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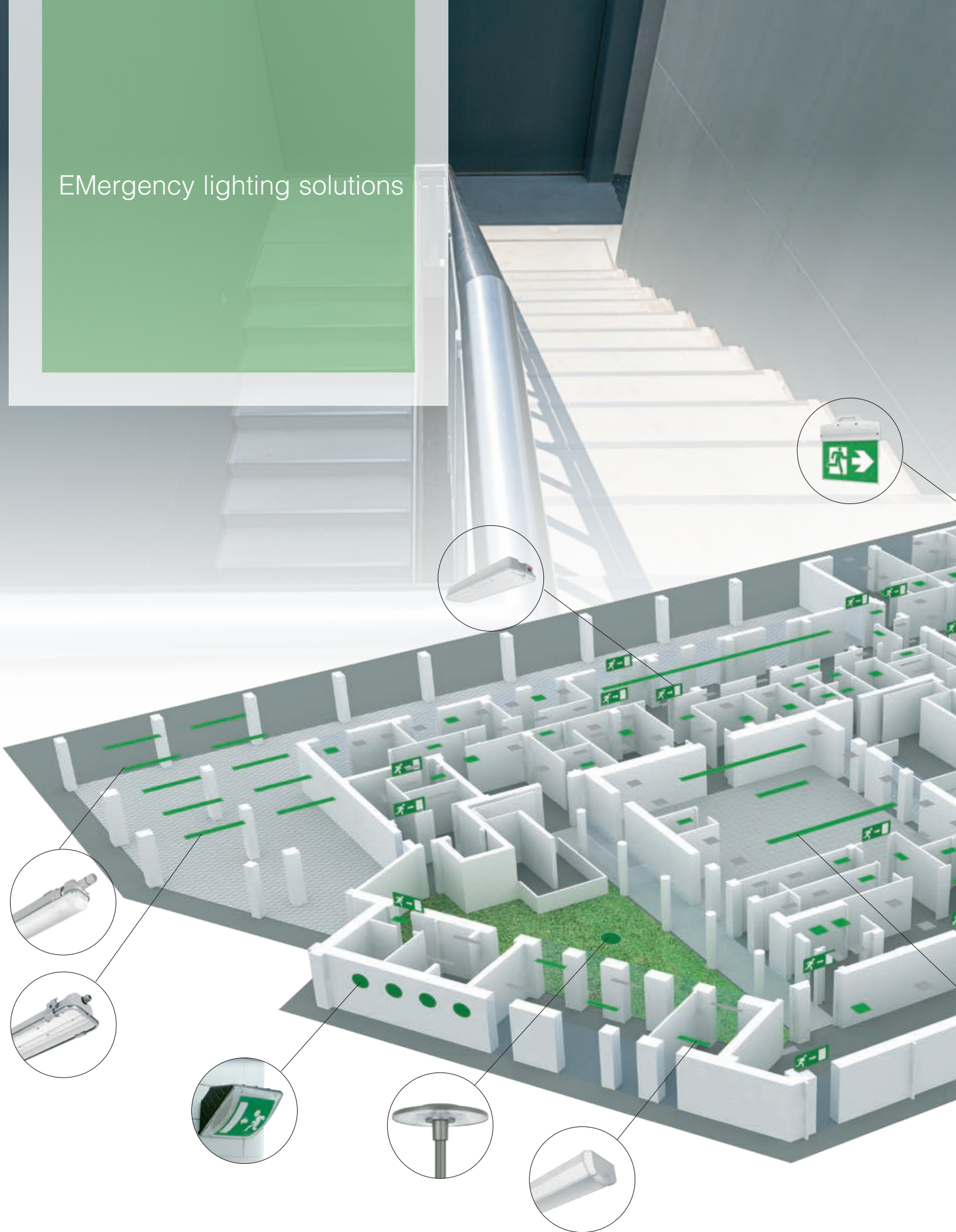


**fosnova**

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

	<p>Fixtures wired with PUSH DALI digital dimmable electronic power supply.</p>		<p>Produced with vandal resistant materials.</p>		<p>Risk Group 0 (RG0): luminaires are exempt from photobiological risks in compliance with standard EN 62471.</p>
	<p>Life expectancy of the LED.</p>		<p>UV-stabilised coating, anti-yellowing. Fixture built with stabilised materials.</p>		<p>Products compliant with ball impact resistance test standard DIN 18032-3: 2018.</p>
	<p>Class II fixture (double insulation). No grounding needed.</p>		<p>Built with materials that are highly resistant to acid and toxic gas corrosion.</p>		<p><b>WATERPROOF FIXTURES</b> 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); <b>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.</b> Otherwise, use watertight fixtures in steel.</p> <p><b>Check the compatibility between the material constituting the product and the space where it will be installed</b></p>
	<p>Fixture surface area exposed to the wind.</p>		<p>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.</p>		
	<p>Minimum and maximum operating temperature. Ask for specific product temperature to our technical offices.</p>		<p>Product with a very low flicker; uniform light for greater eye protection.</p>		
	<p>Size of hole for recessed installation</p>		<p>Radial dark light optic unit 65° manufactured according to European EN 12464 Regulations. Suitable for uses in places fitted with video terminals</p>		



		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

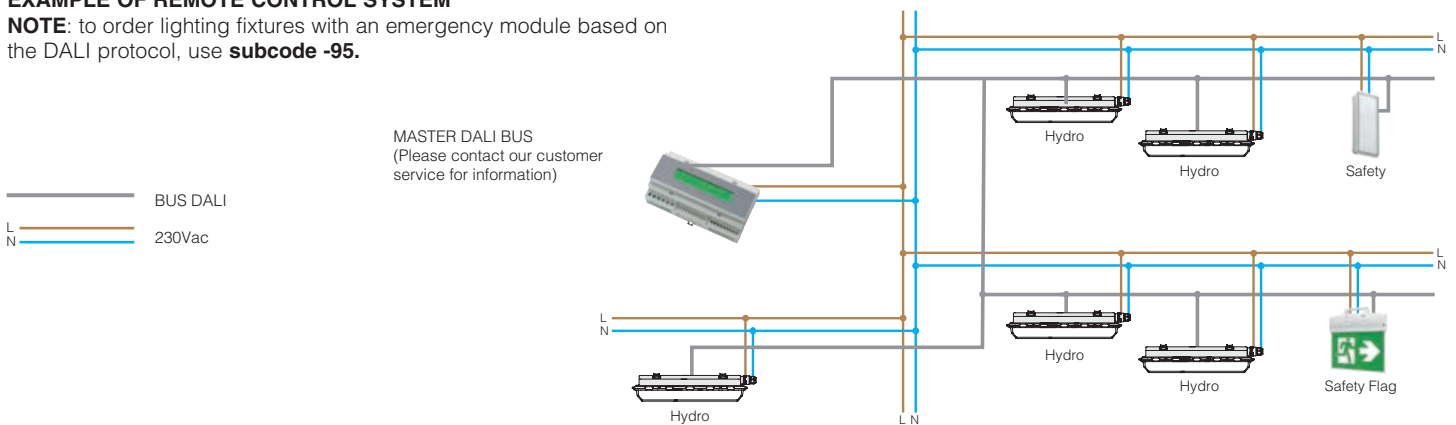
Therefore, any obstacle within two metres above ground level must be illuminated, ensuring there is no risk of bumping or tripping due to insufficient lighting conditions. Emergency lights and signage should be installed at a minimum height of two metres above ground level to ensure visibility even in 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:



