

fosnova

Liset 2.0 family

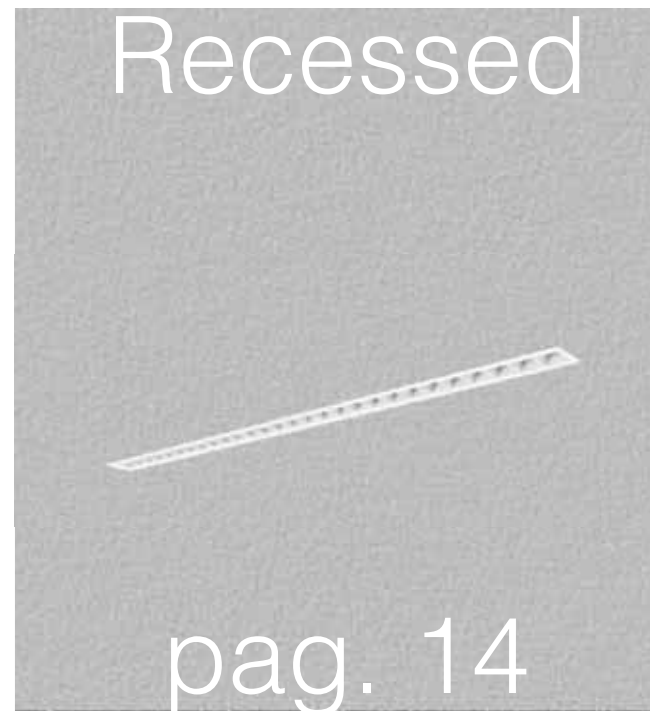
M A D E I N I T A L Y

Liset 2.0 family



The new frontier of human centric lighting

The new LED lighting fixtures have features that allow artificial lights to mimic the quality of natural light, and have the necessary amount of light to allow us to complete, as best as possible, different work and study activities, as well as create a pleasant environment where lights can follow the natural trend of daylight. Designers who follow the principles of Human Centric Lighting using the new LED fixtures will achieve:



Efficient light control

The possibility to adjust lights via more accurate and programmable control systems can dim lights during the day in order to reproduce the rhythm of outdoor light or automatically adjust them to the amount of daylight. Moreover, it is possible to choose the best amount of light for a certain type of activity, whether it is reading, working at the PC or a business meeting.



Greater amount of light

LED sources cut down energy costs while achieving a high luminous flux in accordance with sustainable consumption patterns.

Improved light quality

The new sources combine high colour rendering and correct light distribution, guaranteeing maximum visual comfort; while anti-glare optics and the low-flicker sources protect human eyesight.

Liset 2.0 is a linear and modular lighting system that is easily customisable and capable of offering a series of lighting solutions in any setting, including retailing, artistic and cultural spaces or in entrance lobbies and/or hospitality facilities. Compact, elegant, flexible and small, Liset 2.0 is simple to install as a recessed, ceiling, suspension or track lamp. It is available in versions with PMMA HE optics including dark light lamellar optics with URG<19, or with either white or black polycarbonate comfort optics and polycarbonate opal diffuser. The entire range has latest generation 3000K/4000K LED sources with 80 CRI, making these products easy to fit into any lighting design project.



High-efficiency PMMA optics with very low glare coefficient, resistant to high temperature and UV radiation. Diffuser in opal polycarbonate, anti-glare, shatterproof and self-extinguishing V2 polycarbonate, UV-stabilised.

Colours and finishes:

Housing: made of extruded aluminium.

Terminal ends: in die-cast aluminium.

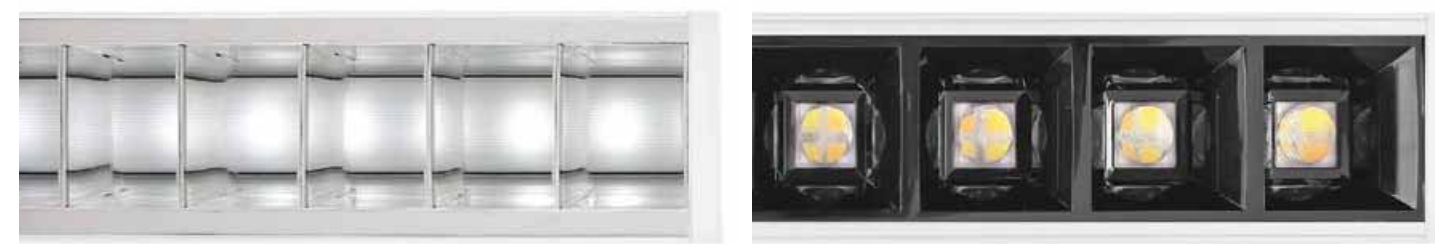
Standard: 3000K and 4000K. ON-OFF wiring and DALI digital dimmable. Low Flicker.

LED: luminous flux maintenance 80%: 50.000h (L80B20).

Power factor: $\geq 0,92$.

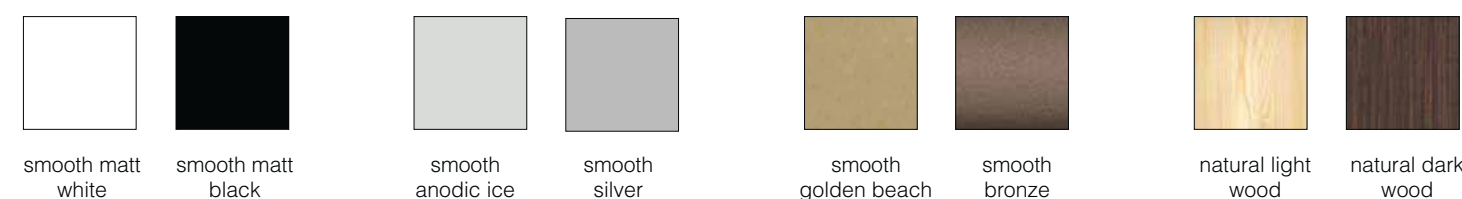
Photobiological safety class: exempt group.

Colours and finishes:



Dark light louvre: double parabolic louvres, in high-gloss 99.99 aluminium, anti-glare and anti-iridescence, very low luminance with PVD treatment.


Comfort optics: in black anti-glare polycarbonate for improved visual comfort (the white colour version is available upon request).

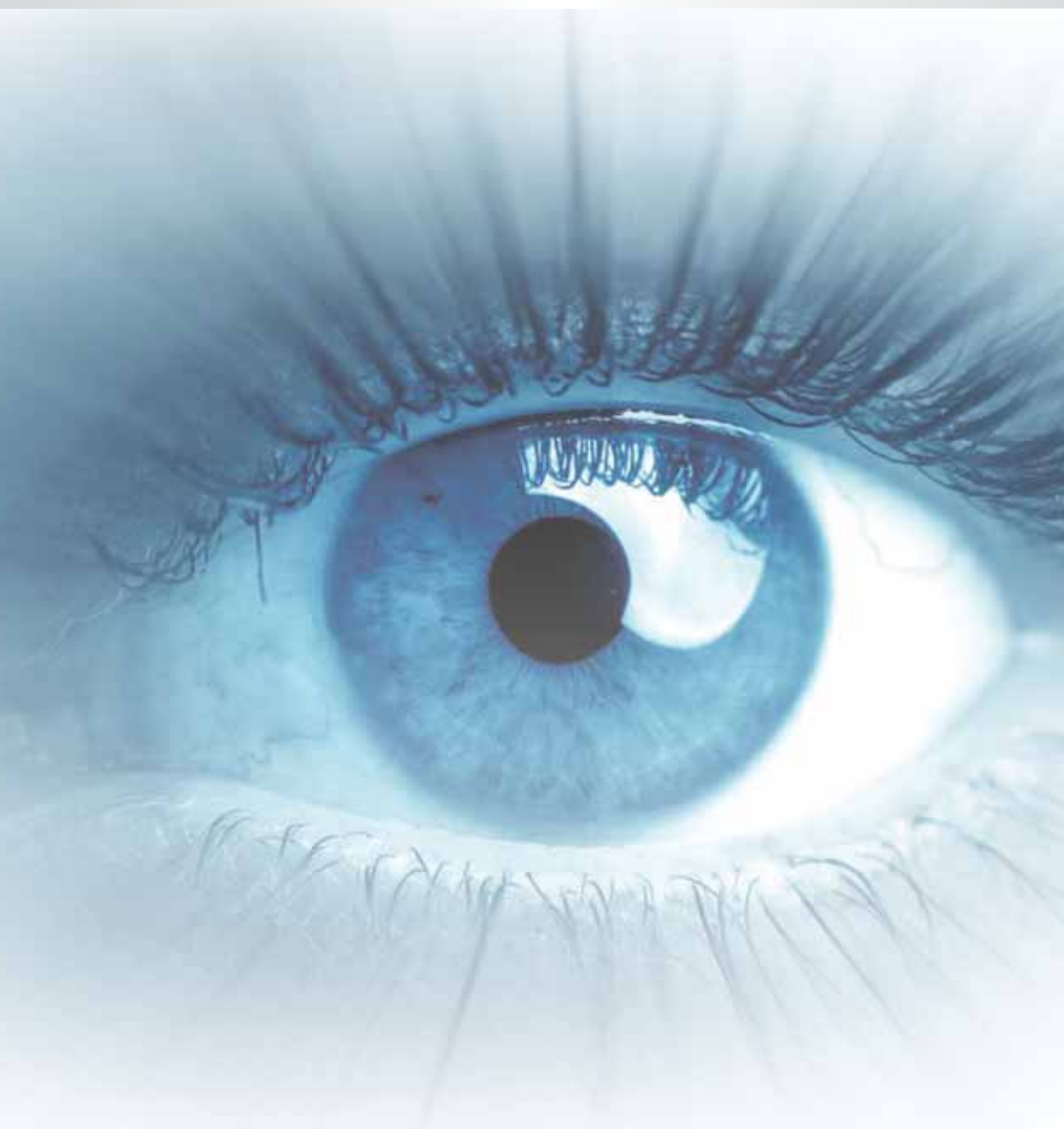


UGR
is the international unified glare rating developed by the CIE (International Commission on Illumination), to assess the direct glare deriving from a lighting system.

The UNI-EN 12464-1 standard regarding the lighting of indoor workplaces requires a specific UGR value for each application, ranging between 10 and 30. The lower the value, the lower the glare.

The exact value of this rate is to be calculated with a lighting design test, as it depends on the arrangement of the lighting fixtures, on the features of the room (dimensions, reflections) and on the angle of observation (to be verified through a lighting project).

	
No or minimal glare	<13
Very demanding applications (technical drawings)	<16
Offices and schools: reading, writing, meetings, computer work	<19
Industrial applications	<22
Transit areas (applications without special needs)	<25



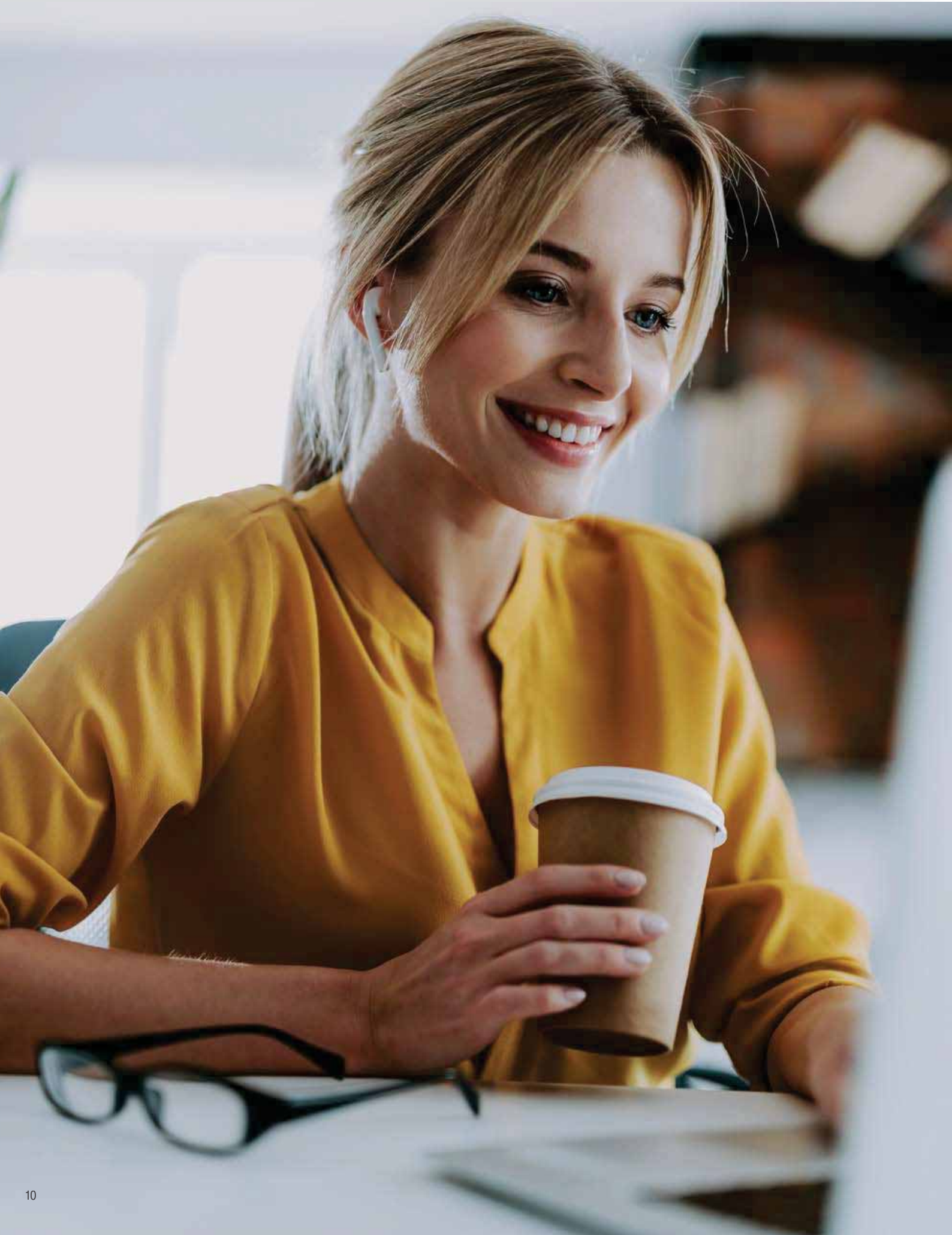
Low Flicker: do you want to avoid headaches or eye strain?

All Liset 2.0 luminaires have low flicker (< 5%) for safe and comfortable lighting. Prolonged exposure to high flicker frequencies (between 70 and 160 Hz) can cause discomfort, headaches, eye strain and impaired visual performance.

