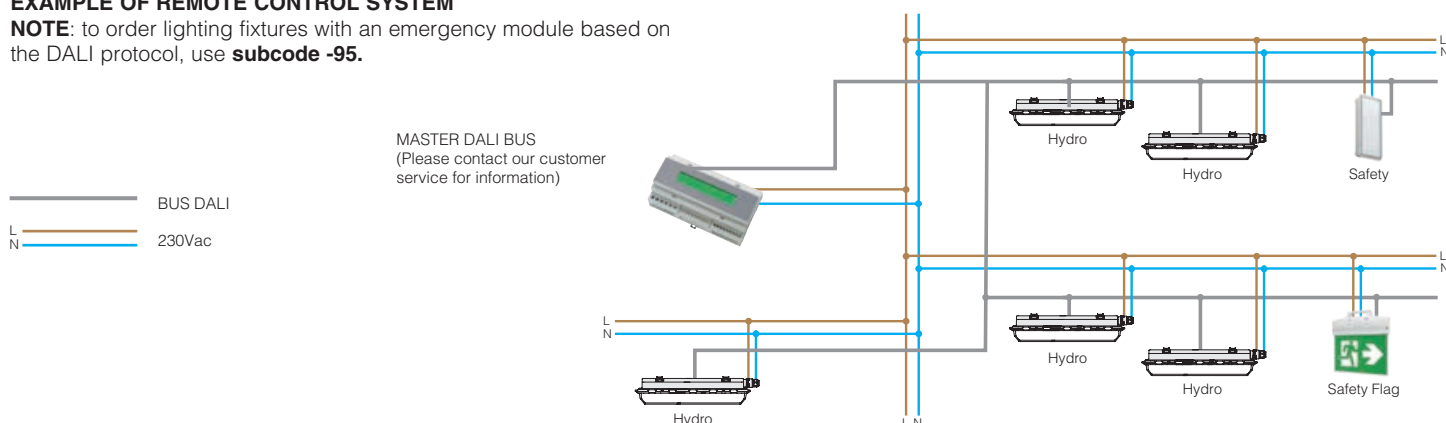
EM Self-Diagnosis



EM Centralised

EXAMPLE OF REMOTE CONTROL SYSTEM

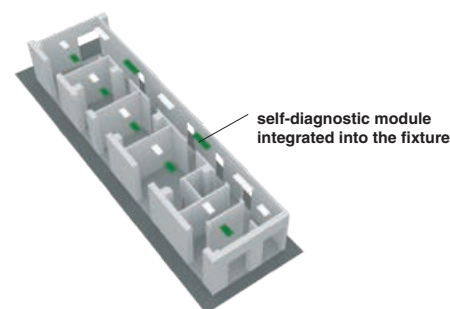
NOTE: to order lighting fixtures with an emergency module based on the DALI protocol, use **subcode -95**.



EXAMPLE OF LOCALISED SELF-DIAGNOSTIC LIGHTS

A localised self-diagnostic system uses an integrated module that monitors the operation of the emergency light on each individual lighting fixture. This function is recommended for use in small simple rooms, and an accessory component is to be used on each single fixture.

NOTE: to order lighting fixtures with the self-diagnostic module use **subcode -0066**.



Autonomy

The autonomy of emergency luminaires is governed by IEC standards and guidelines. Emergency luminaires typically ensure continuity for 1 or 1.5 h intervals, depending on their use within the rooms they are installed. While some products declare an autonomy of up to 3 hours or more, the aging of batteries can compromise their ability to meet these declared specifications. In such cases, replacing old batteries becomes necessary. It is recommended to perform a complete battery discharge and recharge cycle at least once every three months to ensure optimal system efficiency.

Recharge

The product standard specifies a charging time of either 12 or 24 hours, which is necessary to recharge the battery and ensure devices maintain their nominal range.

1h = 24h

3h = 24h (or a 12-hour charging period for 1.5 h of autonomy)

EM Basic: S.A. -07



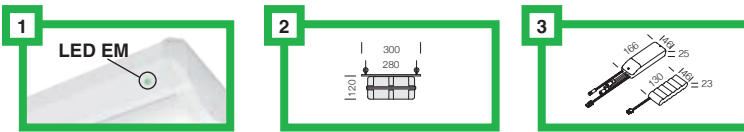
During a blackout, emergency lights ensure practical and safe operation, preventing any inconvenience caused by the sudden loss of lighting. They can be divided in:

- 1) luminaires with built-in emergency module: **subcode -07**
- 2) luminaires with external emergency module: **subcode -07 + acc. 1175**
- 3) luminaires with external emergency module, standard version -00 + **acc. 600** emergency kit
 - When the battery is charging, the power consumption (W tot) will exceed 3 watts.
 - During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 Watt.

EM Basic: flux percentage (lm) in the EM version
only with kit

| W tot | 1h | 3h | W tot | 1h | 3h | W tot | 1h | 3h |
|-------|-----|-----|-------|-----|----|-------|-----|----|
| 5 | 84% | 35% | 21 | 20% | 8% | 37 | 11% | 5% |
| 6 | 69% | 29% | 22 | 19% | 8% | 38 | 11% | 4% |
| 7 | 59% | 25% | 23 | 18% | 7% | 39 | 11% | 4% |
| 8 | 52% | 22% | 24 | 17% | 7% | 40 | 10% | 4% |
| 9 | 46% | 19% | 25 | 16% | 7% | 41 | 10% | 4% |
| 10 | 41% | 17% | 26 | 16% | 7% | 42 | 10% | 4% |
| 11 | 38% | 16% | 27 | 15% | 6% | 43 | 10% | 4% |
| 12 | 34% | 14% | 28 | 15% | 6% | 44 | 9% | 4% |
| 13 | 32% | 13% | 29 | 14% | 6% | 45 | 9% | 4% |
| 14 | 29% | 12% | 30 | 14% | 6% | 46 | 9% | 4% |
| 15 | 27% | 11% | 31 | 13% | 6% | 47 | 9% | 4% |
| 16 | 26% | 11% | 32 | 13% | 5% | 48 | 9% | 4% |
| 17 | 24% | 10% | 33 | 12% | 5% | 49 | 8% | 3% |
| 18 | 23% | 10% | 34 | 12% | 5% | 50 | 8% | 3% |
| 19 | 22% | 9% | 35 | 12% | 5% | | | |
| 20 | 21% | 9% | 36 | 11% | 5% | | | |

When the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 Watt.



EM EDali -95



Luminaires with **subcode -95** are available with an emergency system featuring the standard DALI protocol (inverter only), compliant with EN 62386-202 and compatible with all advanced centralised control systems. The biggest advantage of using the DALI protocol in emergency lighting lies in its capability to control both general and emergency lights using a single busbar. This simplifies both the wiring of the system (busbar) and the programming of the entire lighting installation.

NOTE: the -95 equipped product will remain ON-OFF and not DALI dimmable (order with subcode 9541).

ADVANTAGES:

- control of the status of the lighting source (lamp or LED module)
- control of the emergency battery
- functional and/or autonomy tests conducted on the luminaire, groups of luminaires, or the entire system
- control of the light intensity on Only EMERGENCY (SE) and Always On (SA)

EM Self-Diagnosis -0066



Most emergency ceiling lights can be equipped with a local self-diagnostic system by adding **subcode -0066** to the product's ordinary code when ordering. The self-diagnosis module is equipped with an advanced microprocessor device, enabling it to perform various checks automatically and autonomously at certain time periods.

The module performs two types of tests at different periodic intervals:

- 1) **functionality test:** a short test is conducted automatically to verify the luminaire's operation.
- 2) **battery duration test:** automatically checks the battery's life by turning on the lamp for the pre-set interval. All signage is handled by one single tri-colour V-G-R LED, which indicates the kit's various operating statuses.

EM Centralised -0050



With emergency wiring with centralised power supply CLD EC sub-code -0050: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (not incorporated into the luminaire).

RECOMMENDED INSTALLATIONS:

- environments with very high ceilings (warehouses, distribution centres, hubs, etc.)
- environments where maintenance may be difficult (indoor swimming pools)
- large or multi-storey facilities where remote control is preferred (offices, hospitals, public places)



MAINTENANCE DOES NOT REQUIRE THE USE OF SPECIAL MACHINERY



MAINTENANCE CAN BE DONE DIRECTLY IN THE ELECTRICAL PANEL



REMOTE VERIFICATIONS CAN BE CONDUCTED



Creta

Creta is the new recessed LED **backlighting** ceiling fixture that opens up a whole different way of thinking about artificial lighting; it offers a very bright and diffused lighting, while keeping energy consumptions extremely low and setting itself as the ideal solution for general and functional lighting applications

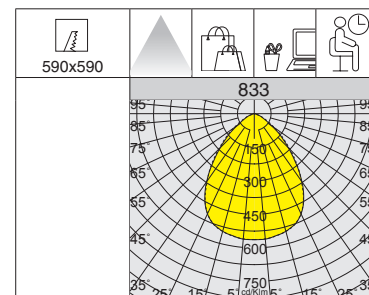
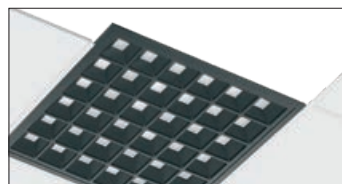
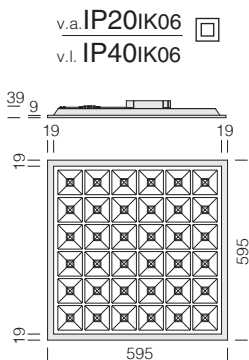
Housing and frame: housing in galvanised steel sheet, and frame in aluminium, contact mounting on the cross T structure.

Optics: secondary lenses in PMMA with high transparency and non-yellowing properties.

UGR glare index: UGR<17 - EN 12464.

Wiring: rapid wiring connection, the fixture does not need to be opened.

LED: power factor ≥ 0.95 . Luminous flux maintenance 80%; 50.000h (L80B20). Photobiological safety class: exempt group.



L80
B20
50.000h

RG0

U.V.

DIMM
DIG

LOW
FLICKER

3000K

4000K

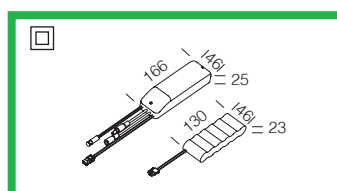
833 Creta - UGR<17

| LED | colour | weight | CLD | CLD D-D (DALI) | W tot | LUMEN OUTPUT (tq= 25 °C) | + Kit acc 600 | % EM operation | |
|-----|--------|--------|-------------|----------------|-------|--------------------------|---------------|----------------|-----|
| | | | code | code | | K - ølm - CRI | | h | % |
| LED | white | 2.00 | 150240-00 | 150240-0041 | 30 | 4000K - 3724lm - CRI 80 | 986604-00 | 1h | 14% |
| | | | | 150240-39 | | 3000K - 3463lm - CRI 80 | 986604-31 | 3h | 6% |
| | | | 150240-39 | 150240-3941 | | 3000K - 3463lm - CRI 80 | 986604-00 | 1h | 14% |
| | | | | 150240-3941 | | 3000K - 3463lm - CRI 80 | 986604-31 | 3h | 6% |
| LED | black | 2.00 | 150240-2121 | 150240-2141 | 30 | 4000K - 2489lm - CRI 80 | 986604-00 | 1h | 14% |
| | | | | 150240-2141 | | 4000K - 2489lm - CRI 80 | 986604-31 | 3h | 6% |

EM versions: use kit acc. 600.

W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

+ KIT
EM



acc. 600 EM power kit

| | |
|----|-----------|
| 1h | 986604-00 |
| 3h | 986604-31 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg.

EM
S.A.

833 Creta - EM ED 1h - UGR<17

| LED | colour | weight | CLD ED | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|-------------|-------|--------------------------|
| | | | code | | K - ølm - CRI |
| LED | white | 2.00 | 150240-95 | 30 | 4000K - 3724lm - CRI 80 |
| | | | 150240-9528 | | 3000K - 3463lm - CRI 80 |
| LED | black | 2.00 | 150240-9521 | 30 | 4000K - 2489lm - CRI 80 |

-95
ED

833 Creta - EM AD 1h - UGR<17

| LED | colour | weight | CLD - Self-diagnosis | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|----------------------|-------|--------------------------|
| | | | code | | K - ølm - CRI |
| LED | white | 2.00 | 150240-0066 | 30 | 4000K - 3724lm - CRI 80 |
| | | | 150240-3966 | | 3000K - 3463lm - CRI 80 |
| LED | black | 2.00 | 150240-2150 | 30 | 4000K - 2489lm - CRI 80 |

-0066
AD

833 Creta - EM EC - UGR<17

| LED | colour | weight | CLD EC | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|-------------|-------|--------------------------|
| | | | code | | K - ølm - CRI |
| LED | white | 2.00 | 150240-0050 | 30 | 4000K - 3724lm - CRI 80 |
| | | | 150240-3950 | | 3000K - 3463lm - CRI 80 |
| LED | black | 2.00 | 150240-2150 | 30 | 4000K - 2489lm - CRI 80 |

-0050
EM-EC

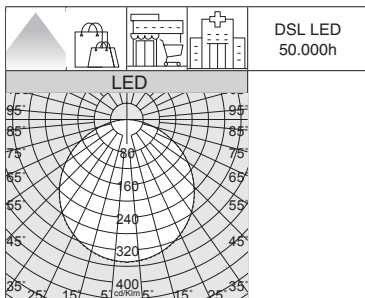
L80
B20
50.000h

RG0

U.V.