### EXAMPLE OF REMOTE CONTROL SYSTEM

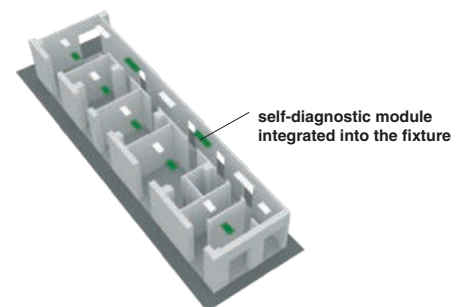
**NOTE:** to order lighting fixtures with an emergency module based on the DALI protocol, use **subcode -95**.



### 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



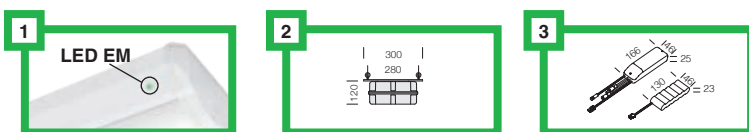
During a blackout, emergency lights ensure practical and safe operation, preventing any inconvenience caused by the sudden loss of lighting. They can be divided in:

- 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.

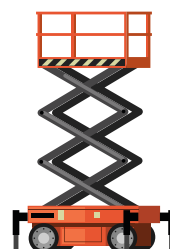
## EM Centralised -0050



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

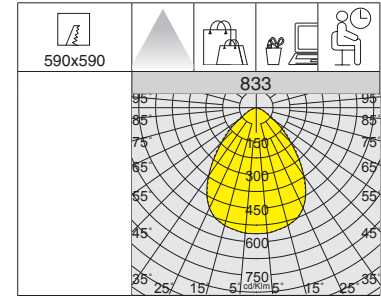
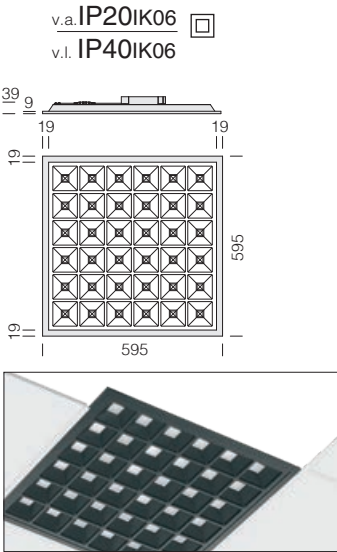
**Housing and frame:** housing in galvanised steel sheet, and frame in aluminium, contact mounting on the cross T structure.

**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  $\geq 0.95$ . Luminous flux maintenance 80%; 50.000h (L80B20). Photobiological safety class: exempt group.



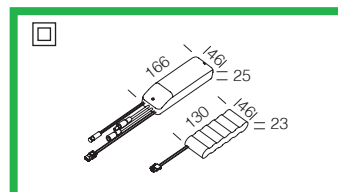
- L80 B20 50.000h
- RG0
- U.V.
- DIMM DIG
- LOW FLICKER
- 3000K
- 4000K

**833 Creta - UGR<17**

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



**acc. 600 EM power kit**

1h	986604-00
3h	986604-31

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



**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	



**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	



**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	



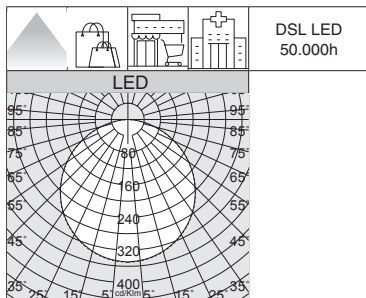
L80  
B20  
50.000h

RG0

U.V.

3000K

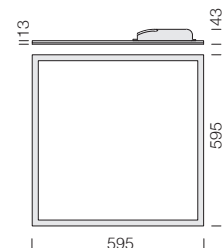
4000K



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

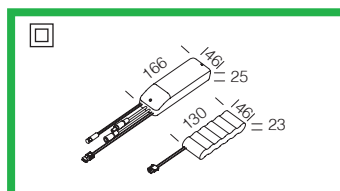
### Pannello B - DIP SWITCH

+ KIT  
EM

LED	colour	weight	CLD		I out	W tot	LUMEN OUTPUT (tq= 25 °C)		+ Kit EM		% EM operation	
			code				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%	
									22096035-00	1h	14%	
									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

LED	colour	weight	CLD - Self-diagnosis		I out	W tot	LUMEN OUTPUT (tq= 25 °C)	
			code				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

LED	colour	weight	CLD EC		I out	W tot	LUMEN OUTPUT (tq= 25 °C)	
			code				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  $\geq 0.95$ . Luminous flux maintenance 80%: 50.000h (L80B20).

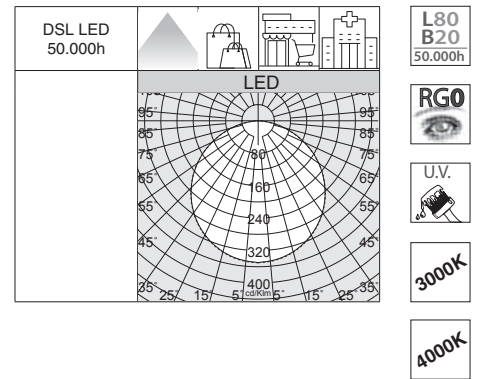
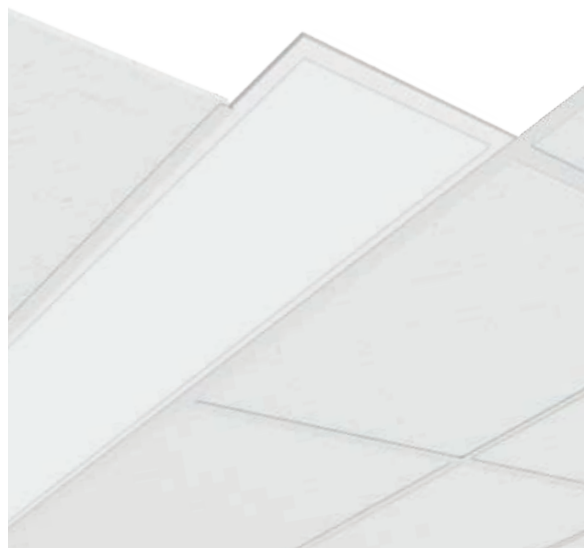
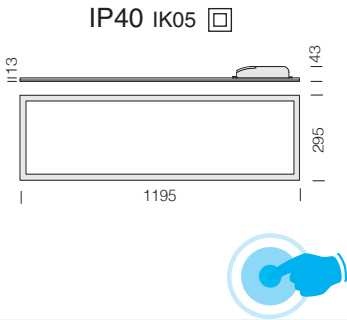
### ADAPT THE CURRENT TO ACHIEVE OPTIMAL LUMINOUS FLUX