Colour Quality - CRI
indicates how the artificial source can reproduce the colour of an illuminated object. It is a scale from 0 to 100, where 0 represents the lowest accuracy and 100 is the maximum accuracy. Daylight is the best source of light from the physiological point of view thanks to the completeness of its colour spectrum. This is why the choice of fixtures with a high colour index is very important to enhance people's sense of wellbeing and comfort, and it is particularly needed in rooms where a faithful reproduction of colours is required.



from page 112-113



visual effects

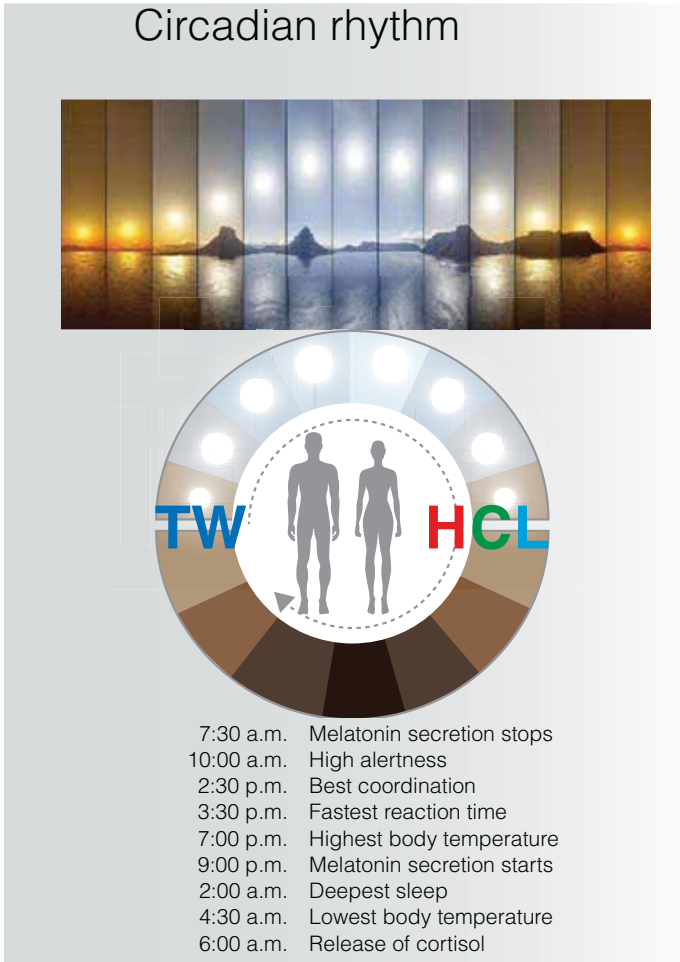
emotional effects

HCL

biological effects

HCL is a concept that represents a deep cultural change that aims to achieve a healthier and more balanced relationship with the spaces we live in. Our modern lifestyle is not aligned with nature’s rhythms. We spend most of our time indoors where artificial lighting has virtually abolished the difference between day and night.

Over the last decades, however, scientific research has made it clear that light isn’t just for seeing, but also for governing how our body works from both the biological and psychological points of view.



The biologic clock

We use the definition of “biological clock” because, over the course of the day, the variations of light, from dawn to dusk, up to the dark of the night, send precise signals to our body, triggering specific psychological responses. Blood pressure, body temperature and the production of specific hormones vary over the course of 24 hours.

When we wake up, the morning light triggers processes that stimulate attention span, which reaches its peak during the central hours of the day, to then decline with the arrival of the evening in order to prepare our body for night-time rest.

This mechanism, which varies according to seasons and individual characteristics, is necessary for our body to work properly.



Upon request: versions with *Casambi* advanced lighting control solution are available

Casambi is an advanced automation lighting control system that offers the simplest and most natural way to control your lamps. It is based on the Bluetooth Low Energy (BLE) wireless technology that allows you to control and automate individual or groups of lighting fixtures via a simple and intuitive app directly from your smartphone or mobile device. The *Casambi* technology can be integrated into luminaires, LED drivers and even within LED modules or bulbs, creating an optimal solution in terms of easy installation and functionality with minimal additional hardware and low costs.

App and features

With *Casambi*, lighting can be controlled via smartphones, tablets, smart watches, push buttons, switches or wireless controllers.

To access all the functionalities of the *Casambi* network an app is needed. The app can be downloaded for free from Apple App Store or Google Play Store by entering Casambi.

The *Casambi* app is continuously updated to maintain compatibility with operating systems. It can:

- Turn lights on/off
- Dim lights
- Dim groups of lights or turn them on/off
- Configure, save and recall light scenes
- Configure, save and recall light animations
- Fade time adjustments for light scenes and animations
- Control light scenes and animation via a timer
- Adjust light colours
- Adjust colour temperatures
- Use motion sensors
- Bluetooth signal strength for geo-localization
- Take pictures of your spaces or upload your lighting layout drawings
- Add lighting control directly to your pictures
- Take sunrise and sunset into account while defining timers
- Get status information from the system
- Receive latest firmware updates over-the-air
- Receive latest system functionality updates over-the-air
- Request support via the app



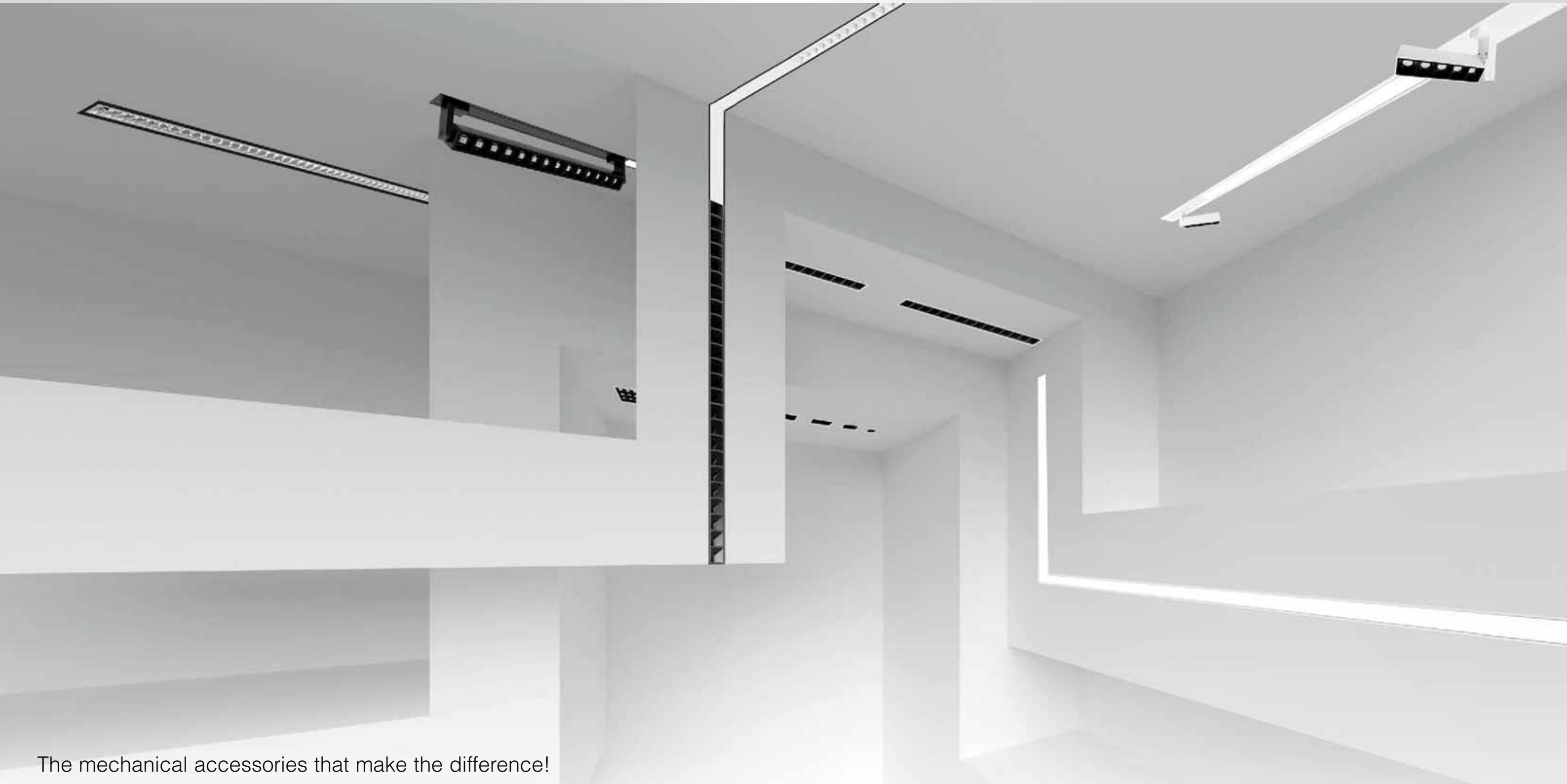


Ananything is possible!

Creating lighting scenarios with Liset 2.0 has never been so exciting!

Thanks to the seamless material manufacturing, you can design ALL LIGHT linear patterns, with hidden 45° intersections for maximum freedom and creativity.





The mechanical accessories that make the difference!



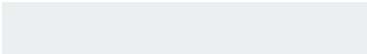
Recessed module for angular mounting S
158x158 mm



black 22302632-03
white 22302612-03



Linear module for recessed mounting S
560 mm



black 22385632-03
white 22385612-03



Liset 2.0 HE - UGR19 optics version



Liset 2.0 HE - 90° WIDE-BEAM optics version (60° Upon request)



Liset 2.0 HE - 30°X80° ELLIPTIC optics version



Liset 2.0 HE - 25° ASYMMETRIC optics version



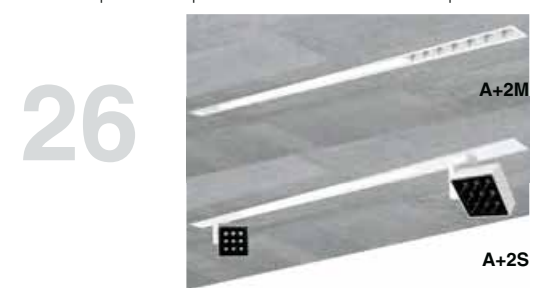
Liset 2.0 HE - 25° BI-ASYMMETRIC optics version



Liset 2.0 - OPAL DIFFUSER version



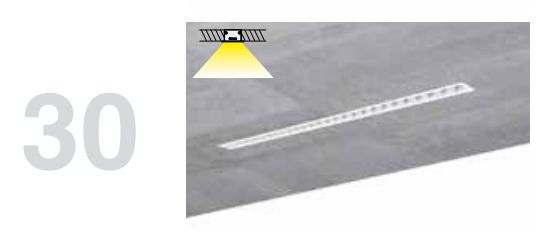
Liset 2.0 - special compositions with RECESSED lamp



Liset 2.0 - DARK LIGHT optics version - UGR<19



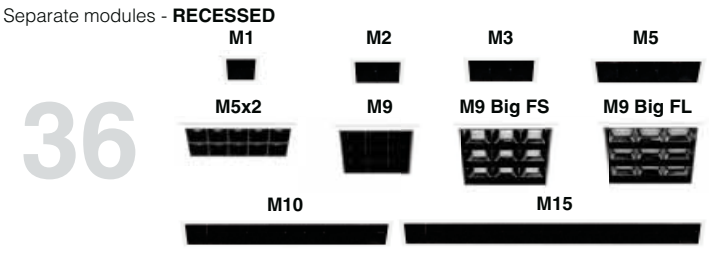
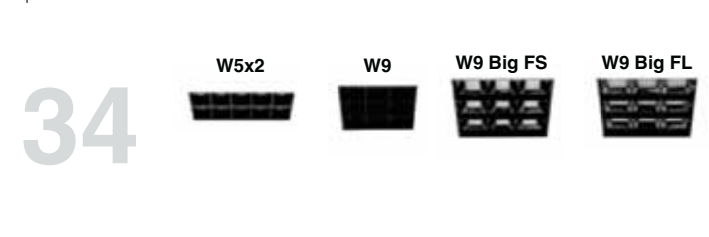
Liset 2.0 - COMFORT optics version



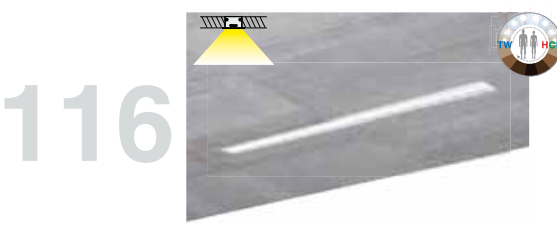
Liset 2.0 - special compositions with COMFORT optics



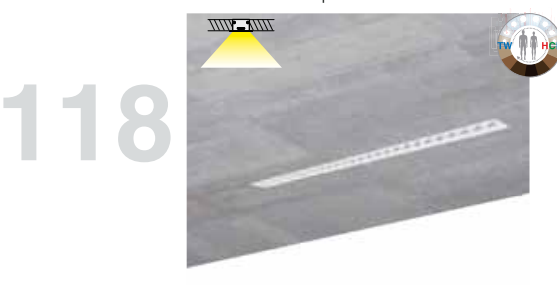
Separate modules - RECESSED DOWNLIGHTS FOR PLASTERBOARD

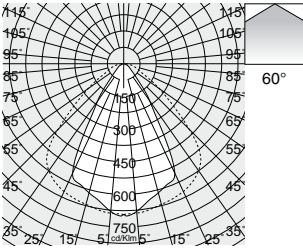
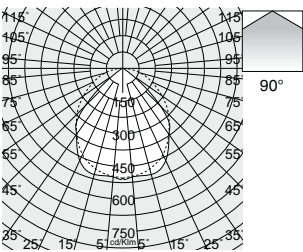
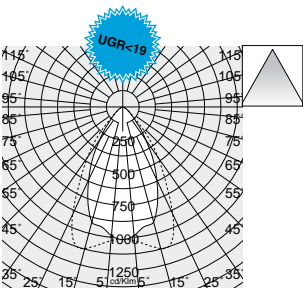
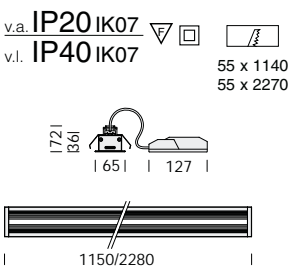


Liset 2.0 TW and HCL - OPAL DIFFUSER version



Liset 2.0 TW and HCL - COMFORT optics version





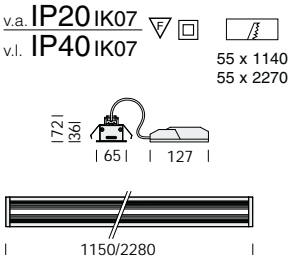
Upon request:
60° beam angle

Upon request: version with black housing

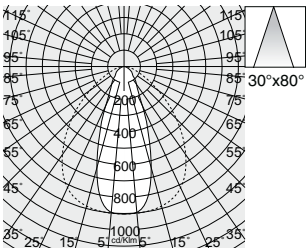


Liset 2.0 HE - recessed - UGR<19						
		CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 2 modules	white	1150	1,60	22303401-00	26	4000K - 3673lm - CRI 80
				22303401-39		3000K - 3416lm - CRI 80
LED 4 modules	white	2280	3,20	22303402-00	52	4000K - 7346lm - CRI 80
				22303402-39		3000K - 6832lm - CRI 80
		CLD D-DIG (DALI)				
LED 2 modules	white	1150	1,60	22303401-1241	26	4000K - 3673lm - CRI 80
				22303401-3941		3000K - 3416lm - CRI 80
LED 4 modules	white	2280	3,20	22303402-1241	52	4000K - 7346lm - CRI 80
				22303402-3941		3000K - 6832lm - CRI 80
Upon request:						
• version with black housing						
• PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)						
• 1h EM version with subcode -09 (4000K) or -0928 (3000K)						
• 3h EM version with subcode -31 (4000K) or -3957 (3000K)						