3000K

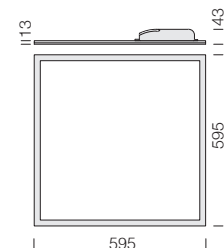
4000K



DSL LED
50.000h



IP40 IK05



| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 850 | 28 | 4000K - 3024lm - CRI>80 |
| 900 | 30 | 4000K - 3202lm - CRI>80 |
| 950 | 31 | 4000K - 3381lm - CRI>80 |
| 1050 | 34 | 4000K - 3738lm - CRI>80 |

| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 850 | 28 | 3000K - 2873lm - CRI>80 |
| 900 | 30 | 3000K - 3042lm - CRI>80 |
| 950 | 31 | 3000K - 3212lm - CRI>80 |
| 1050 | 34 | 3000K - 3551lm - CRI>80 |

Lumen maintenance (lm) with EM kit:
see table on page 7

+ KIT
EM

Pannello B - DIP SWITCH

| | | CLD | | | | LUMEN OUTPUT (tq= 25 °C) | | + Kit EM | | % EM operation | |
|-----|--------|--------|-------------|-------|-------|--------------------------|--|-------------|----|----------------|--|
| LED | colour | weight | code | I out | W tot | K - ølm - CRI | | | h | % | |
| LED | white | 2.90 | 22184301-00 | 900 | 30 | 4000K - 3202lm - CRI>80 | | 22096035-00 | 1h | 14% | |
| | | | 22184301-39 | | | 3000K - 3042lm - CRI>80 | | 22096037-00 | 3h | 6% | |

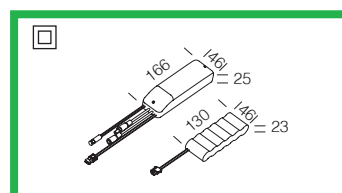
EM versions: use power kit in EM. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

EM
S.A.

EM power kit

| | |
|----|-------------|
| 1h | 22096035-00 |
| 3h | 22096037-00 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg.



Pannello B - EM AD 1h - DIP SWITCH

-0066
AD

| | | CLD - Self-diagnosis | | | | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|----------------------|---------------|-------|-------|--------------------------|--|
| LED | colour | weight | code | I out | W tot | K - ølm - CRI | |
| LED | white | 2.90 | 22184301-0066 | 900 | 30 | 4000K - 3202lm - CRI>80 | |
| | | | 22184301-3966 | | | 3000K - 3042lm - CRI>80 | |

EM AD 1h: complete with emergency system and self-diagnosis module. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

Pannello B - EM EC - DIP SWITCH

-0050
EM-EC

| | | CLD EC | | | | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|--------|---------------|-------|-------|--------------------------|--|
| LED | colour | weight | code | I out | W tot | K - ølm - CRI | |
| LED | white | 2.90 | 22184301-0050 | 900 | 30 | 4000K - 3202lm - CRI>80 | |
| | | | 22184301-3950 | | | 3000K - 3042lm - CRI>80 | |

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

Pannello B

Inner slab: in PMMA.

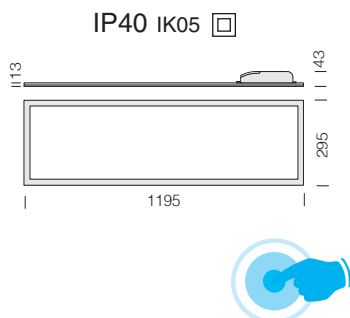
LED: power factor ≥ 0.95 . Luminous flux maintenance 80%: 50.000h (L80B20).

ADAPT THE CURRENT TO ACHIEVE OPTIMAL LUMINOUS FLUX

DIP SWITCH SETTING: the fixture comes with a **DIP SWITCH** driver for **THE SETTING OF THE OUTPUT CURRENT**. In this way you, can **ENSURE THE BEST LUMINOUS FLUX** for any lighting design.

The possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.

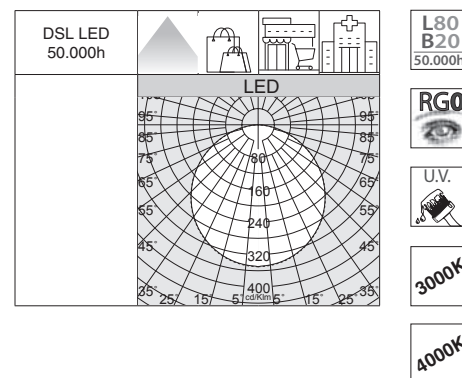
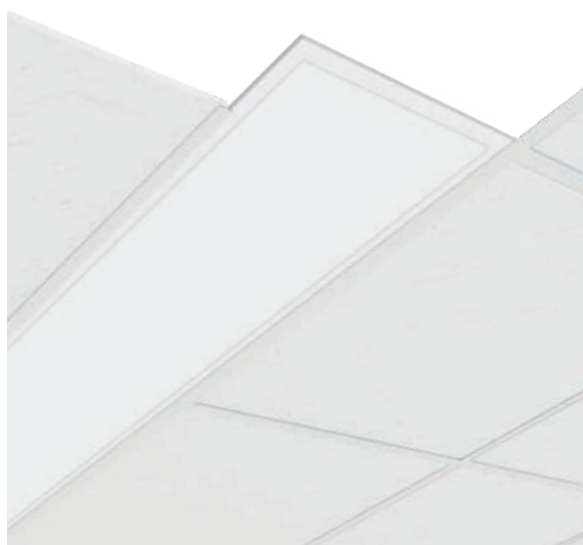




| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 650 | 25 | 4000K - 2858lm - CRI>80 |
| 700 | 27 | 4000K - 3079lm - CRI>80 |
| 800 | 31 | 4000K - 3517lm - CRI>80 |
| 850 | 34 | 4000K - 3738lm - CRI>80 |

| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 650 | 25 | 3000K - 2715lm - CRI>80 |
| 700 | 27 | 3000K - 2924lm - CRI>80 |
| 800 | 31 | 3000K - 3341lm - CRI>80 |
| 850 | 34 | 3000K - 3551lm - CRI>80 |

Lumen maintenance (lm) with EM kit:
see table on page 7



L80
B20
50.000h

RG0

U.V.

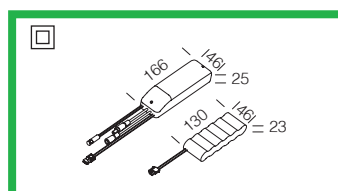
3000K

4000K

Pannello B - R2 - DIP SWITCH

| LED | colour | CLD | | I out | W tot | LUMEN OUTPUT (tq= 25 °C) | + Kit EM | % EM operation | |
|-----|--------|--------|-------------|-------|-------|--------------------------|-------------|----------------|-----|
| | | weight | code | | | K - ølm - CRI | | h | % |
| LED | white | 2.90 | 22185204-00 | 850 | 34 | 4000K - 3738lm - CRI>80 | 22096035-00 | 1h | 12% |
| | | | 22185204-39 | | | 3000K - 3551lm - CRI>80 | 22096037-00 | 3h | 5% |

EM versions: use power kit in EM. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.



| EM power kit | |
|--------------|-------------|
| 1h | 22096035-00 |
| 3h | 22096037-00 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg. Max 54W.

EM AD 1h: complete with emergency system and self-diagnosis module. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

| Pannello B - R2 - EM AD 1h - DIP SWITCH | | | | | |
|---|--------|--------|----------------------|-------|--------------------------|
| LED | colour | weight | CLD - Self-diagnosis | | LUMEN OUTPUT (tq= 25 °C) |
| | | | code | I out | W tot |
| LED | white | 2.90 | 22185204-0066 | 850 | 34 |
| | | | 22185204-3966 | | |

-0066
AD

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

| Pannello B - R2 - EM EC - DIP SWITCH | | | | | |
|--------------------------------------|--------|--------|---------------|-------|--------------------------|
| LED | colour | weight | CLD EC | | LUMEN OUTPUT (tq= 25 °C) |
| | | | code | I out | W tot |
| LED | white | 2.90 | 22185204-0050 | 850 | 34 |
| | | | 22185204-3950 | | |

-0050
EM-EC



L80
B20
50.000h

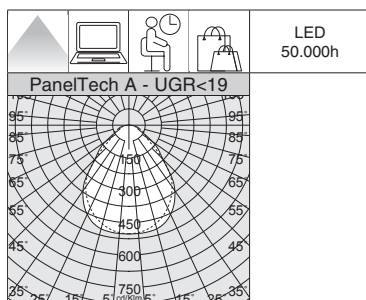
RG0

U.V.

LOW
FLICKER

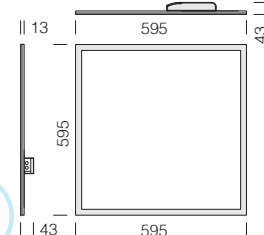
3000K

4000K



REAL
UGR<19!

IP40 IK05



| DIP SWITCH SETTING | | |
|--------------------|-------|---|
| I out | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI |
| 850 | 28 | 4000K - 3072lm - CRI>80 |
| 900 | 30 | 4000K - 3229lm - CRI>80 |
| 950 | 31 | 4000K - 3385lm - CRI>80 |
| 1050 | 34 | 4000K - 3703lm - CRI>80 |

| DIP SWITCH SETTING | | |
|--------------------|-------|---|
| I out | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI |
| 850 | 28 | 3000K - 2921lm - CRI>80 |
| 900 | 30 | 3000K - 3069lm - CRI>80 |
| 950 | 31 | 3000K - 3218lm - CRI>80 |
| 1050 | 34 | 3000K - 3521lm - CRI>80 |

Lumen maintenance (lm) with EM kit:
see table on page 7

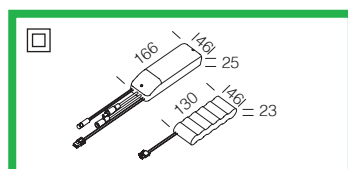
PanelTech A - UGR<19 - DIP SWITCH

+ KIT
EM

| LED | colour | weight | CLD | code | I out | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI | + Kit EM | % EM operation | |
|-----|--------|--------|-----|-------------|-------|-------|---|-------------|----------------|-----|
| | | | | | | | | | h | % |
| LED | white | 2.90 | | 22184802-00 | 950 | 31 | 4000K - 3385lm - CRI>80 | 22096035-00 | 1h | 13% |
| | | | | 22184802-39 | | | 3000K - 3218lm - CRI>80 | 22096037-00 | 3h | 6% |
| | | | | | | | | 22096035-00 | 1h | 13% |
| | | | | | | | | 22096037-00 | 3h | 6% |

EM versions: use power kit in EM. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

EM
S.A.



EM power kit

| | |
|----|-------------|
| 1h | 22096035-00 |
| 3h | 22096037-00 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg.

PanelTech A - EM AD 1h - UGR<19 - DIP SWITCH

-0066
AD

| LED | colour | weight | CLD - Self-diagnosis | code | I out | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI |
|-----|--------|--------|----------------------|---------------|-------|-------|---|
| | | | | | | | |
| LED | white | 2.90 | | 22184802-0066 | 950 | 31 | 4000K - 3385lm - CRI>80 |
| | | | | 22184802-3966 | | | 3000K - 3218lm - CRI>80 |

EM AD 1h: complete with emergency system and self-diagnosis module. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

PanelTech A - EM EC - UGR<19 - DIP SWITCH

-0050
EM-EC

| LED | colour | weight | CLD EC | code | I out | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI |
|-----|--------|--------|--------|---------------|-------|-------|---|
| | | | | | | | |
| LED | white | 2.90 | | 22184802-0050 | 950 | 31 | 4000K - 3385lm - CRI>80 |
| | | | | 22184802-3950 | | | 3000K - 3218lm - CRI>80 |

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

PanelTech

Inner slab: in PMMA.

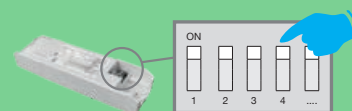
Diffuser: in prismatic engineering plastic with high transmittance.

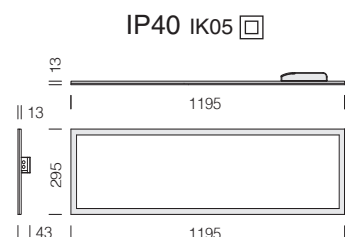
LED: power factor ≥ 0.95 . Luminous flux maintenance 80%: 50.000h (L80B20).

ADAPT THE CURRENT TO ACHIEVE OPTIMAL LUMINOUS FLUX

DIP SWITCH SETTING: the fixture comes with a **DIP SWITCH** driver for **THE SETTING OF THE OUTPUT CURRENT**. In this way you, can **ENSURE THE BEST LUMINOUS FLUX** for any lighting design.

The possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.

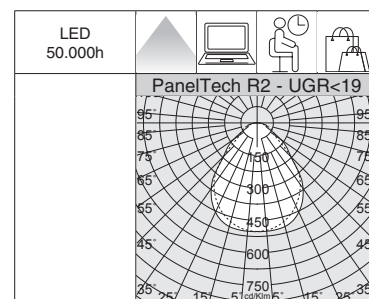




| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 650 | 25 | 4000K - 2786lm - CRI>80 |
| 700 | 27 | 4000K - 3000lm - CRI>80 |
| 800 | 31 | 4000K - 3429lm - CRI>80 |
| 850 | 34 | 4000K - 3643lm - CRI>80 |

| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 650 | 25 | 3000K - 2646lm - CRI>80 |
| 700 | 27 | 3000K - 2850lm - CRI>80 |
| 800 | 31 | 3000K - 3258lm - CRI>80 |
| 850 | 34 | 3000K - 3461lm - CRI>80 |

Lumen maintenance (lm) with EM kit:
see table on page 7



L80
B20
50.000h

RG0

U.V.

LOW
FLICKER

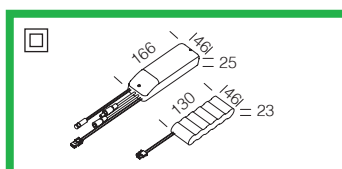
3000K

4000K

PanelTech R2 - UGR<19 - DIP SWITCH

| Paneltech H2 - CGN15 - DIP Switch | | | | | | | | | |
|--|--------|--------|-------------|-------|-------|--------------------------|-------------|----------------|-----|
| LED | colour | CLD | | I out | W tot | LUMEN OUTPUT (tq= 25 °C) | + Kit EM | % EM operation | |
| | | weight | code | | | K - ølm - CRI | | h | % |
| LED | white | 2.90 | 22185205-00 | 800 | 31 | 4000K - 3429lm - CRI>80 | 22096035-00 | 1h | 13% |
| | | | | | | 22096037-00 | 3h | 6% | |
| | | | 22185205-39 | | | 22096035-00 | 1h | 13% | |
| | | | | | | 22096037-00 | 3h | 6% | |

EM versions: use power kit in EM. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.



EM power kit

| | |
|----|-------------|
| 1h | 22096035-00 |
| 3h | 22096037-00 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg. Max 54W.

+ KIT
EM

EM
S.A.

PanelTech R2 - EM AD 1h - UGR<19 - DIP SWITCH

| Paneltech T12 - LM AD III - GCR15 - DIP SWITCH | | | | | | | | |
|--|--------|----------------------|---------------|-------|-------|-------------------------|--------------------------|--|
| | | CLD - Self-diagnosis | | | | | LUMEN OUTPUT (tq= 25 °C) | |
| LED | colour | weight | code | I out | W tot | K - ølm - CRI | | |
| LED | white | 2.90 | 22185205-0066 | 800 | 31 | 4000K - 3429lm - CRI>80 | | |
| | | | 22185205-3966 | | | 3000K - 3258lm - CRI>80 | | |

-0066
AD

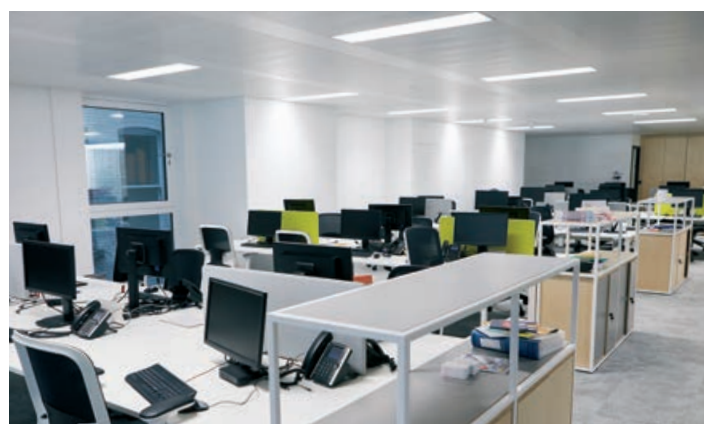
EM AD 1h: complete with emergency system and self-diagnosis module. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

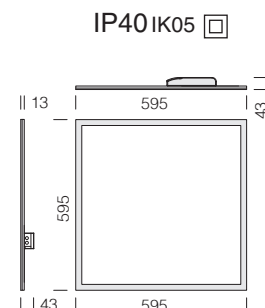
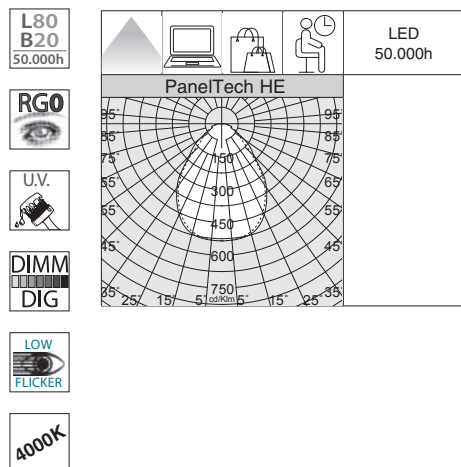
PanelTech R2 - EM EC - UGR<19 - DIP SWITCH

| | | CLD EC | | | | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|--------|---------------|-------|-------|--------------------------|--|
| LED | colour | weight | code | I out | W tot | K - ølm - CRI | |
| LED | white | 2.90 | 22185205-0050 | 800 | 31 | 4000K - 3429lm - CRI>80 | |
| | | | 22185205-3950 | | | 3000K - 3258lm - CRI>80 | |

-0050
EM-EC

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

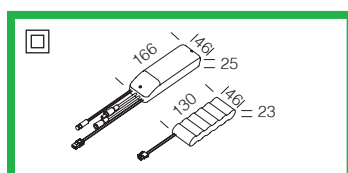




PanelTech HE A2 - UGR<19

| LED | colour | weight | CLD | CLD D-DIG (DALI) | W tot | LUMEN OUTPUT (tq= 25 °C) | + Kit EM | % EM operation | |
|-----|--------|--------|-------------|------------------|-------|--------------------------|-------------|----------------|-----|
| | | | code | code | | K - ølm - CRI | | h | % |
| LED | white | 2.90 | 22184806-00 | 22184806-1241 | 27 | 4000K - 3585lm - CRI>80 | 22096035-00 | 1h | 15% |
| | | | | | | | 22096037-00 | 3h | 6% |

EM versions: use power kit in EM. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.



EM power kit

| | |
|----|-------------|
| 1h | 22096035-00 |
| 3h | 22096037-00 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg.

PanelTech HE A2 - EM ED 1h - UGR<19



| LED | colour | weight | CLD ED | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|-------------|-------|--------------------------|
| | | | code | | K - ølm - CRI |
| LED | white | 2.90 | 22184806-95 | 27 | 4000K - 3585lm - CRI>80 |

EM ED 1h: complete with emergency system with standard DALI protocol (inverter only). The -95 equipped product will remain ON-OFF and not DALI dimmable. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

PanelTech HE A2 - EM AD 1h - UGR<19



| LED | colour | weight | CLD - Self-diagnosis | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|----------------------|-------|--------------------------|
| | | | code | | K - ølm - CRI |
| LED | white | 2.90 | 22184806-0066 | 27 | 4000K - 3585lm - CRI>80 |

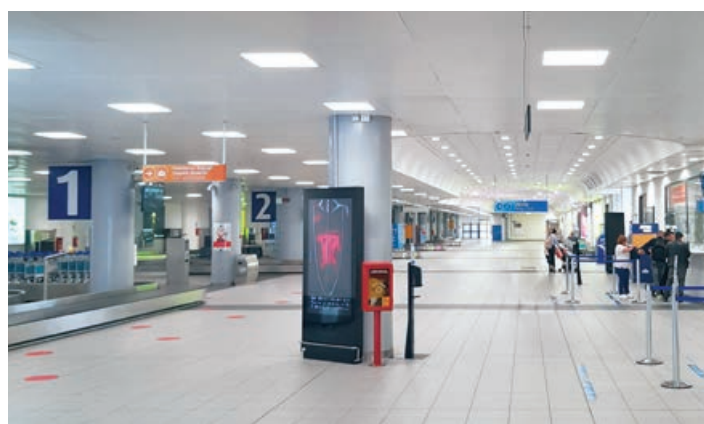
EM AD 1h: complete with emergency system and self-diagnosis module. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

PanelTech HE A2 - EM EC - UGR<19

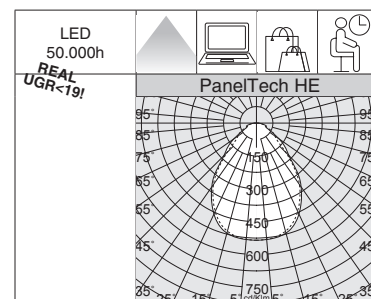
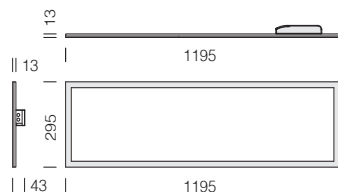


| LED | colour | weight | CLD EC | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|---------------|-------|--------------------------|
| | | | code | | K - ølm - CRI |
| LED | white | 2.90 | 22184806-0050 | 27 | 4000K - 3585lm - CRI>80 |

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).



IP40 IK05



L80
B20
50.000h

RG0

U.V.

DIMM
DIG

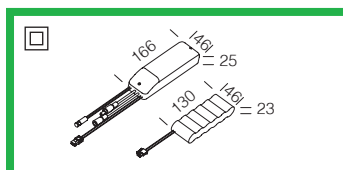
LOW
FLICKER

4000K

PanelTech HE R2 - UGR<19

| LED | colour | CLD | | CLD D-DIG (DALI) | W tot | LUMEN OUTPUT (tq= 25 °C) | + Kit EM | % EM operation | |
|-----|--------|--------|-------------|------------------|-------|--------------------------|-------------|----------------|-----|
| | | weight | code | code | | K - ølm - CRI | | h | % |
| LED | white | 2.90 | 22185203-00 | 22185203-1241 | 27 | 4000K - 3527lm - CRI>80 | 22096035-00 | 1h | 15% |
| | | | | | | | 22096037-00 | 3h | 6% |

EM versions: use power kit in EM. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.



EM power kit

| | |
|----|-------------|
| 1h | 22096035-00 |
| 3h | 22096037-00 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg.

+ KIT
EM

EM
S.A.

PanelTech HE R2 - EM ED 1h - UGR<19

| LED | colour | weight | CLD ED | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|-------------|-------|--------------------------|
| | | | code | | K - ølm - CRI |
| LED | white | 2.90 | 22185203-95 | 27 | 4000K - 3527lm - CRI>80 |

-95
ED

EM ED 1h: complete with emergency system with standard DALI protocol (inverter only). The -95 equipped product will remain ON-OFF and not DALI dimmable. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

PanelTech HE R2 - EM AD 1h - UGR<19

| LED | colour | weight | CLD - Self-diagnosis | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|----------------------|-------|--------------------------|
| | | | code | | K - ølm - CRI |
| LED | white | 2.90 | 22185203-0066 | 27 | 4000K - 3527lm - CRI>80 |

-0066
AD

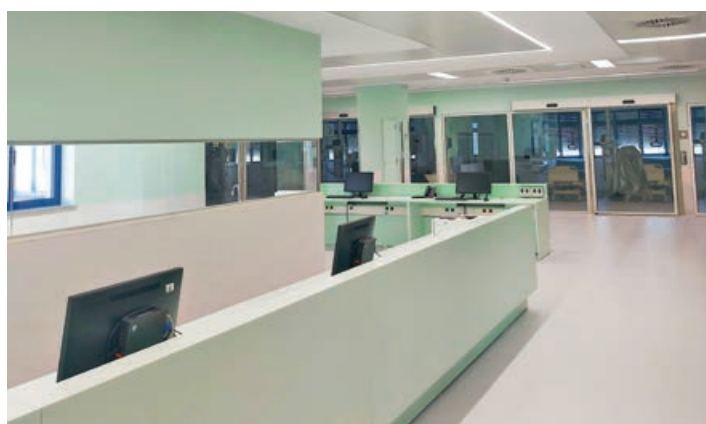
EM AD 1h: complete with emergency system and self-diagnosis module. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

PanelTech HE R2 - EM EC - UGR<19

| LED | colour | weight | CLD EC | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|---------------|-------|--------------------------|
| | | | code | | K - ølm - CRI |
| LED | white | 2.90 | 22185203-0050 | 27 | 4000K - 3527lm - CRI>80 |

-0050
EM-EC

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).



L90
B10
55.000h

RGO
Etr

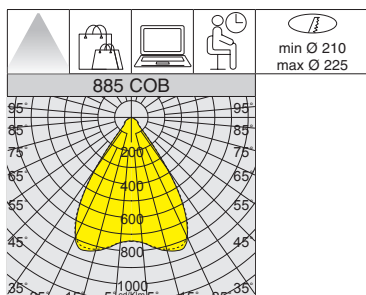
DIMM
DIG

U.V.