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

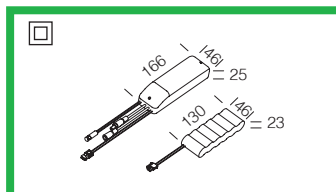
DIP SWITCH SETTING		
LUMEN OUTPUT (tq= 25 °C)		
I out	W tot	K - ølm - CRI
650	25	3000K - 2715lm - CRI>80
700	27	3000K - 2924lm - CRI>80
800	31	3000K - 3341lm - CRI>80
850	34	3000K - 3551lm - CRI>80

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

**Pannello B - R2 - DIP SWITCH**

LED	colour	weight	CLD	I out	W tot	LUMEN OUTPUT (tq= 25 °C)	+ Kit EM	% EM operation	
						K - ølm - CRI		h	%
LED	white	2.90	22185204-00	850	34	4000K - 3738lm - CRI>80	22096035-00	1h	12%
							22096037-00	3h	5%
						3000K - 3551lm - CRI>80	22096035-00	1h	12%
							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	I out	W tot	LUMEN OUTPUT (tq= 25 °C)	
						code	K - ølm - CRI
LED	white	2.90	22185204-0066	850	34	4000K - 3738lm - CRI>80	
						22185204-3966	3000K - 3551lm - 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 - R2 - EM EC - DIP SWITCH**

LED	colour	weight	CLD EC	I out	W tot	LUMEN OUTPUT (tq= 25 °C)	
						code	K - ølm - CRI
LED	white	2.90	22185204-0050	850	34	4000K - 3738lm - CRI>80	
						22185204-3950	3000K - 3551lm - CRI>80



L80  
B20  
50.000h

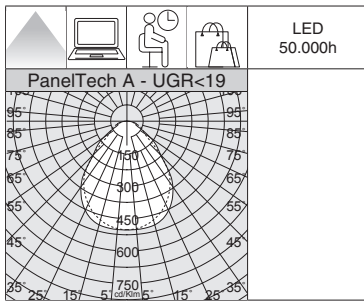
RG0

U.V.

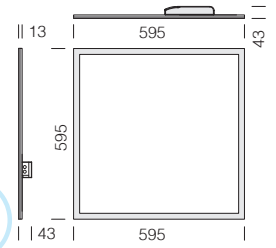
LOW  
FLICKER

3000K

4000K



IP40 IK05



DIP SWITCH SETTING			LUMEN OUTPUT (tq= 25 °C)	
I out	W tot	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			LUMEN OUTPUT (tq= 25 °C)	
I out	W tot	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

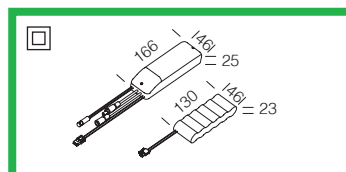
## PanelTech A - UGR<19 - DIP SWITCH

+ KIT  
EM

LED	colour	weight	CLD		LUMEN OUTPUT (tq= 25 °C)		+ Kit EM		% EM operation	
			code		I out	W tot	K - ølm - CRI	h	%	
LED	white	2.90	22184802-00		950	31	4000K - 3385lm - CRI>80	22096035-00	1h	13%
			22184802-39					22096037-00	3h	6%
LED	white	2.90	22184802-00		950	31	4000K - 3385lm - CRI>80	22096035-00	1h	13%
			22184802-39					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		LUMEN OUTPUT (tq= 25 °C)		
			code		I out	W tot	K - ølm - CRI
LED	white	2.90	22184802-0066		950	31	4000K - 3385lm - CRI>80
			22184802-3966				

**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		LUMEN OUTPUT (tq= 25 °C)		
			code		I out	W tot	K - ølm - CRI
LED	white	2.90	22184802-0050		950	31	4000K - 3385lm - CRI>80
			22184802-3950				

**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.

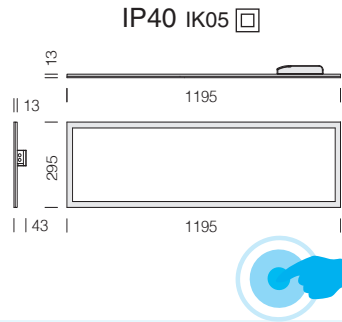
**LED:** power factor  $\geq 0.95$ . Luminous flux maintenance 80%: 50.000h (L80B20).

### 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.





LED 50.000h

**L80 B20**  
50.000h

**RG0**

U.V.

LOW FLICKER

**3000K**

**4000K**

PanelTech R2 - UGR<19

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

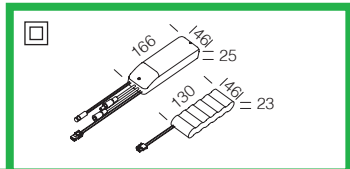
DIP SWITCH SETTING		
LUMEN OUTPUT (tq= 25 °C)		
I out	W tot	K - ølm - CRI
650	25	3000K - 2646lm - CRI>80
700	27	3000K - 2850lm - CRI>80
800	31	3000K - 3258lm - CRI>80
850	34	3000K - 3461lm - CRI>80

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

**PanelTech R2 - UGR<19 - DIP SWITCH**

LED	colour	weight	CLD code	LUMEN OUTPUT (tq= 25 °C)		+ Kit EM	% EM operation	
				I out	W tot		h	%
LED	white	2.90	22185205-00	800	31	22096035-00	1h	13%
			22185205-39			22096037-00	3h	6%
LED	white	2.90	22185205-00	800	31	22096035-00	1h	13%
			22185205-39			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.

**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 AD 1h - UGR<19 - DIP SWITCH**

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

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

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





L80  
B20  
50.000h

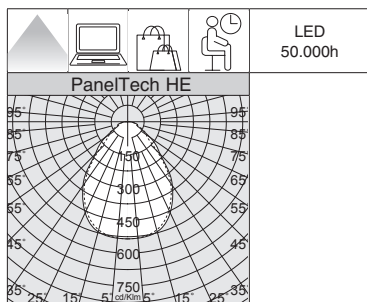
RG0

U.V.

DIMM  
DIG

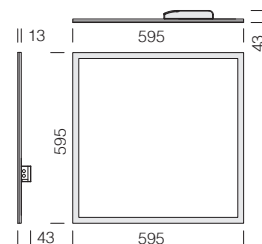
LOW  
FLICKER

4000K



REAL  
UGR<19!

IP40 IK05



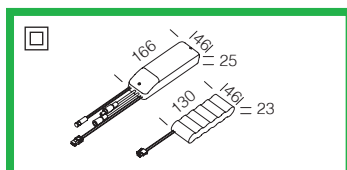
### PanelTech HE A2 - UGR<19

+ KIT  
EM

		CLD		CLD D-DIG (DALI)	LUMEN OUTPUT (tq= 25 °C)		+ Kit EM	% EM operation	
LED	colour	weight	code	code	W tot	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  
S.A.