Liset 2.0 HE - recessed - 90°						
		CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1150	1,60	22303001-00	29	4000K - 3336lm - CRI 80
				22303001-39		3000K - 3103lm - CRI 80
LED 8 modules	white	2280	3,20	22303002-00	56	4000K - 6673lm - CRI 80
				22303002-39		3000K - 6206lm - CRI 80
		CLD D-DIG (DALI)				
LED 4 modules	white	1150	1,60	22303001-1241	29	4000K - 3336lm - CRI 80
				22303001-3941		3000K - 3103lm - CRI 80
LED 8 modules	white	2280	3,20	22303002-1241	56	4000K - 6673lm - CRI 80
				22303002-3941		3000K - 6206lm - CRI 80
Upon request:						
• version with black housing						
• PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)						
• 1h EM version with subcode -09 (4000K) or -0928 (3000K)						
• 3h EM version with subcode -31 (4000K) or -3957 (3000K)						

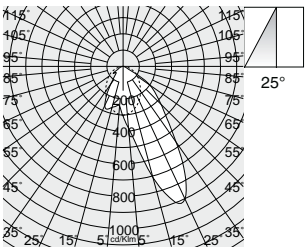


Upon request: version with black housing



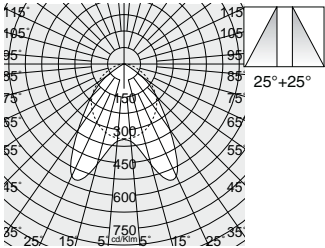
Liset 2.0 HE - recessed - 30° x 80°						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1150	1,60	22303101-00	29	4000K - 3319lm - CRI 80
				22303101-39		3000K - 3087lm - CRI 80
LED 8 modules	white	2280	3,20	22303102-00	56	4000K - 6638lm - CRI 80
				22303102-39		3000K - 6174lm - CRI 80
		CLD D-DIG (DALI)				
LED 4 modules	white	1150	1,60	22303101-1241	29	4000K - 3319lm - CRI 80
				22303101-3941		3000K - 3087lm - CRI 80
LED 8 modules	white	2280	3,20	22303102-1241	56	4000K - 6638lm - CRI 80
				22303102-3941		3000K - 6174lm - CRI 80

- Upon request:
- version with black housing
 - PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)
 - 1h EM version with subcode -09 (4000K) or -0928 (3000K)
 - 3h EM version with subcode -31 (4000K) or -3957 (3000K)



Liset 2.0 HE - recessed - 25° asymmetric optics						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1150	1,60	22303201-00	29	4000K - 3091lm - CRI 80
				22303201-39		3000K - 2875lm - CRI 80
LED 8 modules	white	2280	3,20	22303202-00	56	4000K - 6182lm - CRI 80
				22303202-39		3000K - 5794lm - CRI 80
		CLD D-DIG (DALI)				
LED 4 modules	white	1150	1,60	22303201-1241	29	4000K - 3091lm - CRI 80
				22303201-3941		3000K - 2875lm - CRI 80
LED 8 modules	white	2280	3,20	22303202-1241	56	4000K - 6182lm - CRI 80
				22303202-3941		3000K - 5794lm - CRI 80

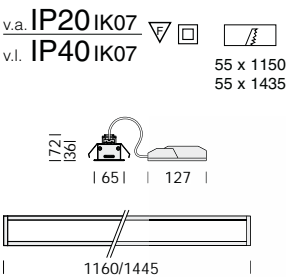
- Upon request:
- version with black housing
 - PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)
 - 1h EM version with subcode -09 (4000K) or -0928 (3000K)
 - 3h EM version with subcode -31 (4000K) or -3957 (3000K)



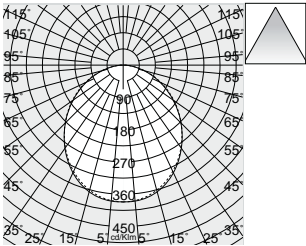
Liset 2.0 HE - recessed - 25° bi-asymmetric optics						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1150	1,60	22303301-00	29	4000K - 3429lm - CRI 80
				22303301-39		3000K - 3189lm - CRI 80
LED 8 modules	white	2280	3,20	22303302-00	56	4000K - 6858lm - CRI 80
				22303302-39		3000K - 6378lm - CRI 80
		CLD D-DIG (DALI)				
LED 4 modules	white	1150	1,60	22303301-1241	29	4000K - 3429lm - CRI 80
				22303301-3941		3000K - 3189lm - CRI 80
LED 8 modules	white	2280	3,20	22303302-1241	56	4000K - 6858lm - CRI 80
				22303302-3941		3000K - 6378lm - CRI 80

- Upon request:
- version with black housing
 - PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)
 - 1h EM version with subcode -09 (4000K) or -0928 (3000K)
 - 3h EM version with subcode -31 (4000K) or -3957 (3000K)

Accessories: see p. 16-17



Upon request: version with black housing



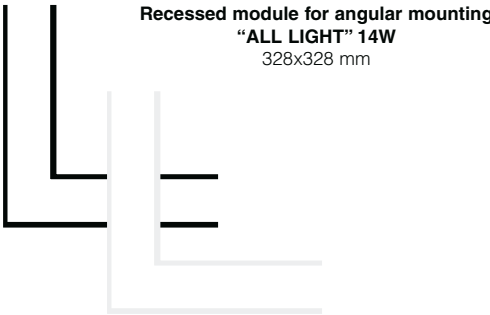
Liset 2.0 - recessed

LED	housing	CLD (ON-OFF)		W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI
		L (mm)	weight		
LED 4 modules	white	1160	1,50	28	4000K - 2530lm - CRI 80
					3000K - 2353lm - CRI 80
LED 5 modules	white	1445	1,90	35	4000K - 3163lm - CRI 80
					3000K - 2942lm - CRI 80
LED	housing	L (mm)	weight	W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI
LED 4 modules	white	1160	1,50	28	4000K - 2530lm - CRI 80
					3000K - 2353lm - CRI 80
LED 5 modules	white	1445	1,90	35	4000K - 3163lm - CRI 80
					3000K - 2942lm - CRI 80

- Upon request:
- **CRI 90** - 3000K and 4000K
 - version with black housing
 - PUSH-DIMM version with sub-code **-1245** (4000K) or **-3945** (3000K)
 - 1h EM version with subcode **-09** (4000K) or **-0928** (3000K)
 - 3h EM version with subcode **-31** (4000K) or **-3957** (3000K)

Accessories: see p. 16-17

“ALL LIGHT” accessories that make the difference!

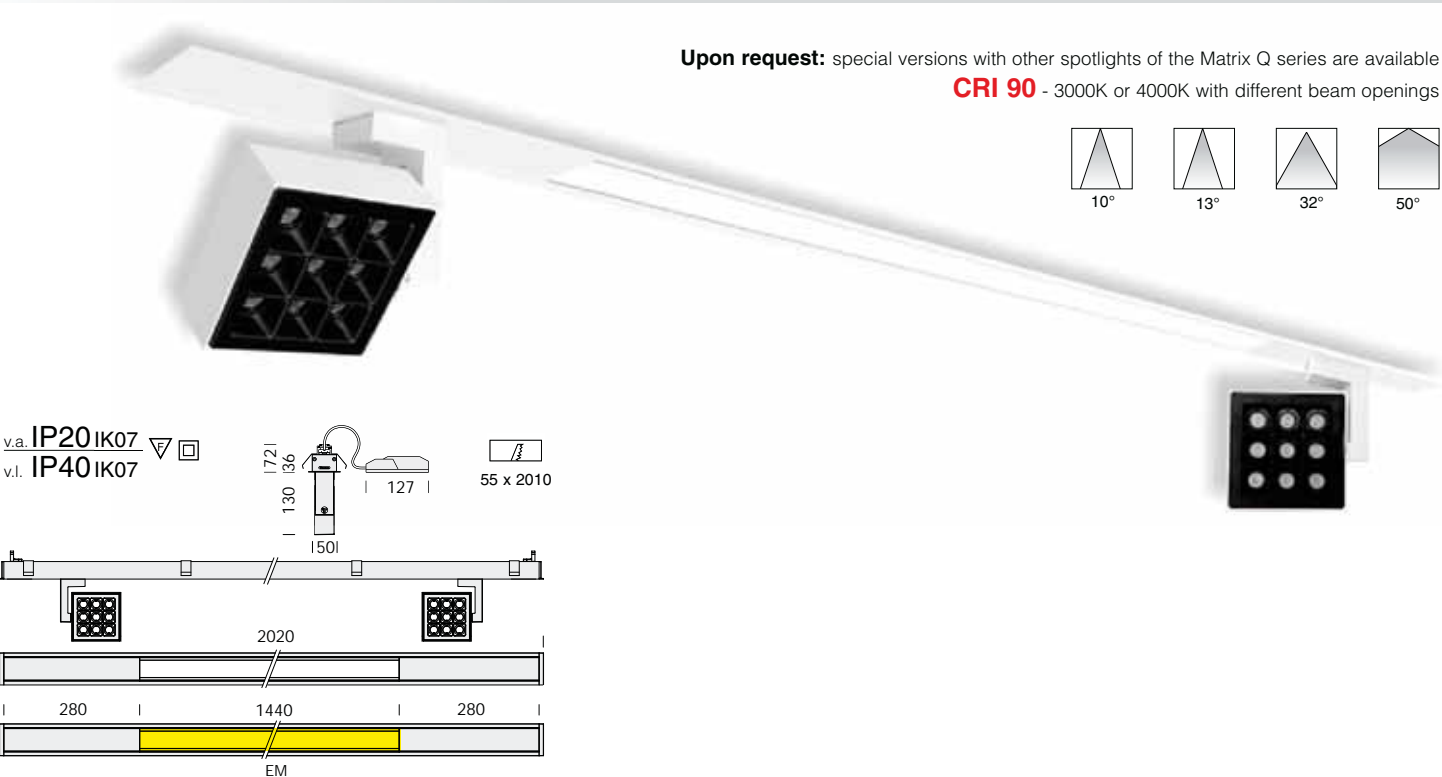


- black 22302632-00
white 22302612-00
- Upon request: DIMM DALI version with sub-code **-1241**.
3000K version with sub-code **-39**.

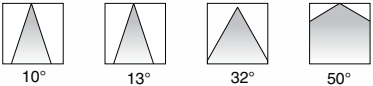
- black 22302633-00
white 22302613-00



Liset 2.0 - recessed - compositions



Upon request: special versions with other spotlights of the Matrix Q series are available
CRI 90 - 3000K or 4000K with different beam openings



Standard composition: Liset 2.0 with diffuser + 2 modules with 38° spotlight (upon request with 32° or 50° beam angles). Standard version includes double switching.

- Upon request:**
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - 1h EM version with subcode **-09**
 - 3h EM version with subcode **-31**

Liset 2.0 - A+2S - recessed - **CRI 90**

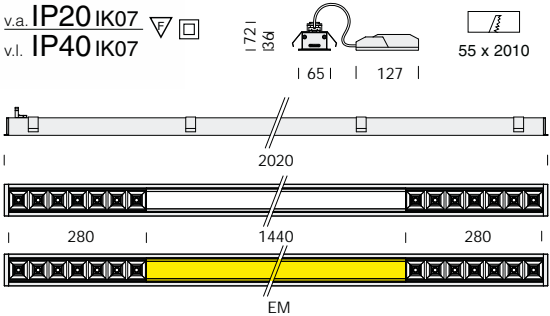
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI - degrees
LED	white	2020	3,80	22302302-00	101	4000K - 3163lm - CRI 80 4000K - 2x2415lm - CRI 90 - 38°
		CLD D-DIG (DALI)				
LED	white	2020	3,80	22302302-1241	101	4000K - 3163lm - CRI 80 4000K - 2x2415lm - CRI 90 - 38°



Upon request: special versions with other spotlights of the Matrix Q series are available
CRI 90 - 3000K or 4000K

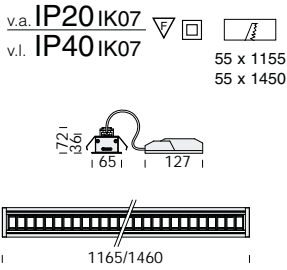
Liset 2.0 - A+2M - recessed

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	peso	code	W tot	K - ølm - CRI - degrees
LED	white	2020	3,00	22302301-00	53	4000K - 3163lm - CRI 80
						4000K - 2x1295lm - CRI 80 - 65°
		CLD D-DIG (DALI)				
LED	white	2020	3,00	22302301-1241	53	4000K - 3163lm - CRI 80
						4000K - 2x1295lm - CRI 80 - 65°

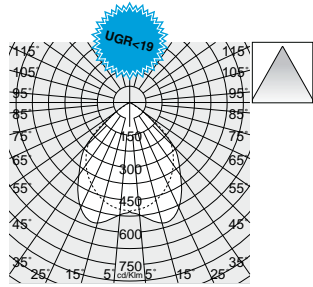


Standard composition: Liset 2.0 with diffuser + 2 modules with 65° white comfort optics (upon request with 76° beam angle). Standard version includes double switching.