LOW
FLICKER

LOW
FLICKER

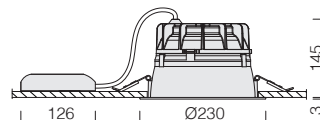
4000K



REAL
UGR<19!



v.a. IP20 IK07
v.l. IP44 IK07



| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 350 | 12 | 4000K - 1540lm - CRI 80 |
| 400 | 14 | 4000K - 1754lm - CRI 80 |
| 450 | 16 | 4000K - 1965lm - CRI 80 |
| 500 | 18 | 4000K - 2156lm - CRI 80 |
| 550 | 19,5 | 4000K - 2335lm - CRI 80 |
| 600 | 22 | 4000K - 2636lm - CRI 80 |
| 650 | 23 | 4000K - 2736lm - CRI 80 |
| 700 | 25 | 4000K - 2954lm - CRI 80 |

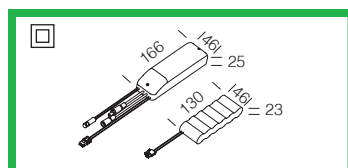
Lumen maintenance (lm) with EM kit:
see table on page 7

885 Compact Dark 1 - UGR<19 - DIP SWITCH

| | | CLD | | CLD D-D (DALI) | | | LUMEN OUTPUT (tq= 25 °C) | + kit EM acc 600 | | % EM operation |
|-----|--------|--------|-----------|----------------|-------|-------|--------------------------|------------------|----|----------------|
| LED | colour | weight | code | code | I out | W tot | K - ølm - CRI | | h | % |
| COB | white | 1.10 | 156450-00 | 156450-0041 | 500 | 18 | 4000K - 2156lm - CRI 80 | 986604-00 | 1h | 23% |
| | | | | | | | | 986604-31 | 3h | 10% |

EM versions: use kit acc. 600. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

EM
S.A.



acc. 600 EM power kit

| | |
|----|-----------|
| 1h | 986604-00 |
| 3h | 986604-31 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg.

885 Compact Dark 1 - EM ED 1h - UGR<19 - DIP SWITCH

| | | CLD ED | | | | | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|-----------|------|-------|--|--------------------------|
| LED | colour | weight | code | code | W tot | | K - ølm - CRI |
| COB | white | 1.10 | 156450-95 | 500 | 18 | | 4000K - 2156lm - CRI 80 |

EM ED 1h: complete with emergency system with standard DALI protocol (inverter only). The -95 equipped product will remain ON-OFF and not DALI dimmable. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

885 Compact Dark 1 - EM AD 1h - UGR<19 - DIP SWITCH

| | | CLD - Self-diagnosis | | | | | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|----------------------|-------------|------|-------|--|--------------------------|
| LED | colour | weight | code | code | W tot | | K - ølm - CRI |
| COB | white | 1.10 | 156450-0066 | 500 | 18 | | 4000K - 2156lm - CRI 80 |

EM AD 1h: complete with emergency system and self-diagnosis module. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

885 Compact Dark 1 - EM EC - UGR<19 - DIP SWITCH

| | | CLD EC | | | | | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|-------------|------|-------|--|--------------------------|
| LED | colour | weight | code | code | W tot | | K - ølm - CRI |
| COB | white | 1.10 | 156450-0050 | 500 | 18 | | 4000K - 2156lm - CRI 80 |

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

Compact

Housing-reflector: in shatterproof self-extinguishing V0 polycarbonate.

Shield: in shatterproof, self-extinguishing transparent V0 polycarbonate. Internal micro-lenticular film and glass shielding of **UGR<19**.

LED: power factor ≥ 0.92 . Luminous flux maintenance 90%: 55.000h (L90B10).

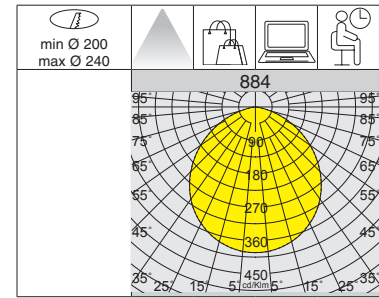
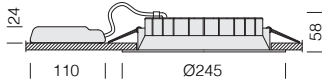
ADAPT THE CURRENT TO ACHIEVE OPTIMAL LUMINOUS FLUX

DIP SWITCH SETTING: the fixture comes with a **DIP SWITCH** driver for **THE SETTING OF THE OUTPUT CURRENT**. In this way you, can **ENSURE THE BEST LUMINOUS FLUX** for any lighting design.

The possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.



v.a. IP20 IK07
v.l. IP44 IK07



**L80
B20**
55.000h

RG0

U.V.

**LOW
FLICKER**

3000K

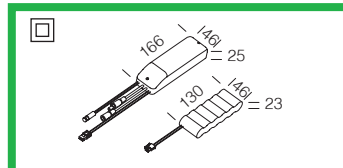
4000K

**+ KIT
EM**

884 Compact - CRI 95 - Ø245 - DIP SWITCH

| LED | colour | CLD | | I out | W tot | LUMEN OUTPUT (tq= 25 °C) | | + kit EM acc 600 | | % EM operation | |
|-----|--------|--------|-----------|-------|-------|--------------------------|--|------------------|----|----------------|--|
| | | weight | code | | | K - ølm - CRI | | | h | % | |
| LED | white | 0.60 | 156424-00 | 500 | 18 | 4000K - 2385lm - CRI 95 | | 986605-00 | 1h | 23% | |
| | | | 156424-39 | | | 3000K - 2266lm - CRI 95 | | 986605-31 | 3h | 10% | |
| LED | white | 0.60 | 156425-00 | 650 | 24 | 4000K - 3134lm - CRI 95 | | 986605-00 | 1h | 17% | |
| | | | 156425-39 | | | 3000K - 2960lm - CRI 95 | | 986605-31 | 3h | 7% | |

EM versions: use kit acc. 600. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.



acc. 600 EM power kit

| | |
|----|-----------|
| 1h | 986605-00 |
| 3h | 986605-31 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg.

**EM
S.A.**

884 Compact - EM AD 1h - CRI 95 - Ø245 - DIP SWITCH

| LED | colour | weight | CLD - Self-diagnosis | | I out | W tot | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|--------|----------------------|-----|-------|-------|--------------------------|--|
| | | | code | | | | K - ølm - CRI | |
| LED | white | 0.60 | 156424-0066 | 500 | 18 | | 4000K - 2385lm - CRI 95 | |
| | | | 156424-3966 | | | | 3000K - 2266lm - CRI 95 | |
| LED | white | 0.60 | 156425-0066 | 650 | 24 | | 4000K - 3134lm - CRI 95 | |
| | | | 156425-3966 | | | | 3000K - 2960lm - CRI 95 | |

Complete with emergency system and self-diagnosis module. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

**-0066
AD**

884 Compact - EM EC - CRI 95 - Ø245 - DIP SWITCH

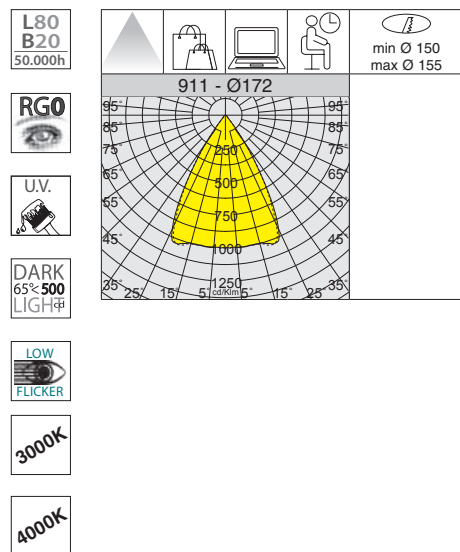
| LED | colour | weight | CLD EC | | I out | W tot | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|--------|-------------|-----|-------|-------|--------------------------|--|
| | | | code | | | | K - ølm - CRI | |
| LED | white | 0.60 | 156424-0050 | 500 | 18 | | 4000K - 2385lm - CRI 95 | |
| | | | 156424-3950 | | | | 3000K - 2266lm - CRI 95 | |
| LED | white | 0.60 | 156425-0050 | 650 | 24 | | 4000K - 3134lm - CRI 95 | |
| | | | 156425-3950 | | | | 3000K - 2960lm - CRI 95 | |

With emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

**-0050
EM-EC**

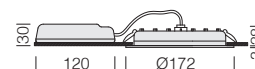
Lumen maintenance (lm) with EM kit:
see table on page 7





REAL
UGR<19!

v.a. **IP20 IK07**
v.l. **IP40 IK07**



| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 350 | 13 | 4000K - 1795lm - CRI 80 |
| 500 | 19 | 4000K - 2490lm - CRI 80 |
| 600 | 22 | 4000K - 2915lm - CRI 80 |

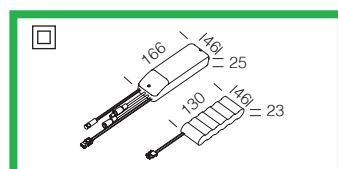
| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 350 | 13 | 3000K - 1669lm - CRI 80 |
| 500 | 19 | 3000K - 2316lm - CRI 80 |
| 600 | 22 | 3000K - 2711lm - CRI 80 |

Lumen maintenance (lm) with EM kit:
see table on page 7

911 Health Dark - UGR<19 - Ø172 - DIP SWITCH

| <div>+ KIT</div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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| |
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EM versions: use kit acc. 600. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.



acc. 600 EM power kit

| | |
|----|-----------|
| 1h | 986604-00 |
| 3h | 986604-31 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg.



911 Health Dark - EM AD 1h - UGR<19 - Ø172 - DIP SWITCH

| CLD - Self-diagnosis | | | | | LUMEN OUTPUT (tq= 25 °C) | | |
|----------------------|--------|--------|-----|-------------|--------------------------|-------|-------------------------|
| LED | colour | weight | Ø | code | I out | W tot | K - ølm - CRI |
| LED | white | 0.40 | 172 | 156473-0066 | 500 | 19 | 4000K - 2490lm - CRI 80 |
| | | | | 156473-3966 | | | 3000K - 2316lm - CRI 80 |

EM AD 1h: complete with emergency system and self-diagnosis module. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.



911 Health Dark - EM EC - UGR<19 - Ø172 - DIP SWITCH

| | | CLD EC | | | | | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|--------|-----|-------------|-------|-------|--------------------------|
| LED | colour | weight | Ø | code | I out | W tot | K - ølm - CRI |
| LED | white | 0.40 | 172 | 156473-0050 | 500 | 19 | 4000K - 2490lm - CRI 80 |
| | | | | 156473-3950 | | | 3000K - 2316lm - CRI 80 |

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

Health Dark

Housing: fixed downlight in die cast aluminium.

Lens: in PMMA lens with high efficiency output and very low glare rate.

Dark light optics: in anti-glare metalized plastic material.

LED: power factor ≥0.9. Luminous flux maintenance 80%: 50.000h (L80B20).

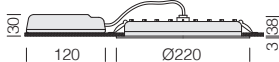
ADAPT THE CURRENT TO ACHIEVE OPTIMAL LUMINOUS FLUX

DIP SWITCH SETTING: the fixture comes with a **DIP SWITCH** driver for **THE SETTING OF THE OUTPUT CURRENT**. In this way you, can **ENSURE THE BEST LUMINOUS FLUX** for any lighting design.

The possibility to choose the correct drive current for LEDs will allow you to have the right power under specific design conditions. Using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.

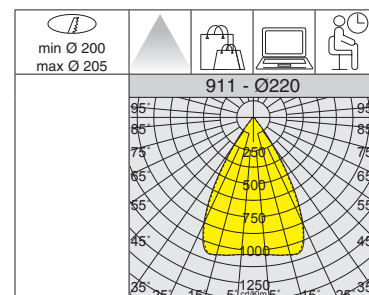


v.a. IP20 IK07
v.l. IP40 IK07



| DIP SWITCH SETTING | | |
|--------------------------|-------|-------------------------|
| LUMEN OUTPUT (tq= 25 °C) | | |
| I out | W tot | K - ølm - CRI |
| 600 | 22 | 4000K - 2900lm - CRI 80 |
| 700 | 26 | 4000K - 3315lm - CRI 80 |
| 800 | 30 | 4000K - 3740lm - CRI 80 |
| 900 | 33 | 4000K - 4150lm - CRI 80 |
| 950 | 35 | 4000K - 4340lm - CRI 80 |

Lumen maintenance (lm) with EM kit:
see table on page 7



L80
B20
50.000h

RG0

U.V.

DARK
65%
500
LIGHT

LOW
FLICKER

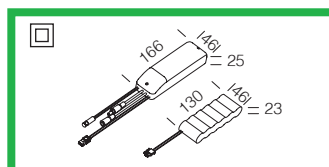
4000K

911 Health Dark - UGR<19 - Ø220 - DIP SWITCH

| LED | colour | CLD | | code | I out | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI | + Kit acc 600 | | % EM operation | |
|-----|--------|--------|-----|-----------|-------|-------|---|---------------|----|----------------|---|
| | | weight | Ø | | | | | | h | | % |
| LED | white | 0.60 | 220 | 156477-00 | 800 | 30 | 4000K - 3740lm - CRI 80 | 986604-00 | 1h | 14% | |
| | | | | | | | | 986604-31 | 3h | 6% | |

EM versions: use kit acc. 600. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

+ KIT
EM



acc. 600 EM power kit

| | |
|----|-----------|
| 1h | 986604-00 |
| 3h | 986604-31 |

EM (emergency) lamp power kit complete with connectors. 0.43 Kg.