#### 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

-95  
ED

		CLD ED		LUMEN OUTPUT (tq= 25 °C)	
LED	colour	weight	code	W tot	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

-0066  
AD

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

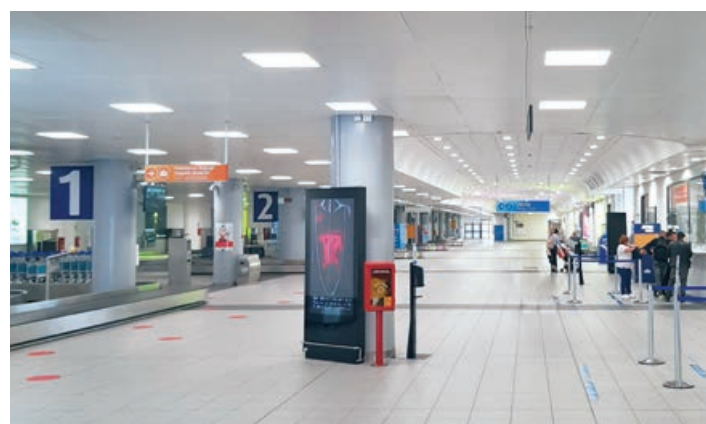
**EM AD 1h:** complete with emergency system and self-diagnosis module. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

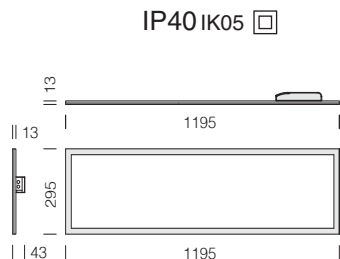
### PanelTech HE A2 - EM EC - UGR<19

-0050  
EM-EC

		CLD EC		LUMEN OUTPUT (tq= 25 °C)	
LED	colour	weight	code	W tot	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).





REAL UGR<19!

LED 50.000h  
REAL UGR<19!

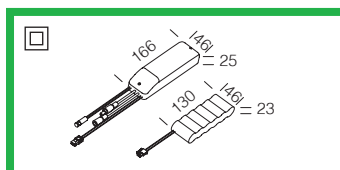
PanelTech HE

- L80 B20 50.000h
- RG0
- U.V.
- DIMM DIG
- LOW FLICKER
- 4000K

**PanelTech HE R2 - UGR<19**

		CLD		CLD D-DIG (DALI)	LUMEN OUTPUT (tq= 25 °C)		+ Kit EM	% EM operation	
LED	colour	weight	code	code	W tot	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.

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

**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.

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

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

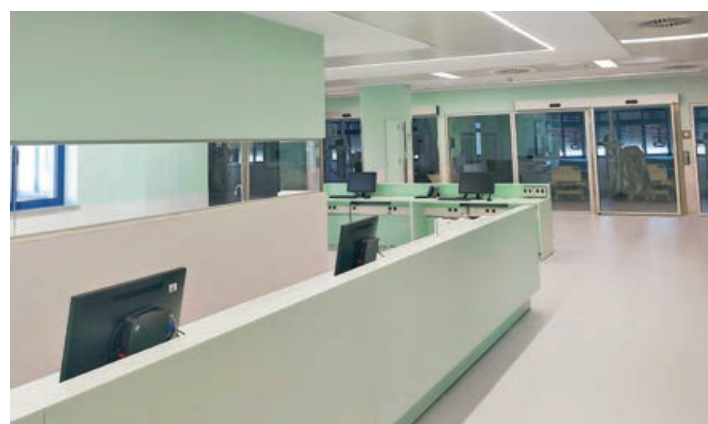
**EM AD 1h:** complete with emergency system and self-diagnosis module. W tot: when the battery is charging, the power consumption (W tot) will exceed 3 watts. During maintenance (when the battery is charging), the total power (W tot) will exceed a value ranging between 0.5 and 1 watt.

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

**PanelTech HE R2 - EM EC - UGR<19**

**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).

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



L90  
B10  
55.000h

RG0  
Etrr

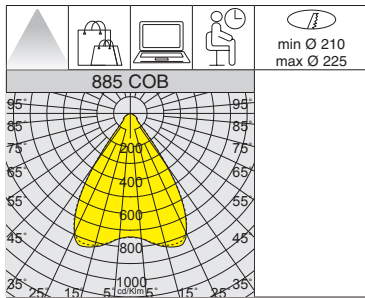
DIMM  
DIG

U.V.

LOW  
FLICKER

LOW  
FLICKER

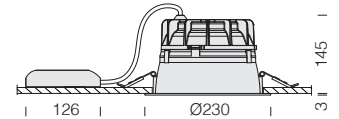
4000K



REAL  
UGR<19!



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



**DIP SWITCH SETTING**

I out	W tot	LUMEN OUTPUT (tq= 25 °C)	
		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	

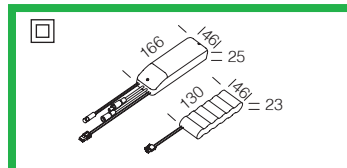
Lumen maintenance (lm) with EM kit:  
see table on page 7

**885 Compact Dark 1 - UGR<19 - DIP SWITCH**

LED	colour	weight	CLD		I out	W tot	LUMEN OUTPUT (tq= 25 °C)		+ kit EM acc 600		% EM operation	
			code	code			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**

LED	colour	weight	CLD ED		code	W tot	LUMEN OUTPUT (tq= 25 °C)	
			code				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**

LED	colour	weight	CLD - Self-diagnosis		code	W tot	LUMEN OUTPUT (tq= 25 °C)	
			code				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**

LED	colour	weight	CLD EC		code	W tot	LUMEN OUTPUT (tq= 25 °C)	
			code				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**

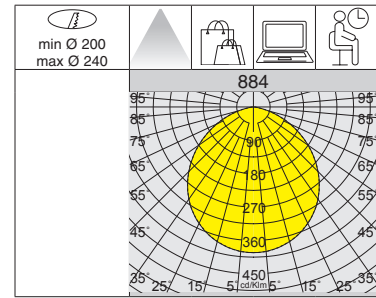
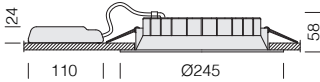
**DIP SWITCH SETTING:** the fixture comes with a DIP SWITCH driver for THE SETTING OF THE OUTPUT CURRENT. In this way you, can ENSURE THE BEST LUMINOUS FLUX for any lighting design.