- Upon request:**
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - PUSH-DIMM version with sub-code **-1245**
 - 1h EM version with subcode **-09**
 - 3h EM version with subcode **-31**



Upon request: version with black housing



Liset 2.0 - encastré - recessed Dark Dark - UGR<19

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1165	1,60	22302001-00	28	4000K - 2599lm - CRI 80
LED 5 modules		1460	2,00	22302002-00	35	4000K - 3249lm - CRI 80
		CLD D-DIG (DALI)				
LED 4 modules	white	1165	1,60	22302001-1241	28	4000K - 2599lm - CRI 80
LED 5 modules		1460	2,00	22302002-1241	35	4000K - 3249lm - CRI 80

- Upon request:
- CRI 90 - 4000K
 - version with black housing
 - PUSH-DIMM version with sub-code -1245
 - 1h EM version with subcode -09
 - 3h EM version with subcode -31

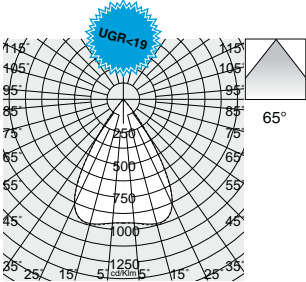
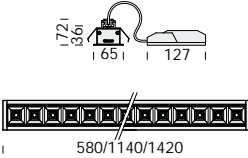
Accessories: see p. 16-17





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

55 x 570
55 x 1130
55 x 1410



Upon request: version with black housing

Liset 2.0 - recessed - comfort optics - UGR<19					
LED	housing	CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight	code	W tot K - ølm - CRI - degrees
LED 14 lenses	white	580	1,10	22302101-00	18 4000K - 2591lm - CRI 80 - 65°
LED 28 lenses		1140	2,20	22302102-00	22 4000K - 3463lm - CRI 80 - 65°
LED 35 lenses		1420	2,80	22302103-00	30 4000K - 4828lm - CRI 80 - 65°
		CLD D-DIG (DALI)			
LED 14 lenses	white	580	1,10	22302101-1241	18 4000K - 2591lm - CRI 80 - 65°
LED 28 lenses		1140	2,20	22302102-1241	22 4000K - 3463lm - CRI 80 - 65°
LED 35 lenses		1420	2,80	22302103-1241	30 4000K - 4828lm - CRI 80 - 65°

- Upon request:
- CRI 90 - 4000K
 - black colour housing version
 - version with black comfort optics
 - 3000K version with sub-code -39
 - PUSH-DIMM version with sub-code -1245
 - 1h EM version with subcode -09 (4000K) or -0928 (3000K)
 - 3h EM version with subcode -31 (4000K) or -3957 (3000K)
 - 76° beam version

Recessed module for angular mounting
"ALL LIGHT" 14W
328x328 mm

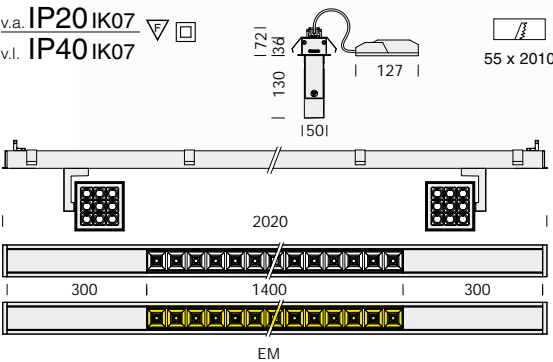
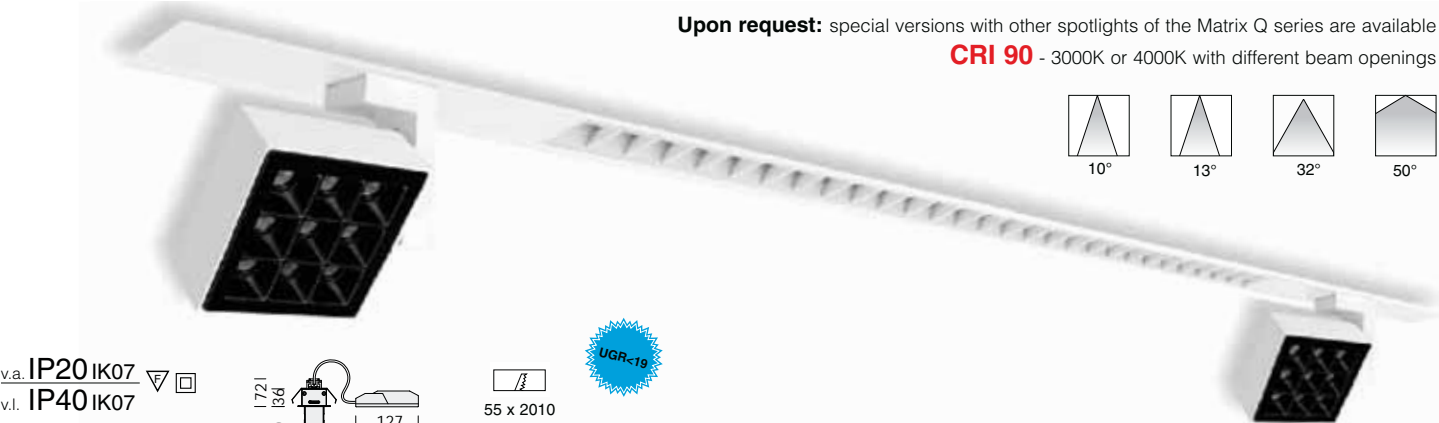
black 22302632-00
white 22302612-00

Upon request: DIMM DALI version with sub-code -1241.
3000K version with sub-code -39.

"WALL-TO-CEILING" recessed module
for angular mounting
"ALL LIGHT" 14W
320x320 mm

black 22302633-00
white 22302613-00

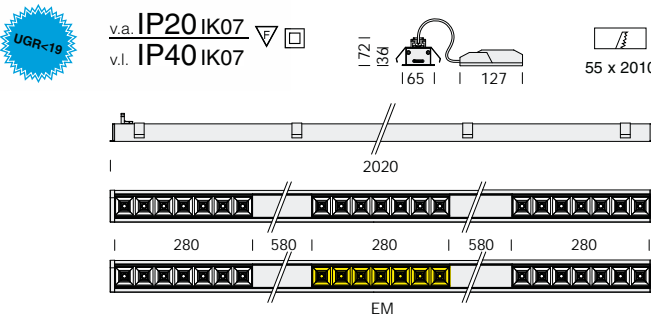
Accessories: see p. 16-17



Standard composition: Liset 2.0 with 65° white comfort optics + 2 modules with 38° spotlight (upon request with 76° comfort optics + 32° or 50° spotlights).
Standard version includes double switching.

- Upon request:**
- **CRI 90** - 3000K and 4000K
 - 3000K version with sub-code **-39**
 - PUSH-DIMM version with sub-code **-1245**
 - 1h EM version with subcode **-09**
 - 3h EM version with subcode **-31**

Liset 2.0 - A+M+2S - recessed - UGR<19 - CRI 90						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI - degrees
LED	white	2020	4,80	22302304-00	96	4000K - 4828lm - CRI 80 - 65°
						4000K - 2x2415lm - CRI 90 - 38°
		CLD D-DIG (DALI)				
LED	white	2020	4,80	22302304-1241	96	4000K - 4828lm - CRI 80 - 65°
						4000K - 2x2415lm - CRI 90 - 38°

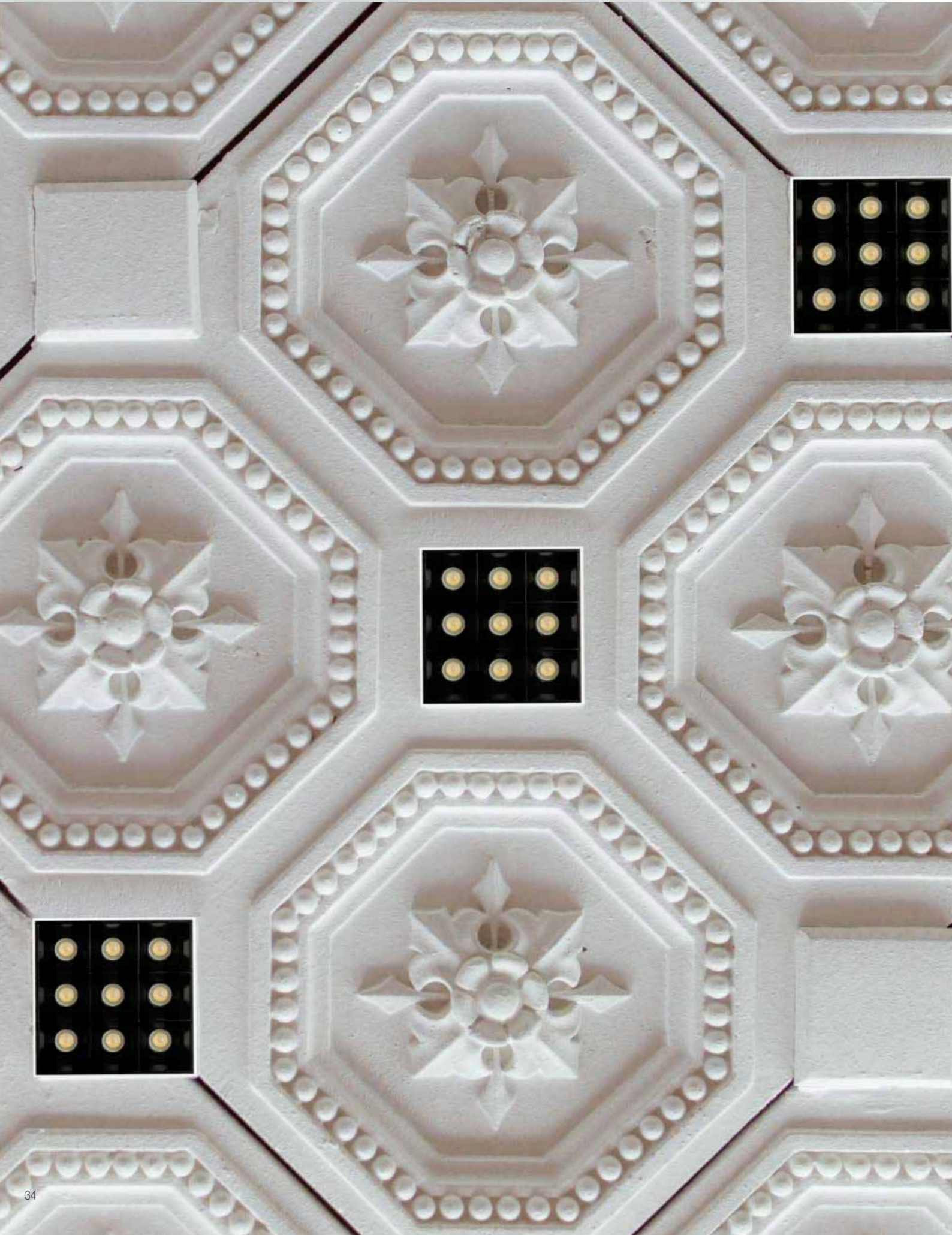


Liset 2.0 - A+H+3M - recessed - UGR<19						
		CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI - degrees
LED	white	2020	3,00	22302303-00	27	4000K - 3x1295lm - CRI 80 - 65°
CLD D-DIG (DALI)						
LED	white	2020	3,00	22302303-1241	27	4000K - 3x1295lm - CRI 80 - 65°

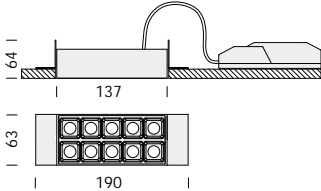
Standard composition: 3 modules with 65° white comfort optics (upon request with 76° beam angle).

- Upon request:**
- 3000K version with sub-code **-39**
 - PUSH-DIMM version with sub-code **-1245**
 - 1h EM version with subcode **-09**
 - 3h EM version with subcode **-31**
 - With RADAR SENSOR: sub-code **-19**





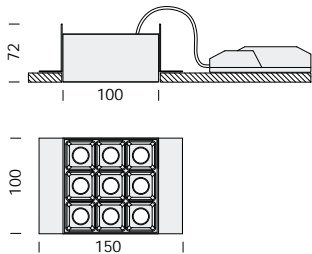
IP20IK07 138 x 64



W5x2 - recessed - CRI>90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
10 modules	black	22190235-00	20	4000K - 1325lm - CRI>90 - 20°
		22190235-39		3000K - 1285lm - CRI>90 - 20°

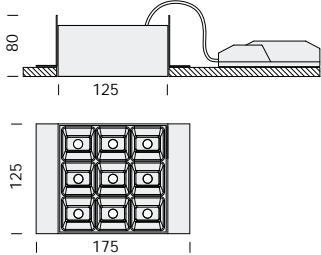
IP20IK07 101 x 101



W9 - recessed - CRI>90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
9 modules	black	22190139-00	18	4000K - 910lm - CRI>90 - 15°
		22190139-39		3000K - 885lm - CRI>90 - 15°

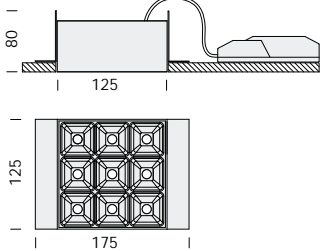
IP20IK07 126 x 126



W9 Big FS - recessed - CRI>90

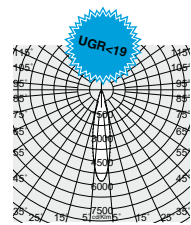
LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
9 modules	black	22190138-22	36	4000K - 2640lm - CRI>90 - 15°
		22190138-3931		3000K - 2565lm - CRI>90 - 15°

IP20IK07 126 x 126



W9 Big FL - recessed - CRI>90

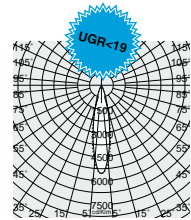
LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
9 modules	black	22190138-29	36	4000K - 2640lm - CRI>90 - 40°
		22190138-3932		3000K - 2565lm - CRI>90 - 40°



M1 - recessed - UGR<19 - CRI 90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
1 modules	white	22190101-00	4	4000K - 209lm - CRI 90 - 20°
		22190101-39		3000K - 194lm - CRI 90 - 20°

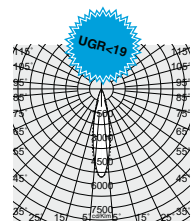
Upon request:
• 15°-30° version



M2 - recessed - UGR<19 - CRI 90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
2 modules	white	22190102-00	6	4000K - 380lm - CRI 90 - 20°
		22190102-39		3000K - 353lm - CRI 90 - 20°

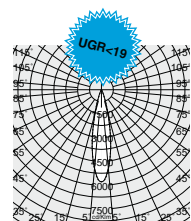
Upon request:
• 15°-30° version



M3 - recessed - UGR<19 - CRI 90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
3 modules	white	22190103-00	8	4000K - 570lm - CRI 90 - 20°
		22190103-39		3000K - 530lm - CRI 90 - 20°

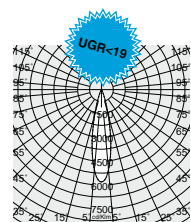
Upon request:
• 15°-30° version



M5 - recessed - UGR<19 - CRI 90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
5 modules	white	22190105-00	12	4000K - 1034lm - CRI 90 - 20°
		22190105-39		3000K - 962lm - CRI 90 - 20°

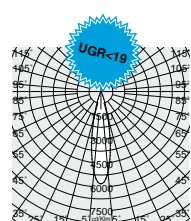
Upon request:
• 15°-30° version



M10 - recessed - UGR<19 - CRI 90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
10 modules	white	22190110-00	24	4000K - 2038lm - CRI 90 - 20°
		22190110-39		3000K - 1895lm - CRI 90 - 20°

Upon request:
• 15°-30° version

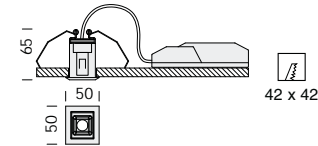


M15 - recessed - UGR<19 - CRI 90

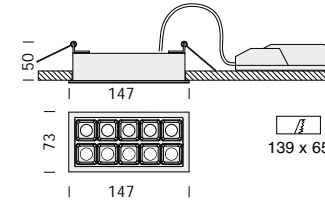
LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
15 modules	white	22190115-00	36	4000K - 3058lm - CRI 90 - 20°
		22190115-39		3000K - 2844lm - CRI 90 - 20°

Upon request:
• 15°-30° version

IP40 IK07



IP20 IK07



M5x2 - recessed - CRI>90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
10 modules	white	22190205-00	20	4000K - 1325lm - CRI>90 - 20°
		22190205-39		3000K - 1285lm - CRI>90 - 20°



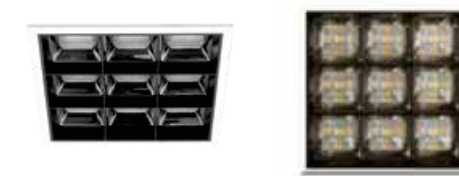
M9 - recessed - CRI>90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
9 modules	white	22190109-00	18	4000K - 910lm - CRI>90 - 15°
		22190109-39		3000K - 885lm - CRI>90 - 15°



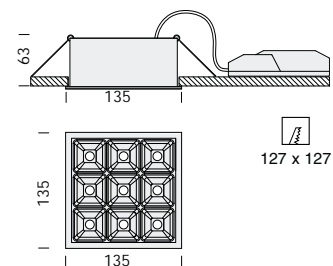
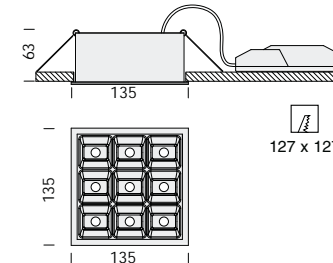
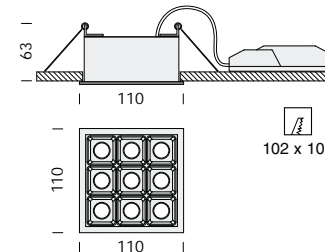
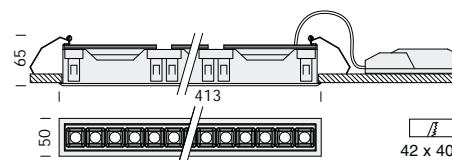
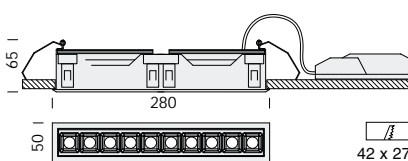
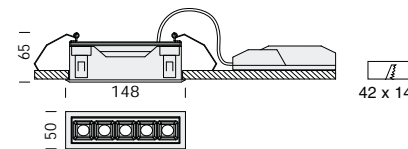
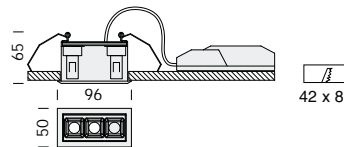
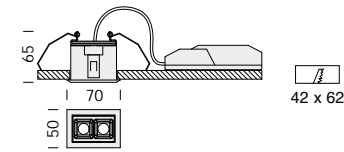
M9 Big FS - recessed - CRI>90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
9 modules	white	22190109-22	36	4000K - 2640lm - CRI>90 - 15°
		22190109-3931		3000K - 2565lm - CRI>90 - 15°



M9 Big FL - recessed - CRI>90

LED	colour	CLD CELL	W tot	LUMEN OUTPUT (tq= 25 °C)
		code		K - ølm - CRI - degrees
9 modules	white	22190109-29	36	4000K - 2640lm - CRI>90 - 40°
		22190109-3932		3000K - 2565lm - CRI>90 - 40°





As simple as that!