EM
S.A.

EM AD 1h: complete with emergency system and self-diagnosis module. **W tot:** when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

911 Health Dark - EM AD 1h - UGR<19 - Ø220 - DIP SWITCH

| LED | colour | CLD - Self-diagnosis | | code | I out | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI |
|-----|--------|----------------------|-----|-------------|-------|-------|---|
| | | weight | Ø | | | | |
| LED | white | 0.60 | 220 | 156477-0066 | 800 | 30 | 4000K - 3740lm - CRI 80 |

-0066
AD

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

911 Health Dark - EM E C - UGR<19 - Ø220 - DIP SWITCH

| LED | colour | CLD EC | | code | I out | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI |
|-----|--------|--------|-----|-------------|-------|-------|---|
| | | weight | Ø | | | | |
| LED | white | 0.60 | 220 | 156477-0050 | 800 | 30 | 4000K - 3740lm - CRI 80 |

-0050
EM-EC



L80
B20
50.000h

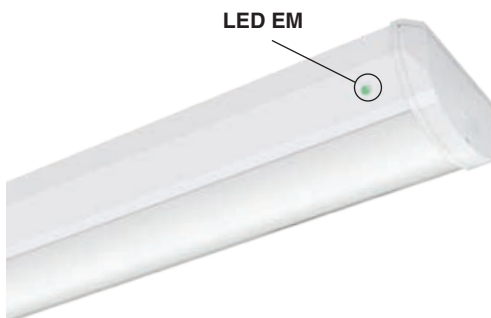
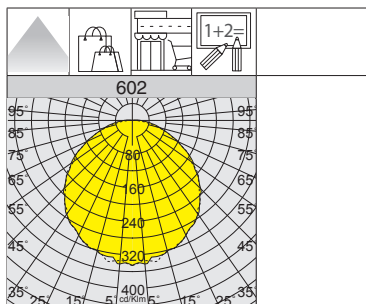
RG0

U.V.

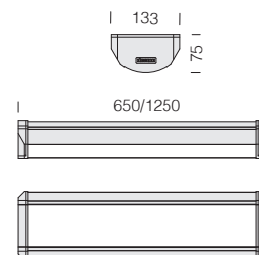
LOW
FLICKER

LOW
FLICKER

4000K



IP20IK06



602 Disanlens - EM 1h - S.A.

EM
S.A.

| LED | colour | L | weight | CLD E | W tot | LUMEN OUTPUT (tq= 25 °C) | % EM operation | |
|-----|--------|---------|--------|-----------|-------|--------------------------|----------------|-----|
| | | | | code | | K - ølm - CRI | h | % |
| LED | white | 650 mm | 1.50 | 115597-07 | 15 | 4000K - 1720lm - CRI 80 | 1h | 29% |
| | | 1250 mm | 2.70 | 115598-07 | 30 | 4000K - 3440lm - CRI 80 | 1h | 14% |

602 Disanlens - EM AD 1h

-0066
AD

| LED | colour | L | weight | CLD - Self-diagnosis | W tot | LUMEN OUTPUT (tq= 25 °C) | % EM operation | |
|-----|--------|---------|--------|----------------------|-------|--------------------------|----------------|-----|
| | | | | code | | K - ølm - CRI | h | % |
| LED | white | 650 mm | 1.50 | 115597-0766 | 15 | 4000K - 1720lm - CRI 80 | 1h | 29% |
| | | 1250 mm | 2.70 | 115598-0766 | 30 | 4000K - 3440lm - CRI 80 | 1h | 14% |

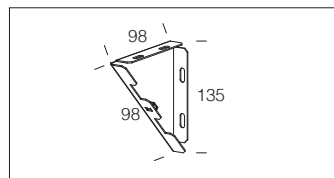
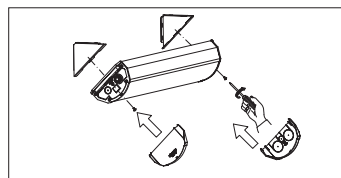
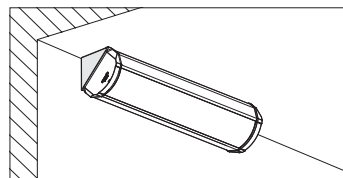
602 Disanlens - EM EC

-0050
EM-EC

| LED | colour | L | weight | CLD EC | W tot | LUMEN OUTPUT (tq= 25 °C) |
|-----|--------|---------|--------|-------------|-------|--------------------------|
| | | | | code | | K - ølm - CRI |
| LED | white | 650 mm | 1.50 | 115597-0050 | 15 | 4000K - 1720lm - CRI 80 |
| | | 1250 mm | 2.70 | 115598-0050 | 30 | 4000K - 3440lm - CRI 80 |

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

INSTALLATION AND ACCESSORIES



acc. 588 bracket

993971-00

Bracket for wall mounting. 2-pc set.

Disanlens

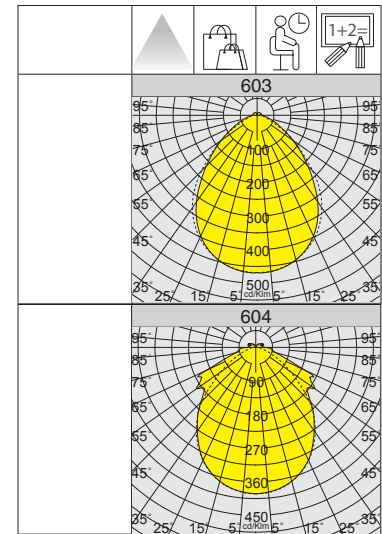
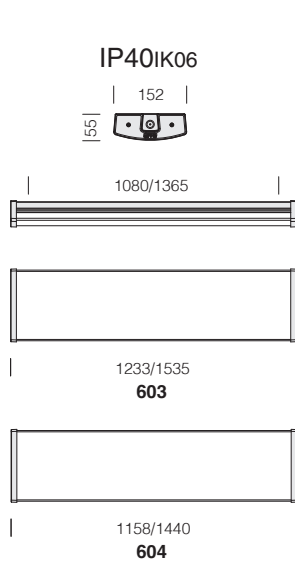
Housing: in extruded aluminium with closing ends.

Diffuser: in shatter-proof, self-extinguishing and UV-stabilised V2 polycarbonate. Smooth and dust-proof on the outside, and multiple grooves on the inside to increase light distribution.

Coating: smooth, white powder coating.

Equipment: silicone rubber gasket; outer screws in stainless steel.

LED: power factor ≥ 0.9 . Luminous flux maintenance 80%: 50.000h (L80B20). Photobiological safety class: exempt group.


**L80
B20**
50.000h

RG0
**LOW
FLICKER**
4000K
**EM
S.A.**
**-95
ED**
**-0066
AD**
**-0050
EM-EC**

603 Disanlens - EM 1h S.A - UGR<19

| LED | colour | L | weight | CLD E code | CLD D DE (DALI) code | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI | % EM operation | |
|------------|--------|---------|--------|---------------|-------------------------|-----------|---|----------------|-----|
| LED | white | 1233 mm | 2.80 | 115521-07 | 115521-0741 | 23 | 4000K - 3450lm - CRI 80 | 1h | 15% |
| | | 1535 mm | 3.50 | 115522-07 | 115522-0741 | 30 | 4000K - 4800lm - CRI 80 | 1h | 10% |

603 Disanlens - EM ED 1h - UGR<19

| LED | colour | L | weight | CLD ED code | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI | % EM operation | |
|------------|--------|---------|--------|----------------|-----------|---|----------------|-----|
| LED | white | 1233 mm | 2.80 | 115521-95 | 23 | 4000K - 3450lm - CRI 80 | 1h | 15% |
| | | 1535 mm | 3.50 | 115522-95 | 30 | 4000K - 4800lm - CRI 80 | 1h | 10% |

603 Disanlens - EM AD 1h - UGR<19

| LED | colour | L | weight | CLD - Self-diagnosis code | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI | % EM operation | |
|------------|--------|---------|--------|------------------------------|-----------|---|----------------|-----|
| LED | white | 1233 mm | 2.80 | 115521-0766 | 23 | 4000K - 3450lm - CRI 80 | 1h | 15% |
| | | 1535 mm | 3.50 | 115522-0766 | 30 | 4000K - 4800lm - CRI 80 | 1h | 10% |

603 Disanlens - EM EC - UGR<19

| LED | colour | L | weight | CLD EC code | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI |
|------------|--------|---------|--------|----------------|-----------|---|
| LED | white | 1233 mm | 2.80 | 115521-0050 | 23 | 4000K - 3450lm - CRI 80 |
| | | 1535 mm | 3.50 | 115522-0050 | 30 | 4000K - 4800lm - CRI 80 |

604 Disanlens - EM 1h - S.A.

| LED | colour | L | weight | CLD E code | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI | % EM operation | |
|------------|--------|---------|--------|---------------|-----------|---|----------------|-----|
| LED | white | 1158 mm | 2.20 | 115534-07 | 23 | 4000K - 3450lm - CRI 80 | 1h | 15% |
| | | 1440 mm | 3.30 | 115535-07 | 30 | 4000K - 4800lm - CRI 80 | 1h | 10% |

604 Disanlens - EM AD 1h

| LED | colour | L | weight | CLD - Self-diagnosis code | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI | % EM operation | |
|------------|--------|---------|--------|------------------------------|-----------|---|----------------|-----|
| LED | white | 1158 mm | 2.20 | 115534-0766 | 23 | 4000K - 3450lm - CRI 80 | 1h | 15% |
| | | 1440 mm | 3.30 | 115535-0766 | 30 | 4000K - 4800lm - CRI 80 | 1h | 10% |

604 Disanlens - EM EC

| LED | colour | L | weight | CLD EC code | W tot | LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI |
|------------|--------|---------|--------|----------------|-----------|---|
| LED | white | 1158 mm | 2.20 | 115534-0050 | 23 | 4000K - 3450lm - CRI 80 |
| | | 1440 mm | 3.30 | 115535-0050 | 30 | 4000K - 4800lm - CRI 80 |

Disanlens 603 - 604

Housing: in pre-coated and pre-galvanized sheet; ABS white thread ends with vandal-proof closure system.

Diffuser: in polycarbonate with micro-prismatic finish surface to control lighting distribution.

Equipment: complete with inlet cable gland and spacers to mount the fixture to the ceiling or wall..

LED: power factor ≥0.9. Luminous flux maintenance 80%: 50.000h (L80B20). Photobiological safety class: exempt group.



Madrid

Housing: extruded aluminium complete with end caps.

Diffuser: opal polycarbonate.

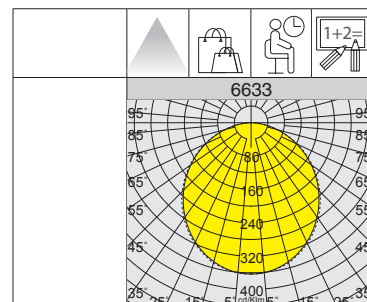
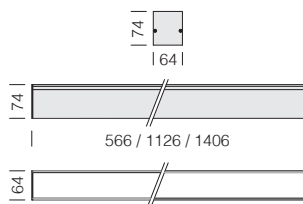
Upon request version with:

- emergency wiring **CLD E** with **sub-code -07**.
- emergency wiring with centralized power supply **CLD EC** with **sub-code -0050**.
- **CLD D-D (DALI)** wiring with **sub-code -0041**.
- version with pass-through wiring for continuous line modules L=2800 max with **subcode -0072**: supplied without diffuser, which should be purchased separately with acc. 6076, ideal for continuous and uninterrupted **"ALL LIGHT"** lines.
- black colour version

LED: power factor ≥ 0.9 . Luminous flux maintenance 80%: 50.000h (L80B20).
Photobiological safety class: exempt group.



IP40IK07



L80
B20
50.000h

RG0

U.V.

4000K

LOW
FLICKER

6633 Madrid - EM 1h - suspension/ceiling direct light - with opal diffuser

| LED | housing | CLD | | code | W tot | LUMEN OUTPUT (tq= 25 °C) | | % EM operation | |
|-----|---------|--------|--------|-----------|-------|--------------------------|--|----------------|-----|
| | | L (mm) | weight | | | K - ølm - CRI | | h | % |
| LED | white | 1126 | 1,80 | 133091-07 | 26 | 4000K - 2977lm - CRI>80 | | 1h | 17% |
| | | 1406 | 2,20 | 133092-07 | 34 | 4000K - 3756lm - CRI>80 | | 1h | 13% |

EM
S.A.