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

## 884 Compact - CRI 95 - Ø245 - DIP SWITCH

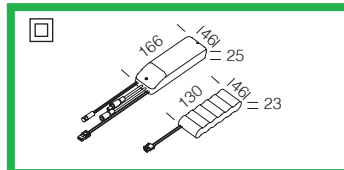
LED	colour	CLD		I out	W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI	+ kit EM acc 600		% EM operation	
		weight	code				h	%		
LED	white	0.60	156424-00	500	18	4000K - 2385lm - CRI 95	986605-00	1h	23%	
			156424-39				986605-31	3h	10%	
LED	white	0.60	156425-00	650	24	4000K - 3134lm - CRI 95	986605-00	1h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

3000K

4000K

+ KIT  
EM

**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.

DIP SWITCH SETTING		LUMEN OUTPUT (tq= 25 °C)	
I out	W tot	K - ølm - CRI	
250	9	4000K - 1200lm	CRI 95
350	13	4000K - 1720lm	CRI 95
400	14	4000K - 1830lm	CRI 95
450	16	4000K - 2120lm	CRI 95
500	18	4000K - 2385lm	CRI 95

DIP SWITCH SETTING		LUMEN OUTPUT (tq= 25 °C)	
I out	W tot	K - ølm - CRI	
250	9	3000K - 1130lm	CRI 95
350	13	3000K - 1630lm	CRI 95
400	14	3000K - 1760lm	CRI 95
450	16	3000K - 2010lm	CRI 95
500	18	3000K - 2266lm	CRI 95

## 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





L80  
B20  
50.000h

RG0

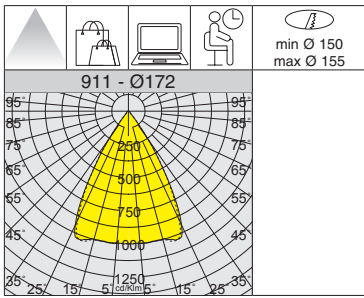
U.V.

DARK  
65% 500  
LIGH

LOW  
FLICKER

3000K

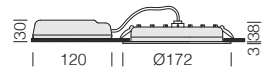
4000K



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

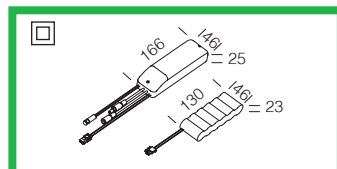
### 911 Health Dark - UGR<19 - Ø172 - DIP SWITCH

+ KIT  
EM

		CLD					LUMEN OUTPUT (tq= 25 °C)			+ Kit acc 600		% EM operation	
LED	colour	weight	Ø	code	I out	W tot	K - ølm - CRI				h	%	
LED	white	0.40	172	156473-00	500	19	4000K - 2490lm - CRI 80			986604-00	1h	22%	
				156473-39			3000K - 2316lm - CRI 80			986604-31	3h	9%	
									986604-00	1h	22%		
									986604-31	3h	9%		

**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.

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

-0066  
AD

		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

-0050  
EM-EC

		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  $\geq 0.9$ . Luminous flux maintenance 80%: 50.000h (L80B20).

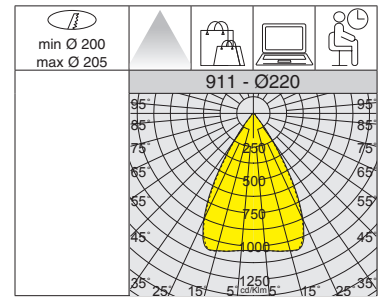
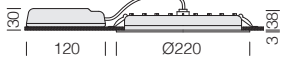
### ADAPT THE CURRENT TO ACHIEVE OPTIMAL LUMINOUS FLUX

**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  
LIGH#

LOW  
FLICKER

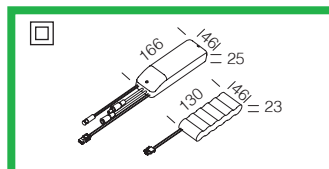
4000K

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

LED	colour	CLD			I out	W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI	+ Kit acc 600	% EM operation	
		weight	Ø	code					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			I out	W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI
		weight	Ø	code			
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			I out	W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI
		weight	Ø	code			
LED	white	0.60	220	156477-0050	800	30	4000K - 3740lm - CRI 80

-0050  
EM-EC



L80  
B20  
50.000h

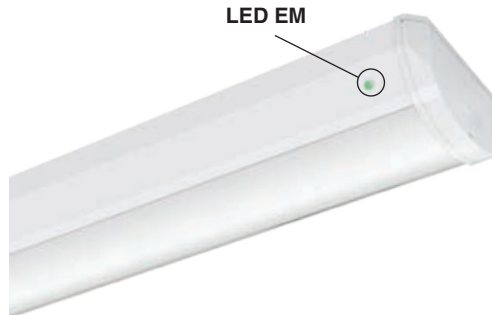
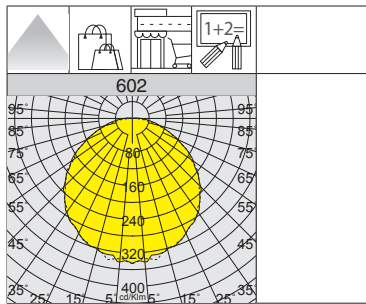
RG0

U.V.

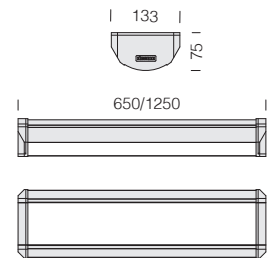
LOW  
FLICKER

LOW  
FLICKER

4000K



IP20IK06



### 602 Disanlens - EM 1h - S.A.

EM  
S.A.

LED	colour	L	weight	CLD E		LUMEN OUTPUT (tq= 25 °C)		% EM operation	
				code	W tot	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		LUMEN OUTPUT (tq= 25 °C)		% EM operation	
				code	W tot	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%	

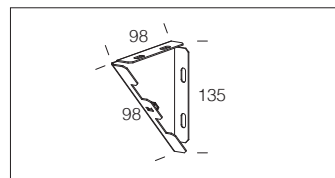
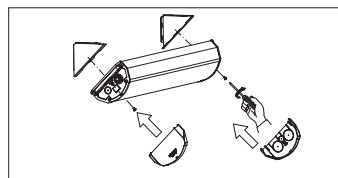
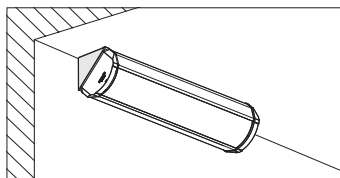
### 602 Disanlens - EM EC

-0050  
EM-EC

LED	colour	L	weight	CLD EC		LUMEN OUTPUT (tq= 25 °C)	
				code	W tot	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

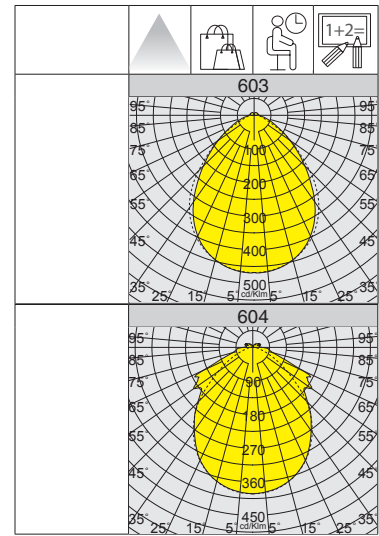
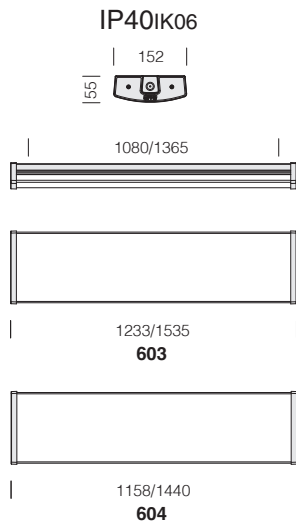
**Housing:** in extruded aluminium with closing ends.