Liset 2.0 is available also in the ceiling mount version.

All it takes is just a few wall anchors and the fixture is up and ready.

And that's not all! Thanks to the many different accessories available, you can create artistic designs like squares, rectangles, ecc.



The mechanical accessories that make the difference!



Recessed module for angular mounting S
158x158 mm

black 22302630-03
white 22302610-03



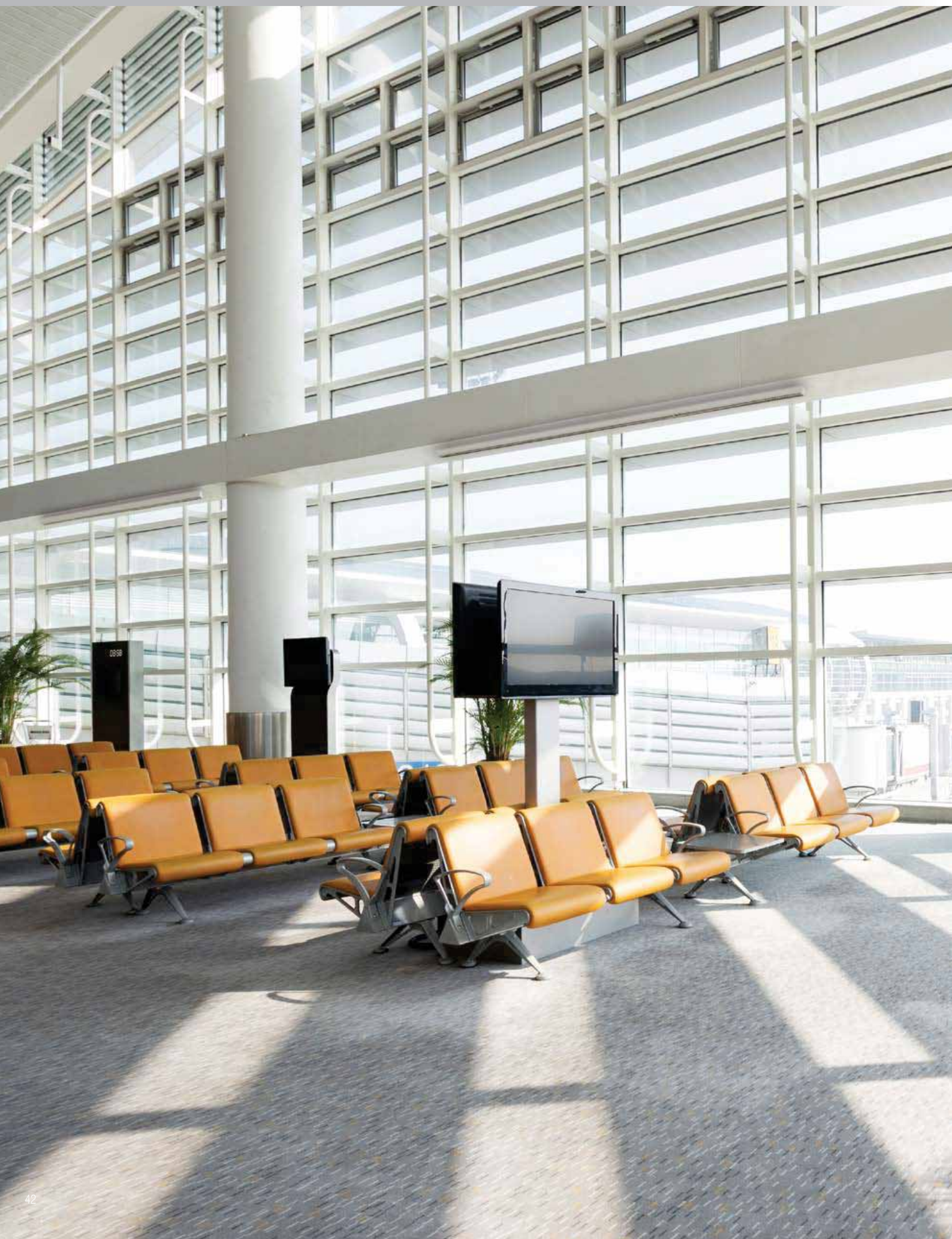
Linear module for ceiling mounting S
560 mm

black 22385632-03
white 22385612-03



Connecting bracket
It permits mechanical connection of the profiles in a continuous line.

galvanized 22025877-00



Liset 2.0 - ceiling/wall

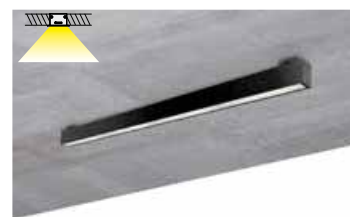
Liset 2.0 **HE** - **UGR19** optics version

44



Liset 2.0 **HE** - **90° WIDE-BEAM** optics version (60° Upon request)

44



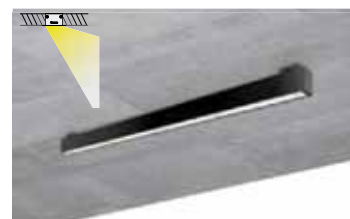
Liset 2.0 **HE** - **30°X80° ELLIPTIC** optics version

46



Liset 2.0 **HE** - **25° ASYMMETRIC** optics version

46



Liset 2.0 **HE** - **25° BI-ASYMMETRIC** optics version

46



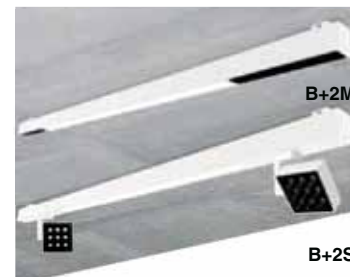
Liset 2.0 - **OPAL DIFFUSER** version

48



Liset 2.0 - special compositions with **CEILING** lamp

50



Liset 2.0 - **DARK LIGHT** optics version - **UGR<19**

52



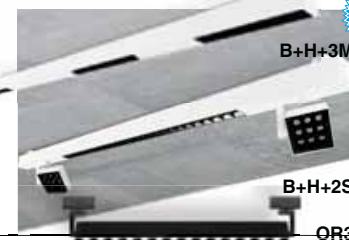
Liset 2.0 - **COMFORT** optics version

54



Liset 2.0 - special compositions with **COMFORT** optics

56



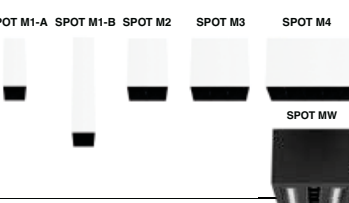
Liset 2.0 - wall version

58



Separate modules - **CEILING SPOTLIGHTS**

60



Liset 2.0 **TW** and **HCL** - **OPAL DIFFUSER** version

120



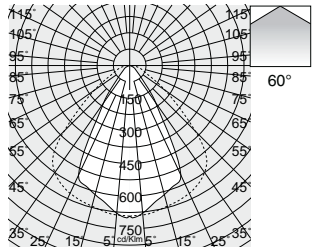
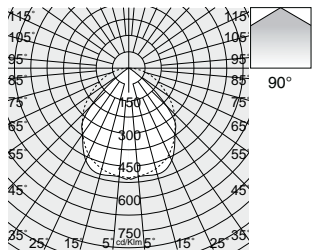
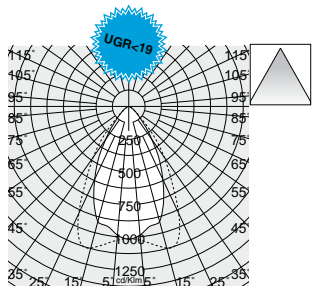
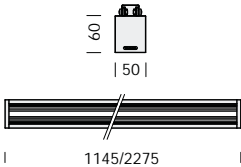
Liset 2.0 **TW** and **HCL** - **COMFORT** optics version

122





IP40 IK07 ▽



Upon request:
60° beam angle



Liset 2.0 HE - ceiling - UGR<19

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - elm - CRI
LED 2 modules	white	1145	2,40	22303403-00	26	4000K - 3673lm - CRI 80
	black			22303433-00		
LED 2 modules	white	1145	2,40	22303403-39	26	3000K - 3416lm - CRI 80
	black			22303433-39		
LED 4 modules	white	2275	4,80	22303404-00	52	4000K - 7346lm - CRI 80
	black			22303434-00		
LED 4 modules	white	2275	4,80	22303404-39	52	3000K - 6832lm - CRI 80
	black			22303434-39		
CLD D-DIG (DALI)						
LED 2 modules	white	1145	2,40	22303403-1241	26	4000K - 3673lm - CRI 80
	black			22303433-1241		
LED 2 modules	white	1145	2,40	22303403-3941	26	3000K - 3416lm - CRI 80
	black			22303433-3941		
LED 4 modules	white	2275	4,80	22303404-1241	52	4000K - 7346lm - CRI 80
	black			22303434-1241		
LED 4 modules	white	2275	4,80	22303404-3941	52	3000K - 6832lm - CRI 80
	black			22303434-3941		

Liset 2.0 HE - ceiling - 90°

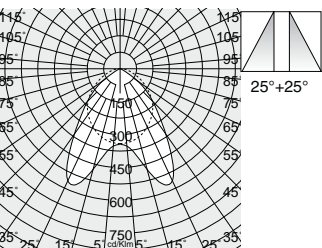
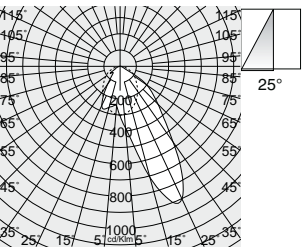
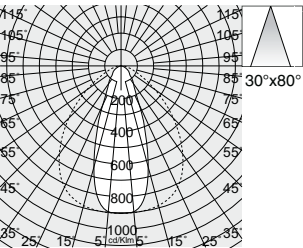
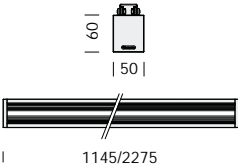
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303003-00	29	4000K - 3336lm - CRI 80
	black			22303033-00		
LED 4 modules	white	1145	2,40	22303003-39	29	3000K - 3103lm - CRI 80
	black			22303033-39		
LED 8 modules	white	2275	4,80	22303004-00	56	4000K - 6673lm - CRI 80
	black			22303034-00		
LED 8 modules	white	2275	4,80	22303004-39	56	3000K - 6206lm - CRI 80
	black			22303034-39		
CLD D-DIG (DALI)						
LED 4 modules	white	1145	2,40	22303003-1241	29	4000K - 3336lm - CRI 80
	black			22303033-1241		
LED 4 modules	white	1145	2,40	22303003-3941	29	3000K - 3103lm - CRI 80
	black			22303033-3941		
LED 8 modules	white	2275	4,80	22303004-1241	56	4000K - 6673lm - CRI 80
	black			22303034-1241		
LED 8 modules	white	2275	4,80	22303004-3941	56	3000K - 6206lm - CRI 80
	black			22303034-3941		

- Upon request:
- version with pass-through wiring for continuous line mounting with subcode **-0072**
 - PUSH-DIMM version with sub-code **-1245** (4000K) or **-3945** (3000K)
 - 1h EM version with subcode **-09** (4000K) or **-0928** (3000K)
 - 3h EM version with subcode **-31** (4000K) or **-3957** (3000K)

Upon request:
natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze



IP40 IK07 ▼



Liset 2.0 HE - ceiling - 30° x 80°

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	peso	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303104-00	29	4000K - 3319lm - CRI 80
	black			22303134-00		
LED 4 modules	white	1145	2,40	22303104-39	29	3000K - 3087lm - CRI 80
	black			22303134-39		
LED 8 modules	white	2275	4,80	22303105-00	56	4000K - 6638lm - CRI 80
	black			22303135-00		
LED 8 modules	white	2275	4,80	22303105-39	56	3000K - 6174lm - CRI 80
	black			22303135-39		
		CLD D-DIG (DALI)				
LED 4 modules	white	1145	2,40	22303104-1241	29	4000K - 3319lm - CRI 80
	black			22303134-1241		
LED 4 modules	white	1145	2,40	22303104-3941	29	3000K - 3087lm - CRI 80
	black			22303134-3941		
LED 8 modules	white	2275	4,80	22303105-1241	56	4000K - 6638lm - CRI 80
	black			22303135-1241		
LED 8 modules	white	2275	4,80	22303105-3941	56	3000K - 6174lm - CRI 80
	black			22303135-3941		