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

6633 Madrid - EM EC - suspension/ceiling direct light - with opal diffuser

| LED | housing | CLD EC | | code | W tot | LUMEN OUTPUT (tq= 25 °C) | |
|-----|---------|--------|--------|-------------|-------|--------------------------|--|
| | | L (mm) | weight | | | K - ølm - CRI | |
| LED | white | 566 | 0,90 | 133090-0050 | 13 | 4000K - 1488lm - CRI>80 | |
| | | 1126 | 1,80 | 133091-0050 | 26 | 4000K - 2977lm - CRI>80 | |
| | | 1406 | 2,20 | 133092-0050 | 34 | 4000K - 3756lm - CRI>80 | |

-0050
EM-EC

CONTINUOUS LINE INSTALLATION AND ACCESSORIES

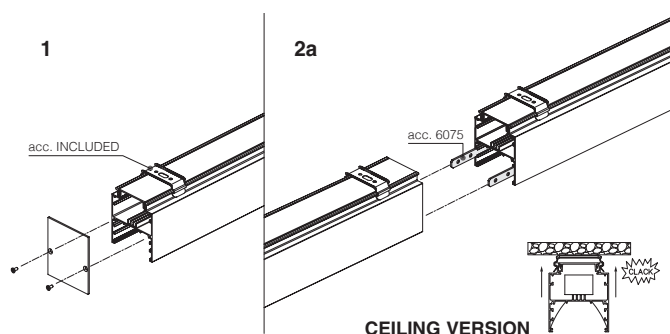
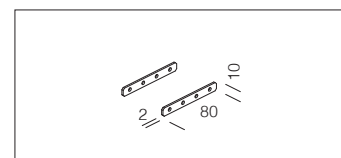
Installation sequence:

- 1) Unscrew the locking screws and remove the end cap.
- 2) Insert acc. 6075 junction bracket to be purchased separately (purchase **nr.2** acc. 6075 for *suspension* version)
- 3) Pair the luminaires until they are aligned, then tighten the locking screws.

acc. 6075 junction brackets

132915-00

Utilize for the suspension/ceiling installation in continuous line of Madrid.



CEILING VERSION

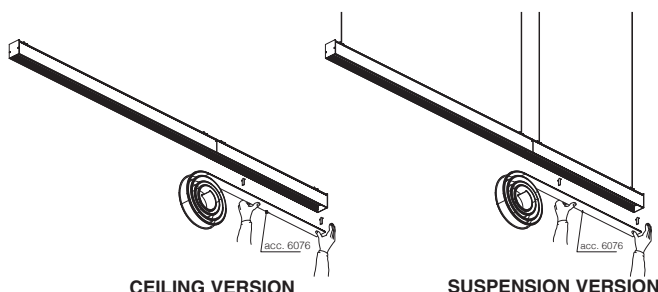
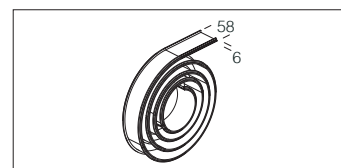
SUSPENSION VERSION

"ALL LIGHT" version with lengths on request and pass-through wiring with subcode **-0072** to be completed with acc. 6076 opal diffuser.

acc. 6076 opal diffuser

L = 30m 132916-00

Opal polycarbonate roll must always be used on Madrid for continuous and uninterrupted "all light" lines. Upon request, UGR<19 prismatic roll is available.



CEILING VERSION

SUSPENSION VERSION

L80
B20
50.000h

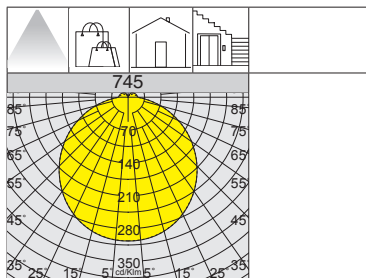
RG0



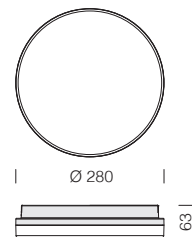
+35
C°
+5

3000K

4000K



IP65IK07



745 Oblò J 2.0 - EM 1h

EM
S.A.

| LED | colour | weight | Ø mm | CLD E | | W tot | LUMEN OUTPUT (tq= 25 °C) | | % EM operation | |
|-----|--------|--------|------|-------------|--|-------|--------------------------|--|----------------|----|
| | | | | code | | | K - ølm - CRI | | h | % |
| LED | white | 0.80 | 280 | 112600-07 | | 19 | 4000K - 2026lm - CRI≥80 | | 1h | 5% |
| | | | | 112600-0728 | | | 3000K - 1863lm - CRI≥80 | | 1h | 5% |
| LED | white | 0.80 | 280 | 112601-07 | | 24 | 4000K - 2898lm - CRI≥80 | | 1h | 4% |
| | | | | 112601-0728 | | | 3000K - 2695lm - CRI≥80 | | 1h | 4% |

745 Oblò J 2.0 - EM 3h

EM
S.A.

| LED | colour | weight | Ø mm | CLD E | | W tot | LUMEN OUTPUT (tq= 25 °C) | | % EM operation | |
|-----|--------|--------|------|-------------|--|-------|--------------------------|--|----------------|----|
| | | | | code | | | K - ølm - CRI | | h | % |
| LED | white | 0.80 | 280 | 112600-31 | | 19 | 4000K - 2026lm - CRI≥80 | | 3h | 5% |
| | | | | 112600-3128 | | | 3000K - 1863lm - CRI≥80 | | 3h | 5% |
| LED | white | 0.80 | 280 | 112601-31 | | 24 | 4000K - 2898lm - CRI≥80 | | 3h | 3% |
| | | | | 112601-3128 | | | 3000K - 2695lm - CRI≥80 | | 3h | 3% |

745 Oblò J 2.0 - EM EC

-0050
EM-EC

| LED | colour | weight | Ø mm | CLD EC | | W tot | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|--------|------|-------------|--|-------|--------------------------|--|
| | | | | code | | | K - ølm - CRI | |
| LED | white | 0.80 | 280 | 112600-0050 | | 16 | 4000K - 2026lm - CRI≥80 | |
| | | | | 112600-3950 | | | 3000K - 1863lm - CRI≥80 | |
| LED | white | 0.80 | 280 | 112601-0050 | | 21 | 4000K - 2898lm - CRI≥80 | |
| | | | | 112601-3950 | | | 3000K - 2695lm - CRI≥80 | |

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

Oblò J 2.0

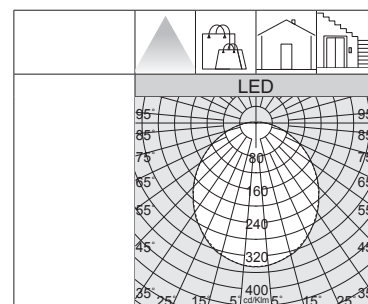
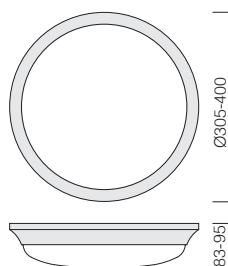
Housing: vandal-resistant, self-extinguishing polycarbonate.

Diffuser: In clear polycarbonate, anti-dazzle, vandal resistant.

LED: power factor >0.9. Luminous flux maintenance 80%: 50.000h (L80B20). Photobiological safety class: exempt group.



IP54 IK07

L70
B50
40.000h

RG0

+35
C°
+5

3000K

4000K

Tortuga - EM 3h S.A.

| | | CLD E | | LUMEN OUTPUT (tq= 25 °C) | | % EM operation | | |
|---------|--------|--------|------|--------------------------|-------|-------------------------|----|-------|
| LED | colour | weight | Ø mm | code | W tot | K - ølm - CRI | h | % |
| (1) LED | white | 1.00 | 305 | 22042410-09 | 18 | 3000K - 1436lm - CRI>80 | 3h | 12,5% |
| | | | | 22042411-09 | | 4000K - 1562lm - CRI>80 | 3h | 12,5% |
| (2) LED | white | 1.15 | 400 | 22042412-09 | 30 | 3000K - 2523lm - CRI>80 | 3h | 7% |
| | | | | 22042413-09 | | 4000K - 2744lm - CRI>80 | 3h | 7% |

EM
S.A.

Tortuga - EM EC

| | | CLD EC | | | LUMEN OUTPUT (tq= 25 °C) | |
|---------|--------|--------|------|---------------|--------------------------|-------------------------|
| LED | colour | weight | Ø mm | code | W tot | K - ølm - CRI |
| (1) LED | white | 1.00 | 305 | 22042410-0050 | 17 | 3000K - 1436lm - CRI>80 |
| | | | | 22042411-0050 | | 4000K - 1562lm - CRI>80 |
| (2) LED | white | 1.15 | 400 | 22042412-0050 | 28 | 3000K - 2523lm - CRI>80 |
| | | | | 22042413-0050 | | 4000K - 2744lm - CRI>80 |

-0050
EM-EC

Tortuga

Round-shape LED fixture with opal polycarbonate diffuser that can be easily installed to the ceiling/wall; ideal for entrance areas, corridors, stairways, waiting rooms, hotels, restaurants and residential spaces.

Available in two sizes (ø305/400 mm) and in the standard 3000K/4000K version and in the 3h emergency version with light-presence sensor (ON-OFF).

Tortuga is the energy-efficient and modern alternative to luminaires with traditional light sources.

Housing: vandal-resistant, self-extinguishing polycarbonate.

Diffuser: In clear polycarbonate, anti-dazzle, vandal resistant.

LED: power factor >0.9. Luminous flux maintenance 70%: 40.000h (L70B50). Photobiological safety class: exempt group.

L80
B20
25.000h



+35
°C
+5

4000K
5700K

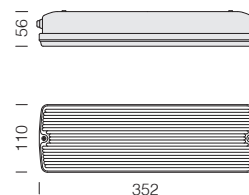


The main feature of this fixture is the new colour-changing technology. With **two built-in switches** you can:

- select 2 different colour temperatures, adjusting to most installations
- select the type of output luminous flux and power.



IP65IK08



621 Safety 2.0 - EM 1h S.E. - Only emergency

EM
S.E.

| | | CLD CEM-L | | W tot | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|-----------|-----------|-------|--------------------------|---------------------------|
| LED | colour | weight | code | | Kelvin | K - ølm - CRI |
| LED | white | 1.00 | 112533-00 | 1 | 4000K/5700K | 70lm/110lm/150lm - CRI 80 |
| | | | 112534-00 | | 4000K/5700K | 200lm/300lm - CRI 80 |
| | | | 112536-00 | | 4000K/5700K | 400lm - CRI 80 |

Standard supply: equipped with a switch for adjusting light flux and colour temperature (CCT); standard configuration is 5700K and maximum power/flux values.

EM S.E. (Only Emergency):

during a blackout, the luminaire connected to the emergency circuit will switch on, preventing any inconvenience caused by the sudden loss of lighting. It offers an autonomy of 60/180 minutes. The battery automatically recharges once the power is restored.

622 Safety 2.0 - EM 1h S.A. - Maintained

EM
S.A.

| | | CLD CEM-L | | W tot | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|-----------|-----------|-------|--------------------------|----------------------------|
| LED | colour | weight | code | | Kelvin | K - ølm - CRI |
| LED | white | 1.00 | 112543-00 | 2/3/4 | 4000K/5700K | 110lm/130lm/175lm - CRI 80 |
| | | | 112544-00 | 5/7 | 4000K/5700K | 200lm/300lm - CRI 80 |
| | | | 112546-00 | 7 | 4000K/5700K | 400lm - CRI 80 |

Standard supply: equipped with a switch for adjusting light flux and colour temperature (CCT); standard configuration is 5700K and maximum power/flux values.

EM S.A. (Maintained):

during a blackout, the luminaire connected to the emergency circuit stays on, preventing any inconvenience caused by the sudden loss of lighting. It offers an autonomy of 60/180 minutes. The battery automatically recharges once the power is restored.

623 Safety 2.0 - EM 3h S.E. - AUTOTEST - Only emergency

EM
S.E.

| | | CLD CEM-L (AUTOTEST) | | W tot | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|----------------------|-----------|-------|--------------------------|---------------------------|
| LED | colour | weight | code | | Kelvin | K - ølm - CRI |
| LED | white | 1.00 | 112563-00 | 1 | 4000K/5700K | 70lm/110lm/150lm - CRI 80 |
| | | | 112564-00 | | 4000K/5700K | 200lm/300lm - CRI 80 |
| | | | 112566-00 | | 4000K/5700K | 400lm - CRI 80 |

Standard supply: equipped with a switch for adjusting light flux and colour temperature (CCT); standard configuration is 5700K and maximum power/flux values.

Safety with AUTOTEST button:

provides real-time information on the status of the luminaire, automatically performing all the tests indicated in the UNI-EN-50172 standard. A simple way to reduce costs and make system inspection and maintenance easier. Anyone can supervise the emergency lighting system.