**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  $\geq 0.9$ . 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-D (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	h	%
		1535 mm	2.90	115522-07	115522-0741	30	4000K - 4800lm - CRI 80	1h	15%

**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	h	%
		1535 mm	2.90	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	h	%
		1535 mm	2.90	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	% EM operation	
LED	white	1233 mm	2.80	115521-0050	23	4000K - 3450lm - CRI 80	h	%
		1535 mm	2.90	115522-0050	30	4000K - 4800lm - CRI 80	1h	10%

**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	2.80	115534-07	23	4000K - 3450lm - CRI 80	h	%
		1440 mm	2.90	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	2.80	115534-0766	23	4000K - 3450lm - CRI 80	h	%
		1440 mm	2.90	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	% EM operation	
LED	white	1158 mm	2.80	115534-0050	23	4000K - 3450lm - CRI 80	h	%
		1440 mm	2.90	115535-0050	30	4000K - 4800lm - CRI 80	1h	10%

## 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.

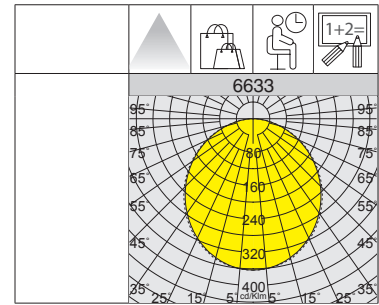
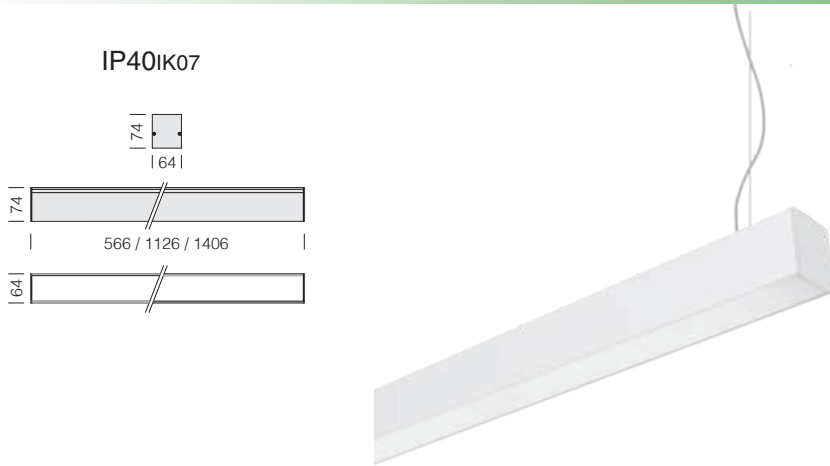
**Diffuser:** opal polycarbonate.

**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  $\geq 0.9$ . Luminous flux maintenance 80%: 50.000h (L80B20).  
Photobiological safety class: exempt group.





- L80 B20 50.000h
- RG0
- U.V.
- 4000K
- LOW FLICKER

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

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



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

**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).

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



**CONTINUOUS LINE INSTALLATION AND ACCESSORIES**

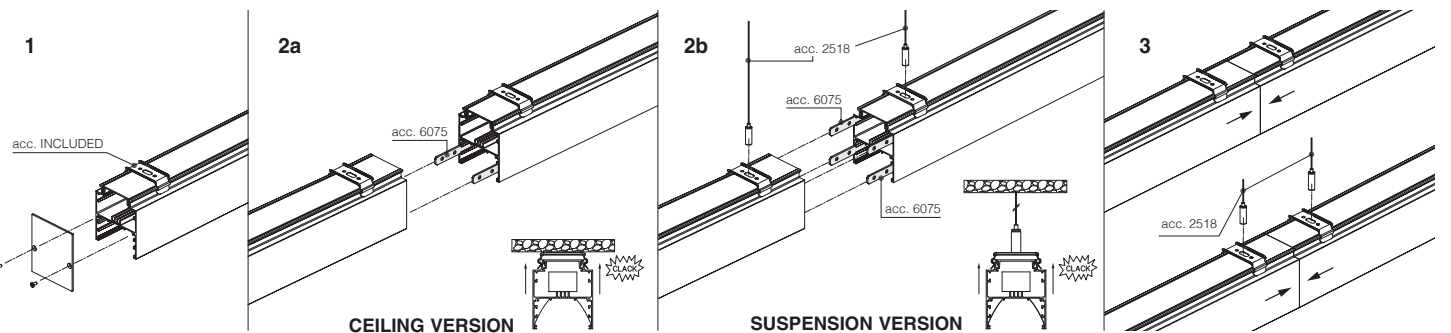
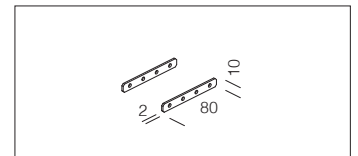
**Installation sequence:**

- 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

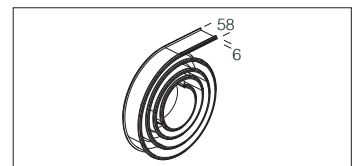
Utilize for the suspension/ceiling installation in continuous line of Madrid.



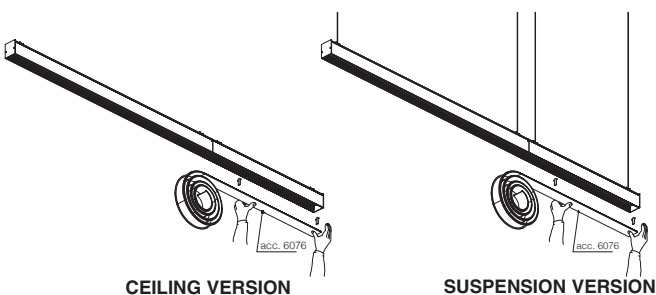
**acc. 6076 opal diffuser**

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.



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



L80  
B20  
50.000h

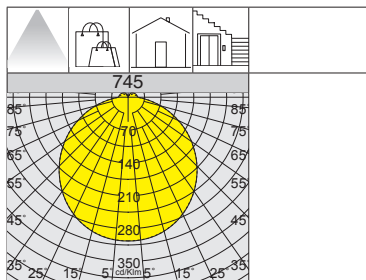
RG0



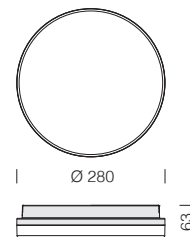
+35  
C°  
+5

3000K

4000K



IP65IK07



### 745 Oblò J 2.0 - EM 1h

EM  
S.A.