Liset 2.0 HE - ceiling - 25° asymmetric optics

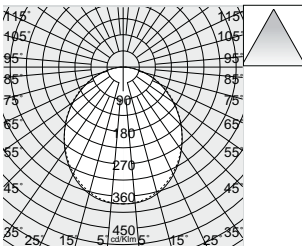
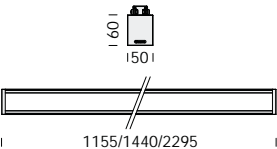
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	peso	code	W tot	K - elm - CRI
LED 4 modules	white	1145	2,40	22303203-00	29	4000K - 3091lm - CRI 80
	black			22303233-00		
LED 4 modules	white	1145	2,40	22303203-39	29	3000K - 2875lm - CRI 80
	black			22303233-39		
LED 8 modules	white	2275	4,80	22303204-00	56	4000K - 6182lm - CRI 80
	black			22303234-00		
LED 8 modules	white	2275	4,80	22303204-39	56	3000K - 5794lm - CRI 80
	black			22303234-39		
CLD D-DIG (DALI)						
LED 4 modules	white	1145	2,40	22303203-1241	29	4000K - 3091lm - CRI 80
	black			22303233-1241		
LED 4 modules	white	1145	2,40	22303203-3941	29	3000K - 2875lm - CRI 80
	black			22303233-3941		
LED 8 modules	white	2275	4,80	22303204-1241	56	4000K - 6182lm - CRI 80
	black			22303234-1241		
LED 8 modules	white	2275	4,80	22303204-3941	56	3000K - 5794lm - CRI 80
	black			22303234-3941		

Liset 2.0 HE - ceiling - 25° bi-asymmetric optics

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	peso	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303303-00	29	4000K - 3429lm - CRI 80
	black			22303333-00		
LED 4 modules	white	1145	2,40	22303303-39	29	3000K - 3189lm - CRI 80
	black			22303333-39		
LED 8 modules	white	2275	4,80	22303304-00	56	4000K - 6858lm - CRI 80
	black			22303334-00		
LED 8 modules	white	2275	4,80	22303304-39	56	3000K - 6378lm - CRI 80
	black			22303334-39		
		CLD D-DIG (DALI)				
LED 4 modules	white	1145	2,40	22303303-1241	29	4000K - 3429lm - CRI 80
	black			22303333-1241		
LED 4 modules	white	1145	2,40	22303303-3941	29	3000K - 3189lm - CRI 80
	black			22303333-3941		
LED 8 modules	white	2275	4,80	22303304-1241	56	4000K - 6858lm - CRI 80
	black			22303334-1241		
LED 8 modules	white	2275	4,80	22303304-3941	56	3000K - 6378lm - CRI 80
	black			22303334-3941		



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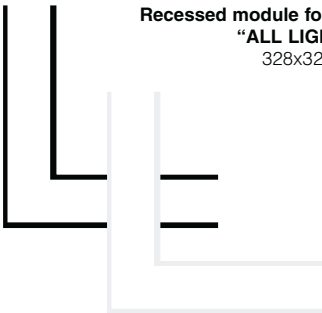
Accessories: see p. 40-41

Liset 2.0 - ceiling - with polycarbonate diffuser

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1155	2,30	22302203-00	28	4000K - 2530lm - CRI 80
	black			22302233-00		
LED 4 modules	white	1155	2,30	22302203-39	28	3000K - 2353lm - CRI 80
	black			22302233-39		
LED 5 modules	white	1440	2,90	22302204-00	35	4000K - 3163lm - CRI 80
	black			22302234-00		
LED 5 modules	white	1440	2,90	22302204-39	35	3000K - 2942lm - CRI 80
	black			22302234-39		
LED 8 modules	white	2295	4,50	22302205-00	55	4000K - 5060lm - CRI 80
	black			22302235-00		
LED 8 modules	white	2295	4,50	22302205-39	55	3000K - 4706lm - CRI 80
	black			22302235-39		
		CLD D-DIG (DALI)				
LED 4 modules	white	1155	2,30	22302203-1241	28	4000K - 2530lm - CRI 80
	black			22302233-1241		
LED 4 modules	white	1155	2,30	22302203-3941	28	3000K - 2353lm - CRI 80
	black			22302233-3941		
LED 5 modules	white	1440	2,90	22302204-1241	35	4000K - 3163lm - CRI 80
	black			22302234-1241		
LED 5 modules	white	1440	2,90	22302204-3941	35	3000K - 2942lm - CRI 80
	black			22302234-3941		
LED 8 modules	white	2295	4,50	22302205-1241	55	4000K - 5060lm - CRI 80
	black			22302235-1241		
LED 8 modules	white	2295	4,50	22302205-3941	55	3000K - 4706lm - CRI 80
	black			22302235-3941		

- Upon request:
- CRI 90 - 3000K and 4000K
 - pass-through wiring for continuous line mounting with subcode -0072
 - PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)
 - 1h EM version with subcode -09 (4000K) or -0928 (3000K)
 - 3h EM version with subcode -31 (4000K) or -3957 (3000K)
- Upon request:
- natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze

“ALL LIGHT” accessories that make the difference!

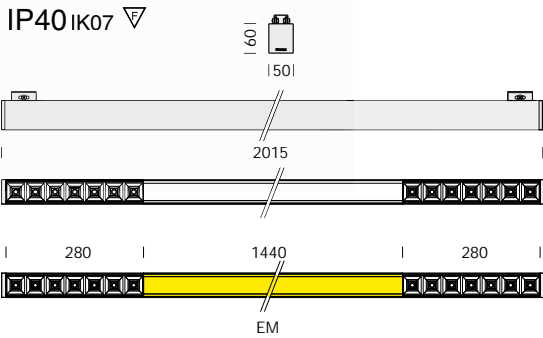


- black 22302631-00
white 22302611-00

Upon request: DIMM DALI version with sub-code -1241.
3000K version with sub-code -39.



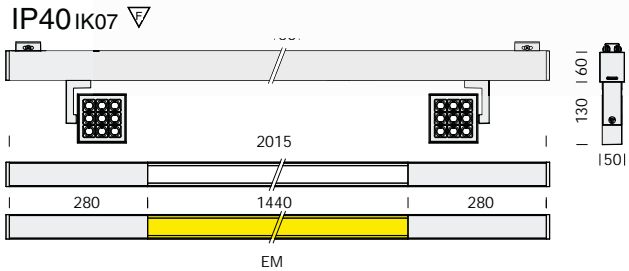
Liset 2.0 - B+2M - ceiling					
LED	housing	CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight	code	W tot
LED	white	2015	4,50	22302410-00	53
	black	2015	4,50	22302430-00	53
LED	housing	CLD D-DIG (DALI)			LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight	code	W tot
LED	white	2015	4,50	22302410-1241	53
	black	2015	4,50	22302430-1241	53



Standard composition: Liset 2.0 with diffuser + 2 modules with 65° black comfort optics (upon request with 76° beam angle). Standard version includes double switching.

- Upon request:**
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - PUSH-DIMM version with sub-code **-1245**
 - 1h EM version with subcode **-09**
 - 3h EM version with subcode **-31**

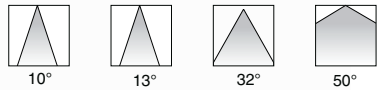
Liset 2.0 - ceiling with diffuser - compositions



Standard composition: Liset 2.0 with diffuser + 2 modules with 38° spotlight (upon request with 32° or 50° beam angles). Standard version includes double switching.

- Upon request:**
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - 1h EM version with subcode **-09**
 - 3h EM version with subcode **-31**

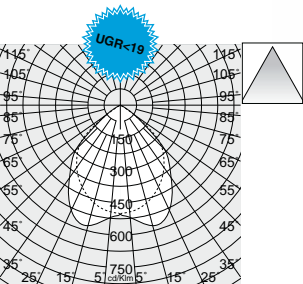
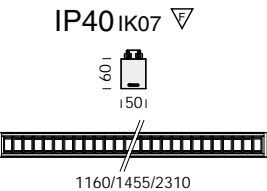
Upon request: special versions with other spotlights of the Matrix Q series are available
CRI 90 - 3000K or 4000K with different beam openings



Liset 2.0 - B+2S - ceiling - CRI 90					
LED	housing	CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight	code	W tot
LED	white	2015	5,50	22302411-00	101
	black	2015	5,50	22302431-00	101
LED	housing	CLD D-DIG (DALI)			LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight	code	W tot
LED	white	2015	5,50	22302411-1241	101
	black	2015	5,50	22302431-1241	101

Upon request: special versions with other spotlights of the Matrix Q series are available
CRI 90 - 3000K or 4000K





Liset 2.0 - ceiling - Dark light - UGR<19

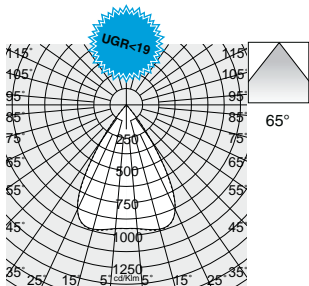
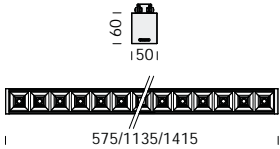
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1160	2,40	22302003-00	28	4000K - 2599lm - CRI 80
	black			22302033-00		
LED 5 modules	white	1455	3,00	22302004-00	35	4000K - 3249lm - CRI 80
	black			22302034-00		
LED 8 modules	white	2310	4,80	22302005-00	55	4000K - 5198lm - CRI 80
	black			22302035-00		
		CLD D-DIG (DALI)				
LED 4 modules	white	1160	2,40	22302003-1241	28	4000K - 2599lm - CRI 80
	black			22302033-1241		
LED 5 modules	white	1455	3,00	22302004-1241	35	4000K - 3249lm - CRI 80
	black			22302034-1241		
LED 8 modules	white	2310	4,80	22302005-1241	55	4000K - 5198lm - CRI 80
	black			22302035-1241		

- Upon request:
- **CRI 90** - 4000K
 - pass-through wiring for continuous line mounting with subcode **-0072**
 - PUSH-DIMM version with sub-code **-1245**
 - 1h EM version with subcode **-09**
 - 3h EM version with subcode **-31**

Upon request:
natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze



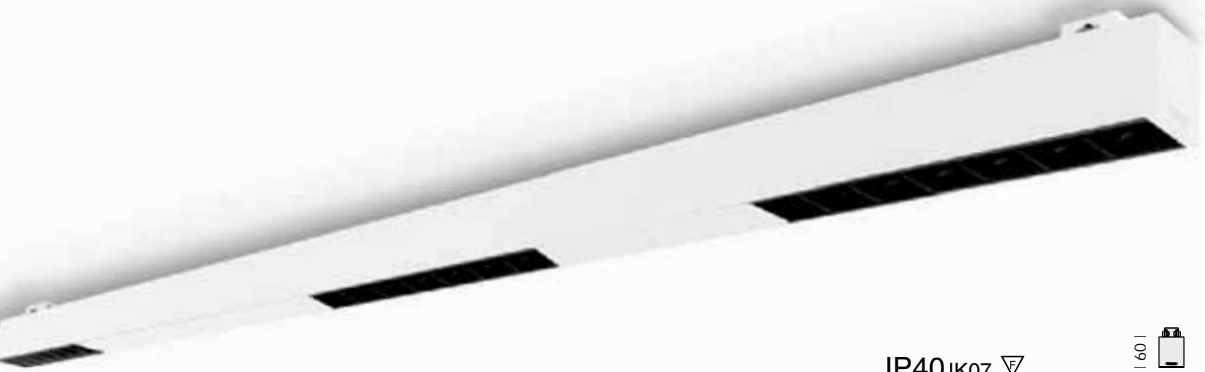
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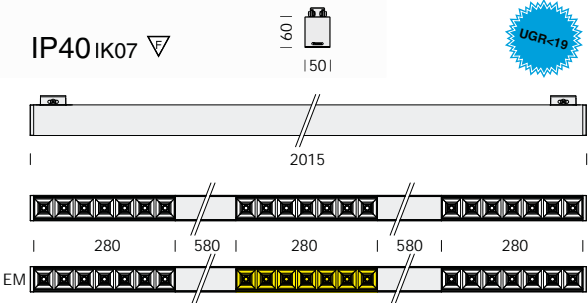
Liset 2.0 - ceiling - comfort optics - UGR<19						
		CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI - degrees
LED 14 lenses	white	575	1,60	22302104-00	18	4000K - 2486lm - CRI 80 - 65°
	black			22302134-00		
LED 14 lenses	white	575	1,60	22302104-39	18	3000K - 2405lm - CRI 80 - 65°
	black			22302134-39		
LED 28 lenses	white	1135	3,20	22302105-00	22	4000K - 3250lm - CRI 80 - 65°
	black			22302135-00		
LED 28 lenses	white	1135	3,20	22302105-39	22	3000K - 3144lm - CRI 80 - 65°
	black			22302135-39		
LED 35 lenses	white	1415	4,00	22302106-00	30	4000K - 4561lm - CRI 80 - 65°
	black			22302136-00		
LED 35 lenses	white	1415	4,00	22302106-39	30	3000K - 4413lm - CRI 80 - 65°
	black			22302136-39		
		CLD D-DIG (DALI)				
LED 14 lenses	white	575	1,60	22302104-1241	18	4000K - 2486lm - CRI 80 - 65°
	black			22302134-1241		
LED 14 lenses	white	575	1,60	22302104-3941	18	3000K - 2405lm - CRI 80 - 65°
	black			22302134-3941		
LED 28 lenses	white	1135	3,20	22302105-1241	22	4000K - 3250lm - CRI 80 - 65°
	black			22302135-1241		
LED 28 lenses	white	1135	3,20	22302105-3941	22	3000K - 3144lm - CRI 80 - 65°
	black			22302135-3941		
LED 35 lenses	white	1415	4,00	22302106-1241	30	4000K - 4561lm - CRI 80 - 65°
	black			22302136-1241		
LED 35 lenses	white	1415	4,00	22302106-3941	30	3000K - 4413lm - CRI 80 - 65°
	black			22302136-3941		

- Upon request:
- CRI 90 - 3000K and 4000K
 - pass-through wiring for continuous line mounting with subcode -0072
 - PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)
 - 1h EM version with subcode -09 (4000K) or -0928 (3000K)
 - 3h EM version with subcode -31 (4000K) or -3957 (3000K)
 - 76° beam version

Upon request:
natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze



Liset 2.0 - B+H+3M - ceiling - UGR<19					
		CLD (ON-OFF)			LUMEN USCENTI (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot
LED	white	2015	4,60	22302412-00	27
	black			22302432-00	
CLD D-DIG (DALI)					
LED	white	2015	4,60	22302412-1241	27
	black			22302432-1241	
4000K - 3x1243lm - CRI 80 - 65°					



Standard composition: 3 modules with 65° black comfort optics (upon request with 76° beam angle).

- Upon request:
- CRI 90 - 4000K
 - 3000K version with sub-code -39
 - PUSH-DIMM version with sub-code -1245
 - 1h EM version with subcode -09
 - 3h EM version with subcode -31
 - With RADAR SENSOR: sub-code -19

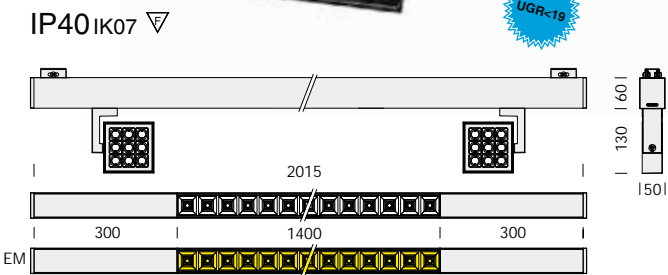
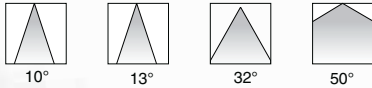


Liset 2.0 - OR3 - adjustable on ceiling/wall - comfort optics - UGR<19					
LED	housing	CLD (ON-OFF)		W tot	LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight		K - ølm - CRI - degrees
LED 14 lenses	white	575	1,50	18	4000K - 2486lm - CRI 80 - 65°
	black				
LED 14 lenses	white	575	1,50	18	3000K - 2405lm - CRI 80 - 65°
	black				

- Upon request:
- CRI 90 - 4000K
 - DIMM-DALI version with sub-code -1241 (4000K) or -3941 (3000K)
 - PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)
 - 76° beam version



Upon request: special versions with other spotlights of the Matrix Q series are available
CRI 90 - 3000K or 4000K with different beam openings



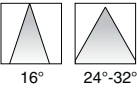
Standard composition: Liset 2.0 with 65° black comfort optics + 2 modules with 38° spotlight (upon request with 76° comfort optics + 32° or 50° spotlights).
Standard version includes double switching.