624 Safety 2.0 - EM 3h S.A. - AUTOTEST - Maintained

EM
S.A.

| | | CLD CEM-L (AUTOTEST) | | W tot | v | |
|-----|--------|----------------------|-----------|-------|-------------|----------------------------|
| LED | colour | weight | code | | Kelvin | K - ølm - CRI |
| LED | white | 1.00 | 112573-00 | 2/3/4 | 4000K/5700K | 110lm/130lm/175lm - CRI 80 |
| | | | 112574-00 | 5/7 | 4000K/5700K | 200lm/300lm - CRI 80 |
| | | | 112576-00 | 7 | 4000K/5700K | 400lm - CRI 80 |

Standard supply: equipped with a switch for adjusting light flux and colour temperature (CCT); standard configuration is 5700K and maximum power/flux values.

acc. 315 outer shell



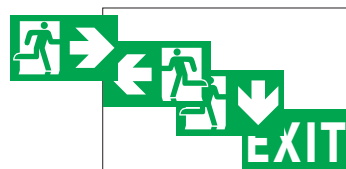
| | |
|-------|-----------|
| white | 995212-00 |
|-------|-----------|

Made in polycarbonate. For recessed installation of Safety 2.0.

acc. 472 labels for Safety 2.0

| | |
|-----------|-----------|
| right out | 995137-00 |
| left out | 995138-00 |
| down out | 995139-00 |
| exit | 995144-00 |

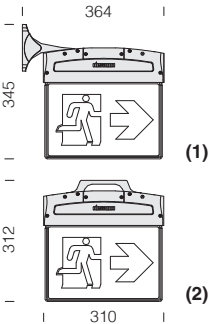
Self-adhesive pictograms available and visible up to 35 m. UNI EN1838.



| | | |
|---|---|--|
| Short monthly functional test | The luminaire switches to EM mode for 30 seconds, then goes back to normal operation. | Button pressed for 1sec approx. |
| Long monthly functional test | The luminaire switches to EM mode for 5 seconds, then goes back to normal operation. | Button pressed for 3sec approx. |
| Complete semester/annual functional test | At the start of the test, the red LED indicator flashes slowly for 15 seconds: • if the battery is <u>not fully charged</u> , the luminaire reverts to normal operation • if the battery is <u>fully charged</u> , the luminaire operates in EM mode for 3 hours, then switches back to normal operation. | Button pressed for 5sec approx. |
| Interruption of duration test; the luminaire switches to normal operation | The luminaire resumes normal operation; the self-test counter for monthly and annual tests resets to 0. | Button pressed for 8sec approx. |



IP40IK07



(1)



(2)

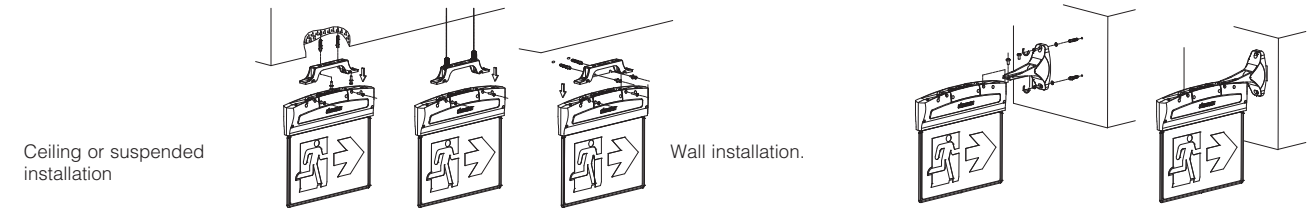


620 Safety - EM 1h/3h S.A.

| | | CLD CEM-L | | LED (tj= 25 °C) | |
|-----|--------|-----------|-----------|-----------------|----------------|
| LED | colour | weight | code | W tot | K - ølm - CRI |
| LED | white | 1.00 | 112581-00 | 5 | 6000K - CRI>80 |



Equipment: supplied with accessories for wall, ceiling or suspended installation.



acc. 470 labels for art. 620

| | |
|-----------|-----------|
| right out | 995133-00 |
| left out | 995134-00 |
| down out | 995135-00 |
| exit | 995136-00 |

Self-adhesive pictograms available and visible up to 37 m. UNI EN1838.

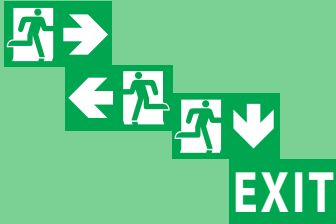
Safety Flag

Housing: in plastic material.

Diffuser: in transparent plexiglass.

Equipment: supplied with accessories for wall, ceiling or suspended installation.

Version: emergency run time: 60/180 minutes. When power is restored, the battery recharges automatically in 12/24h hours.



L80
B50
60.000h

RG0

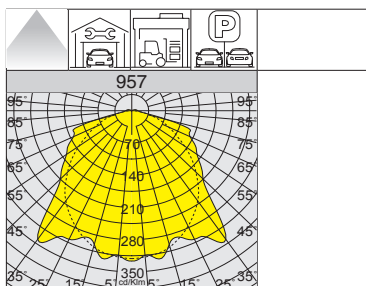


+35
C°
+5

NO

LOW
FLICKER

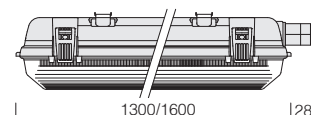
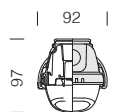
4000K



CLD D-D (DALI) -0041 version



IP66IK08



957 Echo HE - EM 1h - single LED module

| LED | colour | CLD E | | | W tot | LUMEN OUTPUT (tq= 25 °C) | | % EM operation | |
|-----|--------|--------|------|-----------|-------|--------------------------|--|----------------|----|
| | | weight | L | code | | K - ølm - CRI | | h | % |
| LED | grey | 2.00 | 1300 | 164730-07 | 39 | 4000K - 6231lm - CRI≥80 | | 1h | 9% |
| | | 3.00 | 1600 | 164736-07 | 51 | 4000K - 7946lm - CRI≥80 | | 1h | 7% |

957 Echo HE - EM ED 1h - single LED module

| LED | colour | CLD ED | | | W tot | LUMEN OUTPUT (tq= 25 °C) | | % EM operation | |
|-----|--------|--------|------|-----------|-------|--------------------------|--|----------------|----|
| | | weight | L | code | | K - ølm - CRI | | h | % |
| LED | grey | 2.00 | 1300 | 164730-95 | 39 | 4000K - 6231lm - CRI≥80 | | 1h | 9% |
| | | 3.00 | 1600 | 164736-95 | 51 | 4000K - 7946lm - CRI≥80 | | 1h | 7% |

957 Echo HE - EM AD 1h - single LED module

| LED | colour | CLD - Self-diagnosis | | | W tot | LUMEN OUTPUT (tq= 25 °C) | | % EM operation | |
|-----|--------|----------------------|------|-------------|-------|--------------------------|--|----------------|----|
| | | weight | L | code | | K - ølm - CRI | | h | % |
| LED | grey | 2.00 | 1300 | 164730-0766 | 39 | 4000K - 6231lm - CRI≥80 | | 1h | 9% |
| | | 3.00 | 1600 | 164736-0766 | 51 | 4000K - 7946lm - CRI≥80 | | 1h | 7% |

957 Echo HE - EM EC - single LED module

| LED | colour | CLD EC | | | W tot | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|--------|------|-------------|-------|--------------------------|--|
| | | weight | L | code | | K - ølm - CRI | |
| LED | grey | 2.00 | 1300 | 164730-0050 | 39 | 4000K - 6231lm - CRI≥80 | |
| | | 3.00 | 1600 | 164736-0050 | 51 | 4000K - 7946lm - CRI≥80 | |

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

Echo

Housing: injection moulded, vandal resistant, UV stabilised RAL 7035 grey polycarbonate, high mechanical resistance thanks to the stiffening ribs inside the structure.

Diffuser: injection moulded V2 self-extinguishing, UV stabilised clear polycarbonate, prismatic inside for better light control. The smooth outside finishing facilitates cleaning, essential to ensure maximum lighting efficiency at all times.

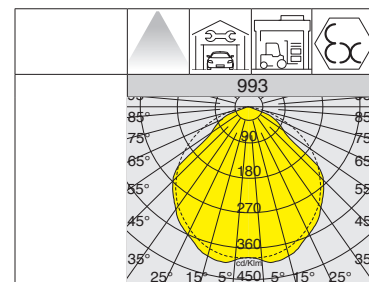
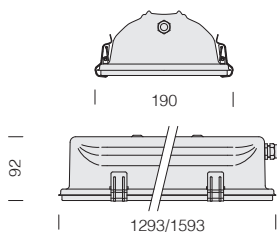
Reflector: in galvanised steel, previously stove-enamelled with UV-stabilised polyester resin.

Equipment: plug connector. Material compatible with food industry environments. Mounting is also possible at low or very low temperatures (instant start and no flux decay).

For applications with direct exposure to sunlight, we recommend using Forma LED. Check the compatibility between the material constituting the product and the space where it will be installed.

LED: power factor: ≥0,9. Luminous flux maintenance 80%: 60.000h (L80B50). Photobiological safety class: exempt group.

IP65IK08



L80
B20
50.000h

RG0

U.V.

+40
C
-20

LOW
FLICKER

4000K

0050
EM-EC

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

993 Forma ATEX - EM EC - with transparent glass

| LED | colour | CLD EC | | | | LUMEN OUTPUT (tq= 25 °C) | |
|-----|--------|--------|------|-------------|-------|--------------------------|--|
| | | weight | L | v | W tot | K - ølm - CRI | |
| LED | grey | 7.20 | 1293 | 162495-0050 | 45 | 4000K - 6000lm - CRI≥80 | |
| | | 9.00 | 1593 | 162496-0050 | 65 | 4000K - 9264lm - CRI≥80 | |

| 993 ATEX | |
|-------------------------------|---|
| Protection against explosions | II 3G Ex nA OP IS IIC T4 IP65 Gc II 3D Ex tc IIIC T135°C IP65 Dc |
| Allowed dangerous area | Zone 2; Zone 22 |
| Allowed room temperature | -20°C ÷ +40°C |
| Degree of protection | IP65 |
| Installation | ceiling - suspension |
| Casing mechanical resistance | IK08 |
| Reference regulations | EN 60079-0; EN 60079-15; EN 60079-31; EN 60079-28 |

Forma ATEX

Housing: made of pressed steel, drawn in a single piece for high mechanical resistance. Supplied with frame.

Diffuser: impact-resistant transparent tempered glass.

Coating: the standard powder coating consists of a first metal surface pre-treatment stage and of single layer of UV-stabilised, corrosion and salt resistant polyester powder coating.

Standard supply: silicone rubber gasket. M20 nickel-plated brass cable gland. Locking system in stainless steel.

LED: power factor: ≥0,9. Luminous flux maintenance 80%: 80.000h (L80B20). Photobiological safety class: exempt group.



Astro Q

Housing/Frame: in die-cast aluminium with cooling fins integrated into the cover and designed with a very small surface exposed to wind.

Lenses: in PMMA, highly resistant to temperature and UV radiation.

Diffuser: art. 2900-2901-2902 with tempered glass, 4 mm thick, resistant to thermal shocks and impacts (UNI-EN 12150-1: 2001).

Coating: the standard powder coating consists of a first metal surface pre-treatment stage and of single layer of UV-stabilised, corrosion and salt resistant polyester powder coating.

Standard supply: the fixture is equipped with air recirculation valve and insulation connector for quick installation with **no need to open the fixture**; silicone rubber gasket; external screws and bolts in stainless steel. temperature control inside the device with automatic resetting.

LED: power factor ≥ 0.95 . Luminous flux maintenance 90%: 100.000h (L90B10). Photobiological safety class: exempt group.

IP66IK08





200W=4kV
250W=4kV
300W=4kV
350W=6kV

SURGE



L90 B10
100.000h

RG0
Etrn

+50 °C
-40 °C

LOW FLICKER

4000K

EM EC: with emergency wiring supplied by centralised power unit: permanent luminaire, with power supply unit operating in AC/DC, powered by a central emergency unit (NOT incorporated into the luminaire).

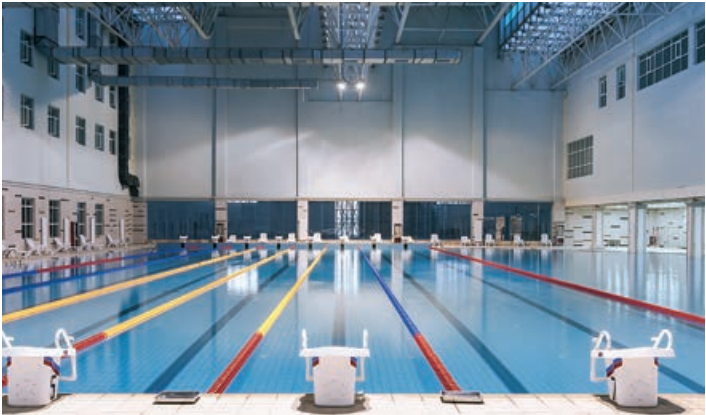
Note: the standard version operates at 100% of its luminous flux (lm).