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

### 745 Oblò J 2.0 - EM 3h

EM  
S.A.

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

### 745 Oblò J 2.0 - EM EC

-0050  
EM-EC

LED	colour	weight	Ø mm	CLD EC		LUMEN OUTPUT (tq= 25 °C)	
				code	W tot	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.







### Tortuga - EM 3h S.A.

LED	colour	weight	Ø mm	CLD E		LUMEN OUTPUT (tq= 25 °C)		% EM operation	
				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%	

### Tortuga - EM EC

LED	colour	weight	Ø mm	CLD EC		LUMEN OUTPUT (tq= 25 °C)	
				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	

## 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



NW = 4000K (neutral white) CW = 5700K (cold white)

RG0

U.V.



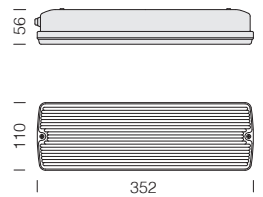
+35  
°C  
+5

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			LUMEN OUTPUT (tq= 25 °C)	
LED	colour	weight	code	W tot	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			LUMEN OUTPUT (tq= 25 °C)	
LED	colour	weight	code	W tot	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)			LUMEN OUTPUT (tq= 25 °C)	
LED	colour	weight	code	W tot	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**

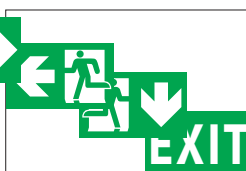
EM  
S.A.

		CLD CEM-L (AUTOTEST)			v	
LED	colour	weight	code	W tot	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.



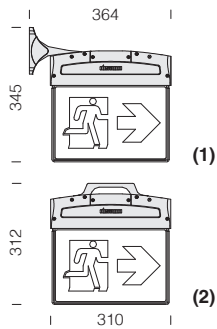
acc. 315 outer shell	
white	995212-00
Made in polycarbonate. For recessed installation of Safety 2.0.	



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 <b>1sec</b> approx.
Long monthly functional test	The luminaire switches to EM mode for 5 seconds, then goes back to normal operation.	Button pressed for <b>3sec</b> 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 <b>5sec</b> 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 <b>8sec</b> approx.

IP40IK07 □



(1)



(2)

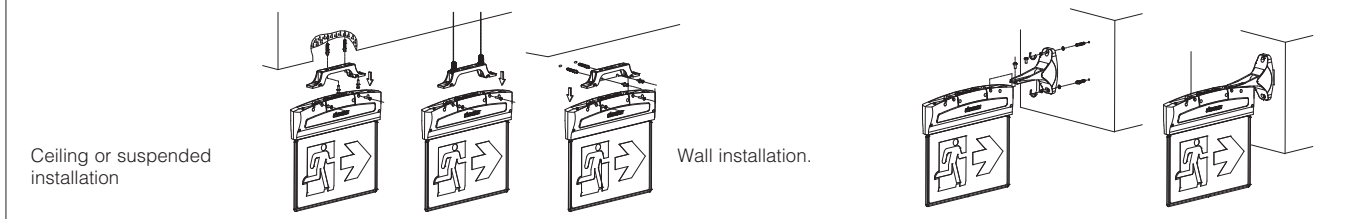


## 620 Safety - EM 1h/3h S.A.

		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.

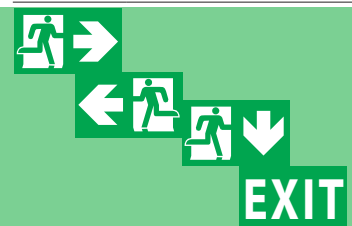
## Safety Flag

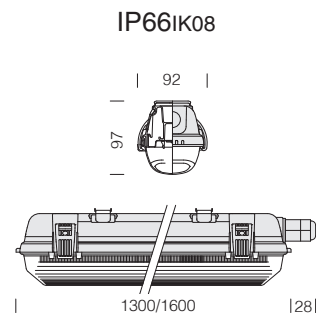
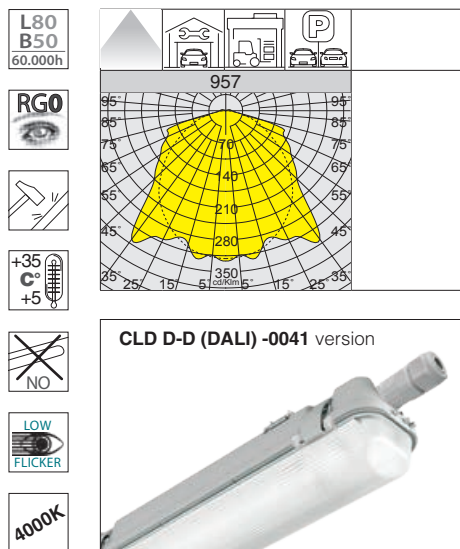
**Housing:** in plastic material.

**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.





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

		CLD E			LUMEN OUTPUT (tq= 25 °C)		% EM operation	
LED	colour	weight	L	code	W tot	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**

		CLD ED			LUMEN OUTPUT (tq= 25 °C)		% EM operation	
LED	colour	weight	L	code	W tot	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**

		CLD - Self-diagnosis			LUMEN OUTPUT (tq= 25 °C)		% EM operation	
LED	colour	weight	L	code	W tot	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**

		CLD EC			LUMEN OUTPUT (tq= 25 °C)		% EM operation	
LED	colour	weight	L	code	W tot	K - ølm - CRI	h	%
LED	grey	2.00	1300	164730-0050	39	4000K - 6231lm - CRI≥80	1h	9%
		3.00	1600	164736-0050	51	4000K - 7946lm - CRI≥80	1h	7%

**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.

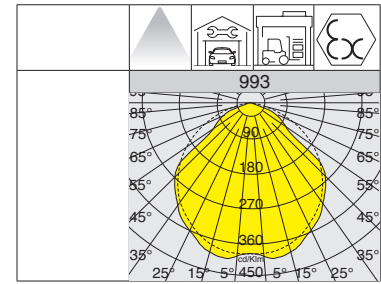
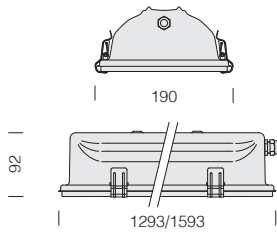
**Reflector:** in galvanised steel, previously stove-enamelled with UV-stabilised polyester resin.

**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

LOW  
FLICKER

4000K

-0050  
EM-EC

### 993 Forma ATEX - EM EC - with transparent glass

LED	colour	CLD EC			W tot	LUMEN OUTPUT (tq= 25 °C)	
		weight	L	v		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	

**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 ATEX	
<b>Protection against explosions</b>	II 3G Ex nA OP IS IIC T4 IP65 Gc II 3D Ex tc IIIC T135°C IP65 Dc
<b>Allowed dangerous area</b>	Zone 2; Zone 22
<b>Allowed room temperature</b>	-20°C ÷ +40°C
<b>Degree of protection</b>	IP65
<b>Installation</b>	ceiling - suspension
<b>Casing mechanical resistance</b>	IK08
<b>Reference regulations</b>	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  $\geq 0.95$ . Luminous flux maintenance 90%: 100.000h (L90B10). Photobiological safety class: exempt group.