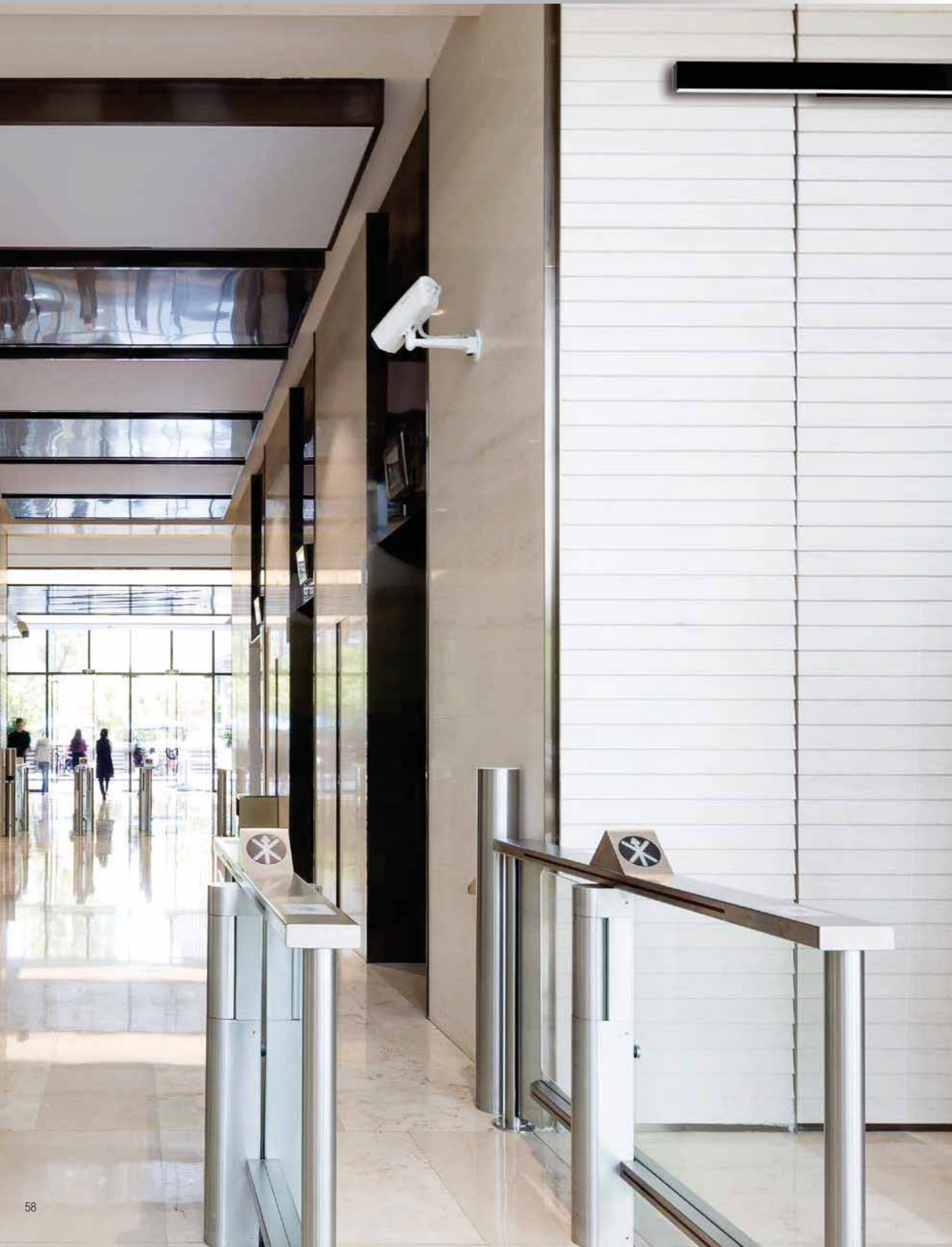
- Upon request:
- CRI 90 - 4000K
 - 3000K version with sub-code -39
 - PUSH-DIMM version with sub-code -1245
 - 1h EM version with subcode -09
 - 3h EM version with subcode -31

Liset 2.0 - B+M+2S - ceiling - UGR<19 - CRI 90						
		CLD (ON-OFF)				LUMEN USCENTI (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI - degrees
LED	white	2015	6,50	22302413-00	96	4000K - 4561lm - CRI 80 - 65°
						4000K - 2x2415lm - CRI 90 - 38°
LED	black	2015	6,50	22302433-00	96	4000K - 4561lm - CRI 80 - 65°
						4000K - 2x2415lm - CRI 90 - 38°
CLD D-DIG (DALI)						
LED	white	2015	6,50	22302413-1241	96	4000K - 4561lm - CRI 80 - 65°
						4000K - 2x2415lm - CRI 90 - 38°
LED	black	2015	6,50	22302433-1241	96	4000K - 4561lm - CRI 80 - 65°
						4000K - 2x2415lm - CRI 90 - 38°

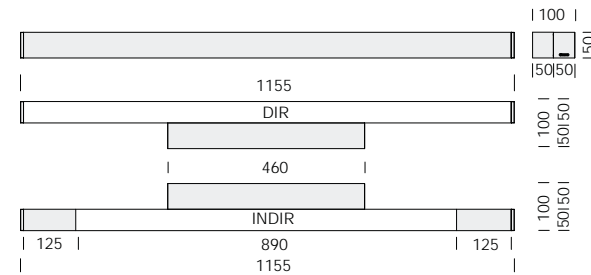


Upon request: special versions with other spotlights of the Matrix Q series are available
CRI 90 - 3000K or 4000K





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Upon request: different sizes and types of optics are available





A diagram showing a ceiling-mounted lighting fixture. The fixture is a rectangular unit with a switch on the left side. It is connected to a power source (labeled '220V-100V' and 'Max 30W') and has four spotlights hanging from it. The spotlights are labeled '147' and '22'.

Spot M1 A - M1 B - M2 - M3 - M5					
Acc.	M1 A	M1 B	M2	M3	M5
220 90812-00 ON-OFF 700 mA	Min. 1 Spot Max. 14 Spot	Min. 1 Spot Max. 14 Spot	Min. 1 Spot Max. 7 Spot	Min. 1 Spot Max. 4 Spot	Min. 1 Spot Max. 2 Spot
220 90813-1241 DIMM-DALI 700 mA	Min. 4 Spot Max. 18 Spot	Min. 4 Spot Max. 18 Spot	Min. 2 Spot Max. 9 Spot	Min. 2 Spot Max. 6 Spot	Min. 1 Spot Max. 3 Spot

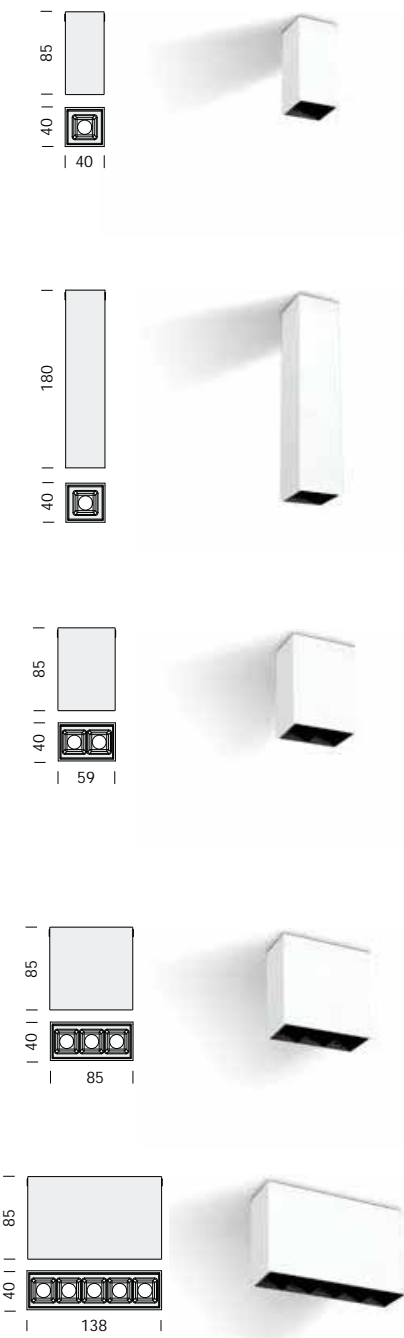
A diagram showing a ceiling-mounted lighting fixture. The fixture is a rectangular unit with a switch on the left side. It is connected to a power source (labeled '220V-100V' and 'Max 30W') and has four spotlights hanging from it. The spotlights are labeled '147' and '22'.

Driver ON-OFF	
white	220 90812-00
Min. 2V - Max 44V-30W (700mA).	

A diagram showing a ceiling-mounted lighting fixture. The fixture is a rectangular unit with a switch on the left side. It is connected to a power source (labeled '220V-100V' and 'Max 30W') and has four spotlights hanging from it. The spotlights are labeled '147' and '22'.

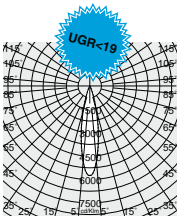
Driver DIMM-DALI	
white	220 90813-1241
Min. 10V - Max 54V-38W (700mA).	

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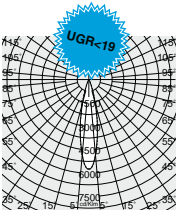
Spot M1-A - ceiling - **UGR<19** - **CRI 90**

		CLD S+L		LUMEN OUTPUT (tq= 25 °C)	
LED	colour	code	W tot	K - ølm - CRI - gradi	
1 module	white	22510101-00	2	4000K - 209lm	CRI 90 - 20°
		22510101-39		3000K - 194lm	CRI 90 - 20°
Upon request: 15°-30° version. Driver not included.					



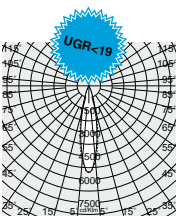
Spot M1-B - ceiling - **UGR<19** - **CRI 90**

		CLD S+L		LUMEN OUTPUT (tq= 25 °C)	
LED	colour	code	W tot	K - ølm - CRI - gradi	
1 module	white	22510104-00	2	4000K - 209lm	CRI 90 - 20°
		22510104-39		3000K - 194lm	CRI 90 - 20°
Upon request: 15°-30° version. Driver not included.					



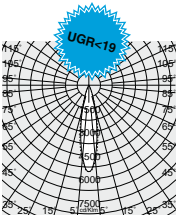
Spot M2 - ceiling - **UGR<19** - **CRI 90**

		CLD S+L		LUMEN OUTPUT (tq= 25 °C)	
LED	colour	code	W tot	K - ølm - CRI - gradi	
2 modules	white	22510102-00	4	4000K - 380lm	CRI 90 - 20°
		22510102-39		3000K - 353lm	CRI 90 - 20°
Upon request: 15°-30° version. Driver not included.					



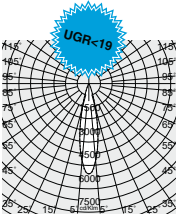
Spot M3 - ceiling - **UGR<19** - **CRI 90**

		CLD S+L		LUMEN OUTPUT (tq= 25 °C)	
LED	colour	code	W tot	K - ølm - CRI - gradi	
3 modules	white	22510103-00	6	4000K - 570lm - CRI 90 - 20°	
		22510103-39		3000K - 530lm - CRI 90 - 20°	
Upon request: 15°-30° version. Driver not included.					

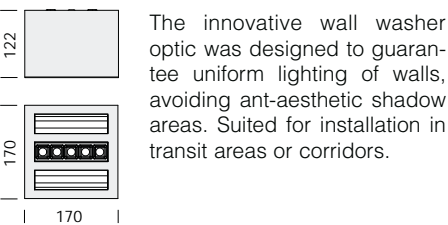


Spot M5 - ceiling - **UGR<19** - **CRI 90**

		CLD S+L		LUMEN OUTPUT (tq= 25 °C)	
LED	colour	code	W tot	K - ølm - CRI - gradi	
5 modules	white	22510105-00	10	4000K - 1034lm - CRI 90 - 20°	
		22510105-39		3000K - 962lm - CRI 90 - 20°	
Upon request: 15°-30° version. Driver not included.					



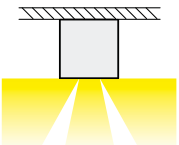
IP40 IK07



The innovative wall washer optic was designed to guarantee uniform lighting of walls, avoiding ant-aesthetic shadow areas. Suited for installation in transit areas or corridors.

Spot MW - ceiling - **UGR<19**

		CLD CELL		LUMEN OUTPUT (tq= 25 °C)	
LED	colour	code	W tot	K - ølm - CRI - gradi	
3 modules	black	22520101-00	36	4000K - 2070lm - CRI 90 - 15°	
		22520101-39		3000K - 1925lm - CRI 90 - 15°	
Upon request: 30° version. Driver inside.					