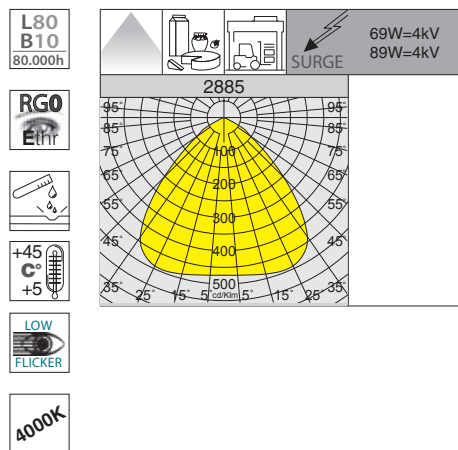
Upon request: rates of luminous flux (lm) can be customised but with a minimum level of 15%.

| 2900 Astro Q1 - EM EC - UGR<22 - 70° | | | | | | |
|--------------------------------------|----------|--------|-------------|-------|--------------------------|--|
| LED | colour | weight | CLD EC | W tot | LUMEN OUTPUT (tq= 25 °C) | |
| | | | code | | K - oIm - CRI | |
| LED | RAL 7021 | 10.00 | 380000-0050 | 200 | 4000K - 34000lm - CRI 80 | |
| | | | 380001-0050 | 250 | 4000K - 41000lm - CRI 80 | |
| | | | 380002-0050 | 300 | 4000K - 49000lm - CRI 80 | |
| | | | 380003-0050 | 350 | 4000K - 55000lm - CRI 80 | |

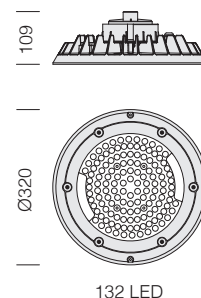


| 2901 Astro Q1 - EM EC - UGR<25 - 90° | | | | | | |
|--------------------------------------|----------|--------|-------------|-------|--------------------------|--|
| LED | colour | weight | CLD EC | W tot | LUMEN OUTPUT (tq= 25 °C) | |
| | | | code | | K - oIm - CRI | |
| LED | RAL 7021 | 10.00 | 380010-0050 | 200 | 4000K - 34000lm - CRI 80 | |
| | | | 380011-0050 | 250 | 4000K - 41000lm - CRI 80 | |
| | | | 380012-0050 | 300 | 4000K - 49000lm - CRI 80 | |
| | | | 380013-0050 | 350 | 4000K - 55000lm - CRI 80 | |





IP66IK08

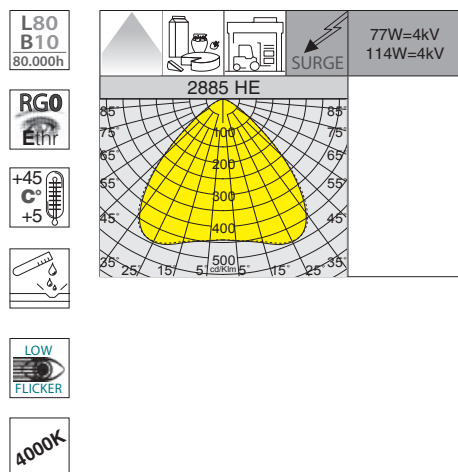


2885 Saturno Ø320 HE - EM 1h - wide beam

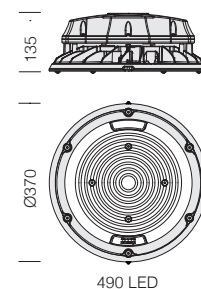


| LED | colour | weight | Ø | CLD E | | LUMEN OUTPUT (tq= 25 °C) | | % EM operation | |
|-----|----------|--------|-----|-----------|-------|--------------------------|--|----------------|----|
| | | | | code | W tot | K - ølm - CRI | | h | % |
| LED | RAL 7021 | 2.00 | 320 | 330755-07 | 69 | 4000K - 10263lm - CRI 80 | | 1h | 6% |
| | | 3.00 | | 330754-07 | 89 | 4000K - 12670lm - CRI 80 | | 1h | 4% |

Emergency version: acc.1175 (997651-00) to be purchased separately.



IP66IK08



2885 Saturno Ø370 HE - EM 1h



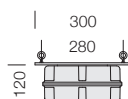
| LED | colour | weight | Ø | CLD E | | LUMEN OUTPUT (tq= 25 °C) | | % EM operation | |
|-----|----------|--------|-----|-----------|-------|--------------------------|--|----------------|----|
| | | | | code | W tot | K - ølm - CRI | | h | % |
| LED | RAL 7021 | 5.00 | 370 | 330775-07 | 77 | 4000K - 16340lm - CRI 80 | | 1h | 6% |
| | | | | 330777-07 | 114 | 4000K - 22024lm - CRI 80 | | 1h | 4% |

Versión en emergencia: comprar a parte el acc.1175 (997651-00).

acc. 1175 Box

997651-00

To be used when purchasing Saturno EM version, with sub-code -07.



Saturno

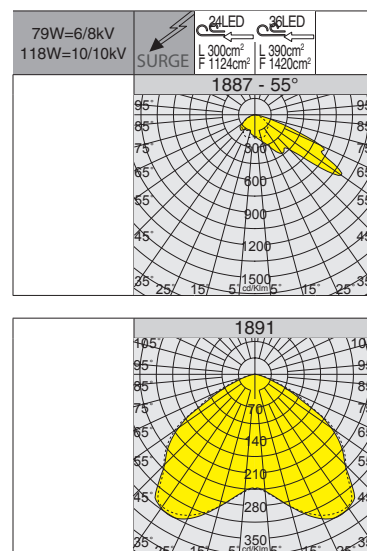
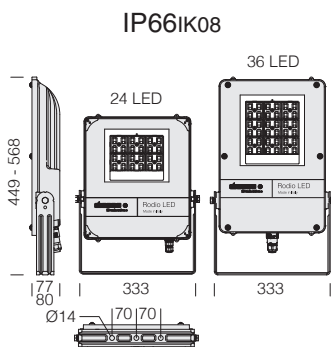
Housing: in die-cast aluminium with cooling fins.

Diffuser: 4mm thick tempered glass, resistant to thermal shocks and impacts (UNI-EN 12150-1: 2001) or in special polycarbonate material, ideal for the food industry.

Coating: the standard powder coating consists of a first metal surface pre-treatment stage and of single layer of UV-stabilised, corrosion and salt resistant polyester powder coating.

Equipment: the fixture is equipped with air recirculation valve and insulation connector for quick installation with **no need to open the fixture**; silicone rubber gasket; external screws and bolts in stainless steel.

LED: power factor ≥0.95. Luminous flux maintenance 80%: 80.000h (L80B10). Photobiological safety class: exempt group.


**L80
B20**
80.000h

RG0
EhT

+35
C°
+5

**LOW
FLICKER**
3000K
4000K
**EM
S.A.**

1887 Rodio - EM 1h - asymmetric

| | | CLD E | | W tot | LÚMENES DE SALIDA (tq= 25 °C) | | % EM operation | |
|------------|----------|--------|-------------|------------|--------------------------------|-----------|----------------|--|
| LED | colour | weight | code | | K - ølm - CRI - degrees | h | % | |
| LED | graphite | 5.70 | 414755-07 | 79 | 4000K - 12968lm - CRI 80 - 45° | 1h | 5% | |
| | | | 414755-0728 | | 3000K - 12060lm - CRI 80 - 45° | 1h | 5% | |
| LED | graphite | 6.30 | 414756-07 | 118 | 4000K - 18934lm - CRI 80 - 45° | 1h | 3% | |
| | | | 414756-0728 | | 3000K - 17610lm - CRI 80 - 45° | 1h | 3% | |
| LED | graphite | 6.30 | 414752-07 | | 4000K - 18856lm - CRI 80 - 55° | 1h | 3% | |
| | | | 414752-0728 | | 3000K - 17536lm - CRI 80 - 55° | 1h | 3% | |

1891 Rodio - EM 1h - symmetric wide beam

| | | CLD E | | W tot | LÚMENES DE SALIDA (tq= 25 °C) | | % EM operation | |
|------------|----------|--------|-------------|------------|-------------------------------|-----------|----------------|--|
| LED | colour | weight | code | | K - ølm - CRI | h | % | |
| LED | graphite | 5.70 | 414785-07 | 78 | 4000K - 12717lm - CRI 80 | 1h | 5% | |
| | | | 414785-0728 | | 3000K - 11827lm - CRI 80 | 1h | 5% | |
| LED | graphite | 6.30 | 414786-07 | 118 | 4000K - 18569lm - CRI 80 | 1h | 3% | |
| | | | 414786-0728 | | 3000K - 17269lm - CRI 80 | 1h | 3% | |

**EM
S.A.**

Rodio

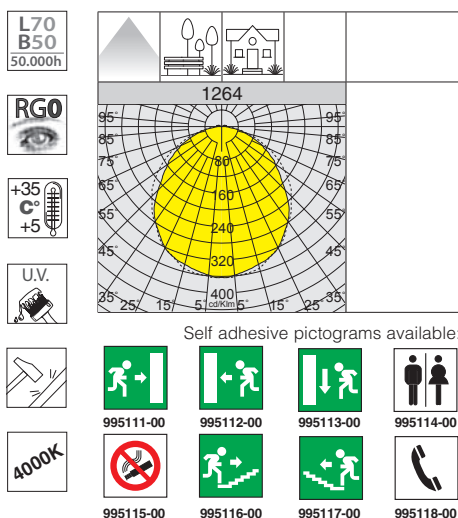
Housing: in die-cast aluminium with cooling fins.

Diffuser: 5mm thick tempered glass, resistant to thermal shocks and impacts (UNI-EN 12150-1 : 2001).

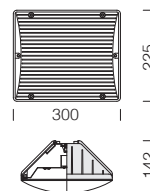
Coating: the standard powder coating consists of a first metal surface pre-treatment stage and of single layer of UV-stabilised, corrosion and salt resistant polyester powder coating.

Equipment: complete with galvanised and coated bracket. Silicone rubber gasket; external screws and bolts in stainless steel; air recirculation valve. Airtight connector for quick installation with **no need to open the fixture**.

LED: power factor ≥0.9. Luminous flux maintenance 80%: 80.000h (L80B20). Photobiological safety class: exempt group.



IP65IK08



1264 Vega - EM 1h

| LED | colour | weight | CLD E | W tot | LUMEN OUTPUT (tq= 25 °C) | % EM operation | |
|-----|--------|--------|-----------|-------|--------------------------|----------------|-----|
| | | | code | | K - ølm - CRI | h | % |
| LED | black | 1.80 | 420665-07 | 12 | 4000K - 1760lm - CRI 70 | 1h | 38% |
| | grey | | 420666-07 | | | | |

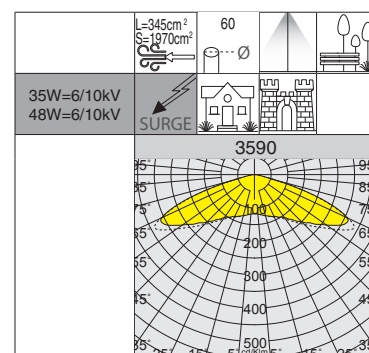
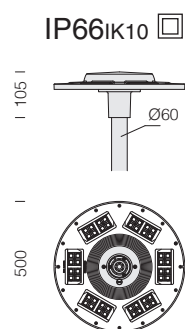
Vega

Housing: in nylon UV-stabilised.

Reflector: hammered aluminium.

Diffuser: anti-glare, vandal resistant, V2 selfExtinguishing, UV-stabilised matt polycarbonate.

LED: power factor ≥0.9. Luminous flux maintenance 70%: 50.000h (L70B50). Photobiological safety class: exempt group.



**L80
B20**
80.000h

RG0
Etrr

+35
C
+5

LOW
FLICKER

LOW
FLICKER

3000K

4000K

EM
S.A.

3590 Ischia - EM 1h - roto-symmetric wide beam RW

| LED | colour | weight | CLD E | W tot | LUMEN OUTPUT (tq= 25 °C) | % operación en EM | |
|-----|----------|--------|-------------|-------|--------------------------|-------------------|-----|
| | | | code | | K - ølm - CRI | h | % |
| LED | graphite | 4.50 | 424660-07 | 35 | 4000K - 4624lm - CRI 70 | 1h | 11% |
| | | | 424660-0728 | | 3000K - 4393lm - CRI 70 | 1h | 11% |
| LED | graphite | 4.50 | 424661-07 | 48 | 4000K - 5874lm - CRI 70 | 1h | 8% |
| | | | 424661-0728 | | 3000K - 5580lm - CRI 70 | 1h | 8% |

Ischia

Housing: pressed in die-cast aluminium.

Pole connection: pressed in die-cast aluminium. Suited for poles with a diameter 60 mm.

Diffuser: polycarbonate 2,5 mm thick, thermal shock and impact resistant (UNI-EN 12150-1: 2001).

Coating: the standard powder coating consists of a first metal surface pre-treatment stage and of single layer of UV-stabilised, corrosion and salt resistant polyester powder coating.

Upon request: coating for marine environments (seafront) in compliance with UNI EN ISO 9227.

LED: power factor ≥0.9. Luminous flux maintenance 80%: 80.000h (L80B20). Photobiological safety class: exempt group.



disano 
illuminazione

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