IP66IK08

UGR<22

UGR<25

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

SURGE

L90  
B10  
100.000h

RG0  
Etrif

+40  
C°  
-40

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%.

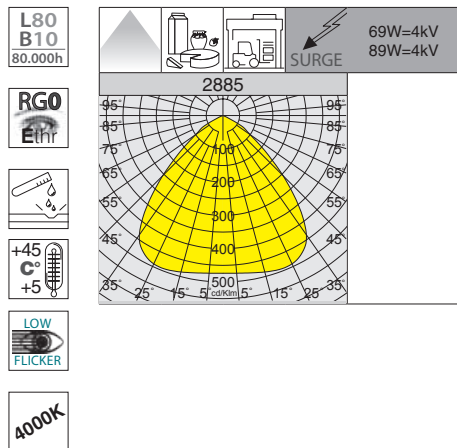
**2900 Astro Q1 - EM EC - UGR<22 - 70°**

LED	colour	weight	CLD EC		LUMEN OUTPUT (tq= 25 °C)	
			code	W tot	K - ølm - 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	

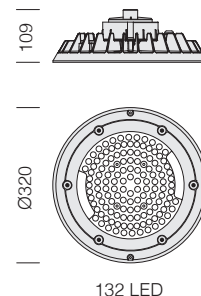
**2901 Astro Q1 - EM EC - UGR<25 - 90°**

LED	colour	weight	CLD EC		LUMEN OUTPUT (tq= 25 °C)	
			code	W tot	K - ølm - 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	





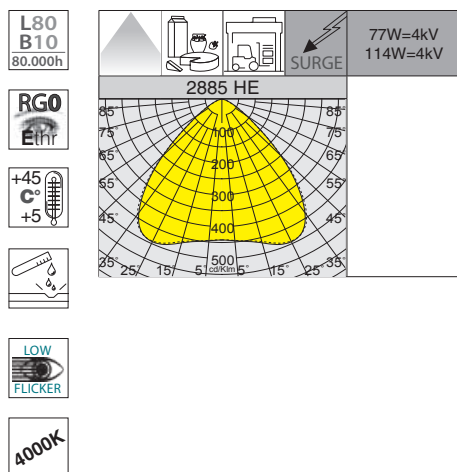
IP66IK08



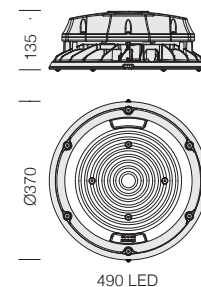
**2885 Saturno Ø320 HE - EM 1h - wide beam**

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**

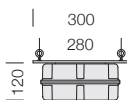
LED	colour	weight	Ø	CLD E		LUMEN OUTPUT (tq= 25 °C)		% EM operation	
				code	W tot	K - ølm - CRI	h	%	
LED	RAL 7021	5.00	370	330775-07	77	4000K - 16340lm - CRI 80	1h	6%	
				330777-07	114	4000K - 22024lm - CRI 80	1h	4%	

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

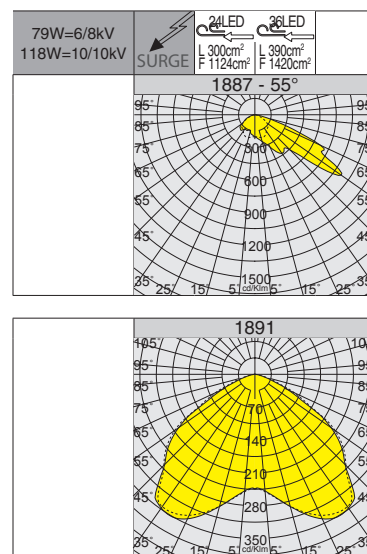
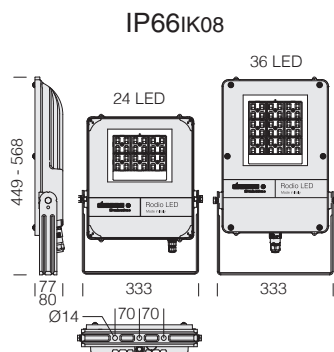
**Housing:** in die-cast aluminium with cooling fins.

**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  
Etr

LOW  
FLICKER

3000K

4000K

EM  
S.A.

**1887 Rodio - EM 1h - asymmetric**

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

**1891 Rodio - EM 1h - symmetric wide beam**

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

EM  
S.A.

## Rodio

**Housing:** in die-cast aluminium with cooling fins.

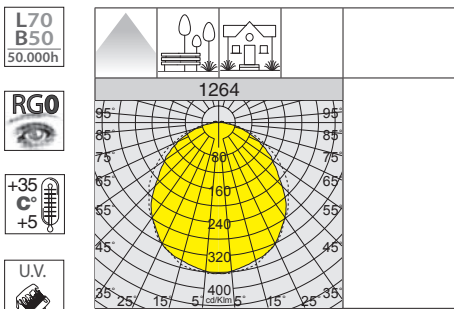
**Diffuser:** 5mm thick tempered glass, resistant to thermal shocks and impacts (UNI-EN 12150-1 : 2001).

**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.

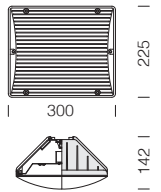
**Equipment:** complete with galvanised and coated bracket. Silicone rubber gasket; external screws and bolts in stainless steel; air recirculation valve. Airtight connector for quick installation with **no need to open the fixture**.

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

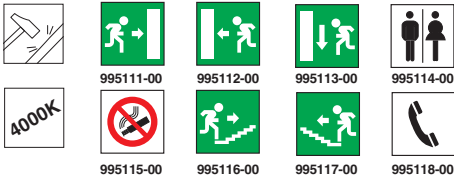




IP65IK08



Self adhesive pictograms available:



### 1264 Vega - EM 1h

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

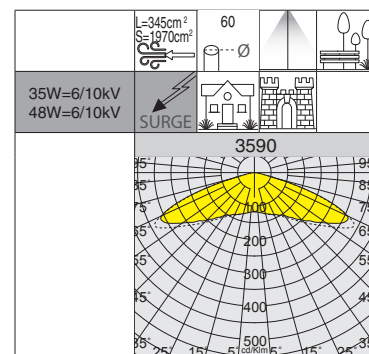
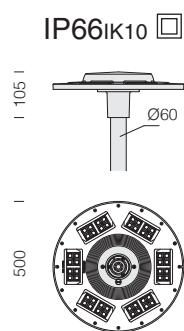
## Vega

**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**  
Etrhr
- +35°C**  
+5
- LOW FLICKER**
- 3000K**
- 4000K**
- EM S.A.**

**3590 Ischia - EM 1h - rotsymmetric wide beam RW**

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

## 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.



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