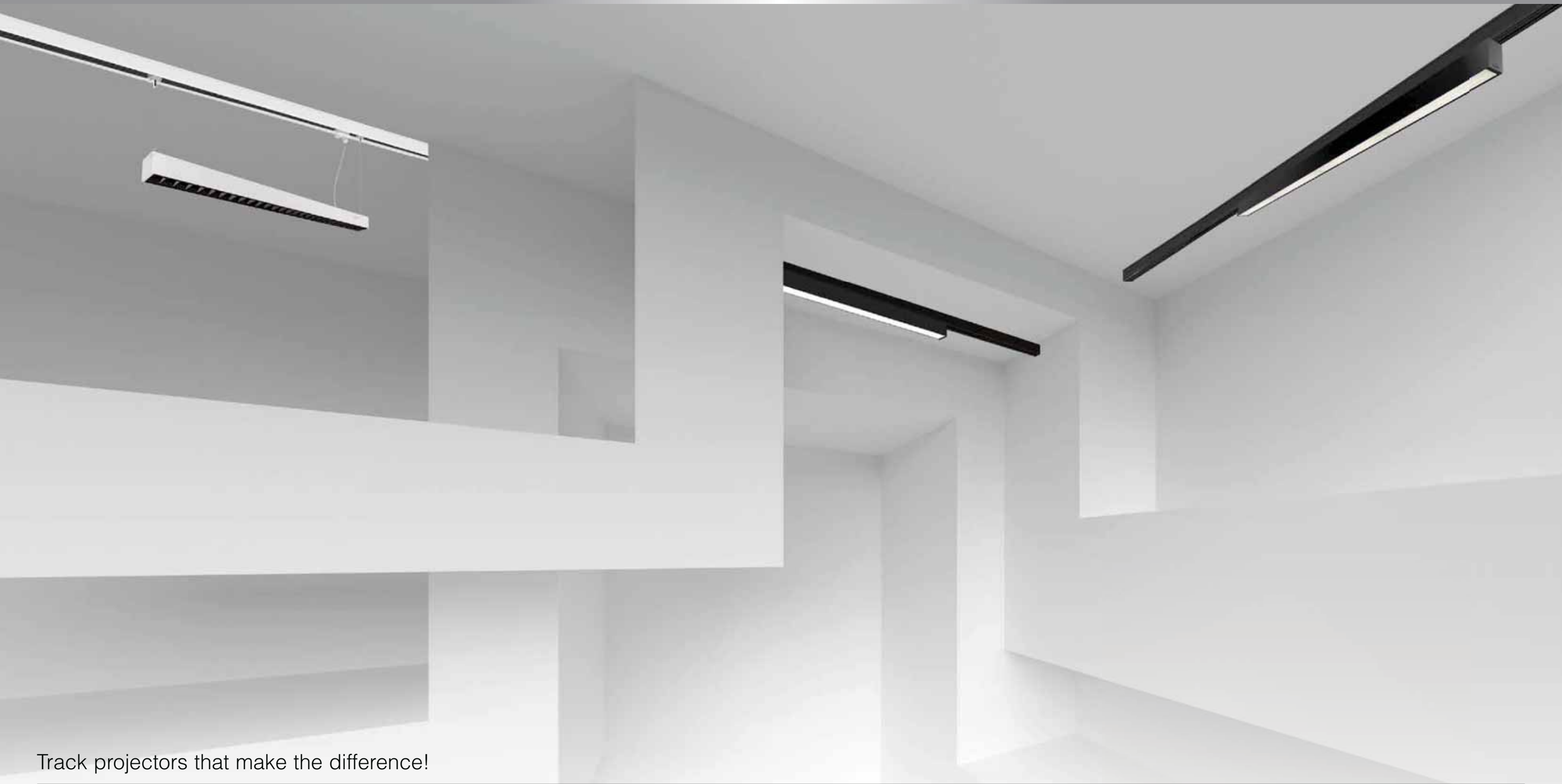


deal for the retail sector

Thanks to the versions made for Omnitrack Plus track systems, installation in large rooms is quick and easy.

The product can be equipped with adjustable spotlights for accent lighting solutions.





Track projectors that make the difference!



Matrix Q9

Matrix Q4

Matrix Q10

Matrix Q5

Omnitrack Plus

Liset 2.0 OR2



Liset 2.0 - for track

Liset 2.0 **HE** - **UGR19** optics version



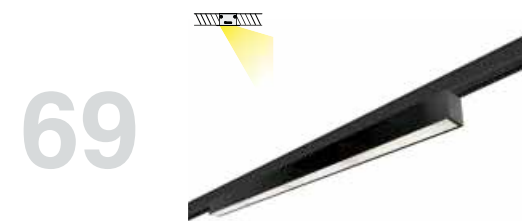
Liset 2.0 **HE** - **90° WIDE-BEAM** optics version (60° Upon request)



Liset 2.0 **HE** - **30°X80° ELLIPTIC** optics version



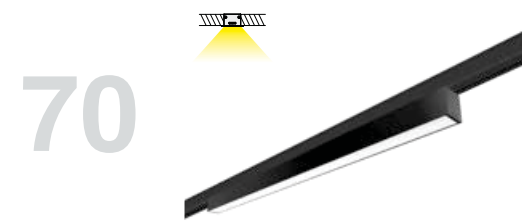
Liset 2.0 **HE** - **25° ASYMMETRIC** optics version



Liset 2.0 **HE** - **25° BI-ASYMMETRIC** optics version



Liset 2.0 - **OPAL DIFFUSER** version



Liset 2.0 - **DARK LIGHT** optics version - **UGR<19**



Liset 2.0 - **COMFORT** optics version



Liset 2.0 - special compositions with **COMFORT** optics

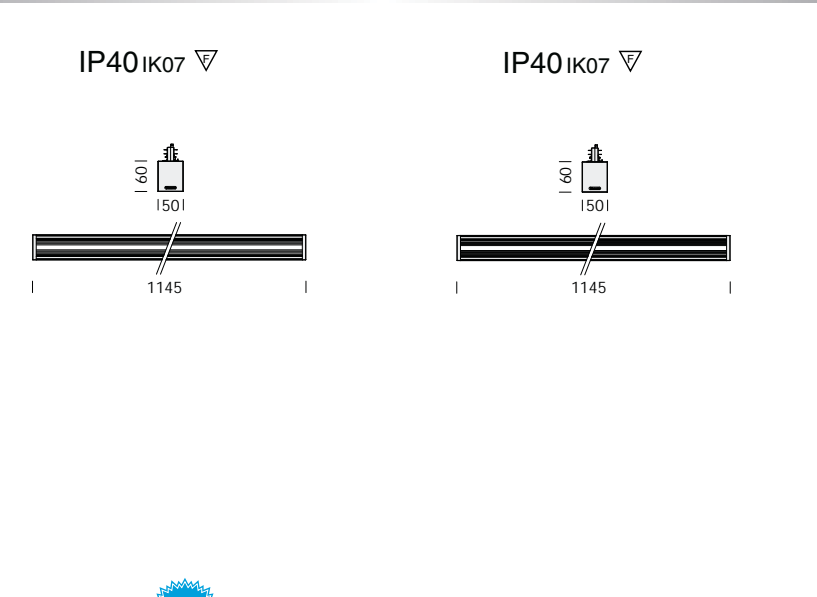


Matrix Q

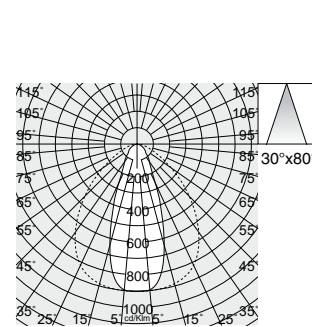
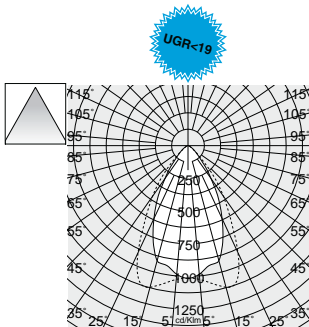


Omnitrack Plus



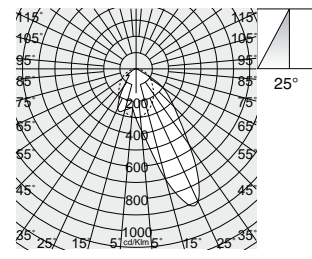
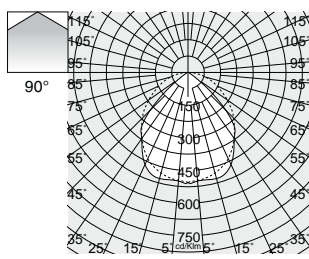


Liset 2.0 HE - track - UGR<19						
		CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot	K - olm - CRI
LED 2 modules	white	1145	2,40	22303405-00	26	4000K - 3673lm - CRI 80
	black			22303435-00		
LED 2 modules	white	1145	2,40	22303405-39	26	3000K - 3416lm - CRI 80
	black			22303435-39		
Upon request:						
• DIMM-DALI version with sub-code -124 (4000K) or -3941 (3000K)						

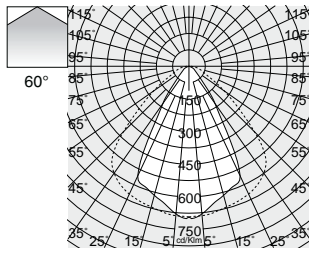


Liset 2.0 HE - track - 30° x 80°						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303107-00	29	4000K - 3319lm - CRI 80
	black			22303137-00		
LED 4 modules	white	1145	2,40	22303107-39	29	3000K - 3087lm - CRI 80
	black			22303137-39		
Upon request:						
• DIMM-DALI version with sub-code -124 (4000K) or -3941 (3000K)						

Liset 2.0 HE - track - 90°						
		CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303006-00	29	4000K - 3336lm - CRI 80
	black			22303036-00		
LED 4 modules	white	1145	2,40	22303006-39	29	3000K - 3103lm - CRI 80
	black			22303036-39		
Upon request:						
• DIMM-DALI version with sub-code -124 (4000K) or -3941 (3000K)						



Liset 2.0 HE - track - asymmetric 25°						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22 303206-00	29	4000K - 3091lm - CRI 80
	black			22 303236-00		
LED 4 modules	white	1145	2,40	22 303206-39	29	3000K - 2875lm - CRI 80
	black			22 303236-39		
Upon request:						
• DIMM-DALI version with sub-code -124 (4000K) or -3941 (3000K)						

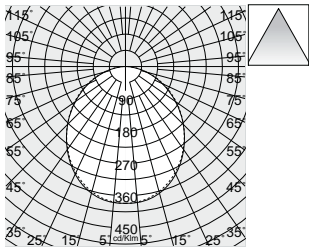
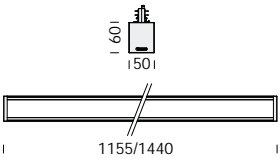


Upon request:
60° beam angle

Liset 2.0 HE - track - bi-asymmetric 25°						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303305-00	29	4000K - 3429lm - CRI 80
	black			22303335-00		
LED 4 modules	white	1145	2,40	22303305-39	29	3000K - 3189lm - CRI 80
	black			22303335-39		
Upon request:						
• DIMM-DALI version with sub-code -124 (4000K) or -3941 (3000K)						



IP40 IK07 ▽



Liset 2.0 - track - with polycarbonate diffuser					
LED	housing	CLD (ON-OFF)		W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI
		L (mm)	weight		
LED 4 modules	white	1155	2,30	28	4000K - 2530lm - CRI 80
	black				
LED 4 modules	white	1155	2,30	28	3000K - 2353lm - CRI 80
	black				
LED 5 modules	white	1440	2,90	35	4000K - 3163lm - CRI 80
	black				
LED 5 modules	white	1440	2,90	35	3000K - 2942lm - CRI 80
	black				

Upon request:

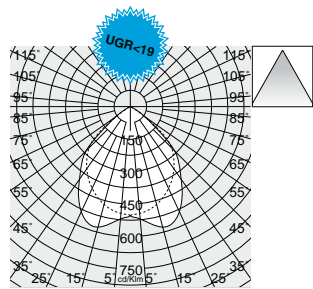
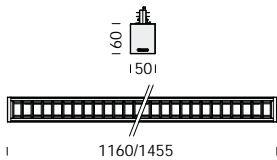
- CRI 90 - 3000K and 4000K
- DIMM-DALI version with sub-code -1241 (4000K) or -3941 (3000K)
- PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)

Accessories: see p. 64-65/78-79





IP40 IK07 ▽



Liset 2.0 - track - Dark light - UGR<19

LED	housing	CLD (ON-OFF)		W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI
		L (mm)	weight		
LED 4 modules	white	1160	2,40	28	4000K - 2599lm - CRI 80
	black				
LED 5 modules	white	1455	3,00	35	4000K - 3249lm - CRI 80
	black				

Upon request:

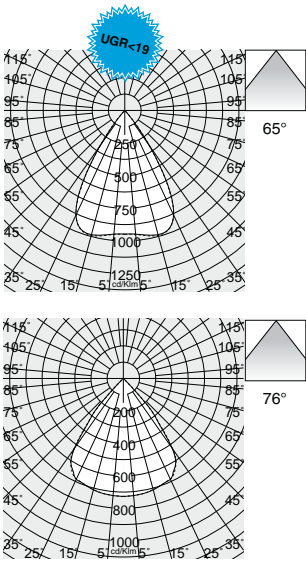
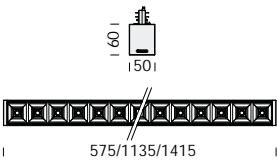
- CRI 90 - 4000K
- DIMM-DALI version with sub-code **-1241**
- PUSH-DIMM version with sub-code **-1245**

Accessories: see p. 64-65/78-79



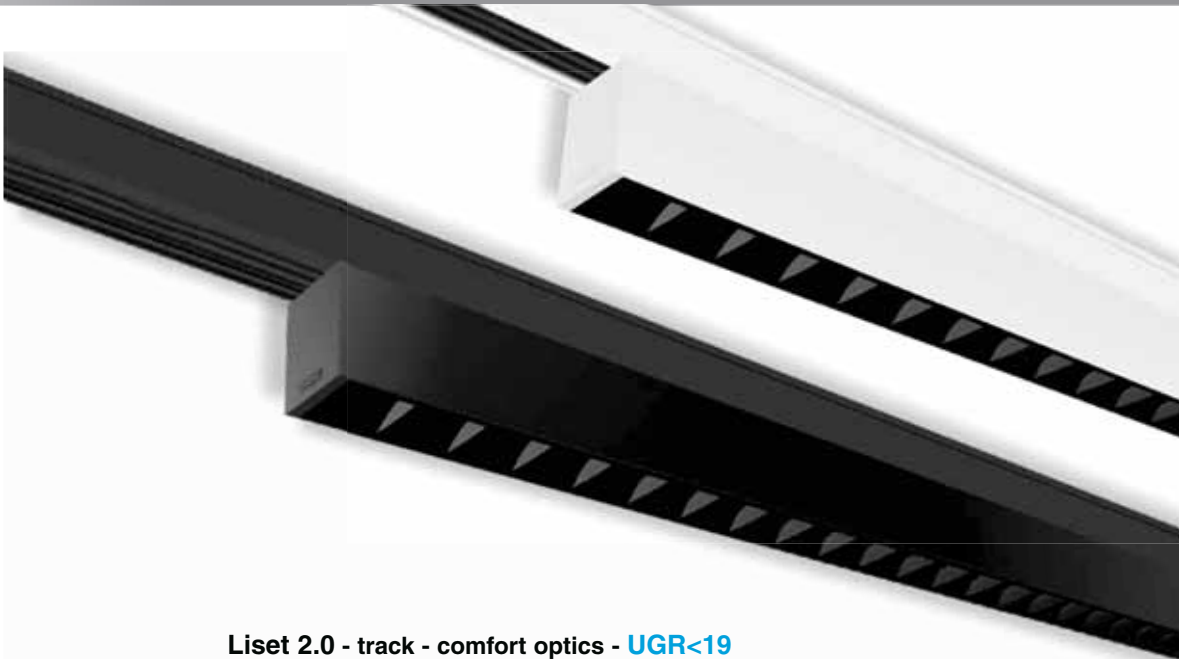


IP40 IK07 ▼



Upon request:
76° beam

Accessories: see p. 64-65/78-79



Liset 2.0 - track - comfort optics - **UGR<19**

LED	housing	CLD (ON-OFF)		W tot	LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight		K - ølm - CRI - gradi
LED 14 lenses	white	575	1,60	18	4000K - 2486lm - CRI 80 - 65°
	black				
LED 14 lenses	white	575	1,60	18	3000K - 2405lm - CRI 80 - 65°
	black				
LED 28 lenses	white	1135	3,20	22	4000K - 3250lm - CRI 80 - 65°
	black				
LED 28 lenses	white	1135	3,20	22	3000K - 3144lm - CRI 80 - 65°
	black				
LED 35 lenses	white	1415	4,00	30	4000K - 4561lm - CRI 80 - 65°
	black				
LED 35 lenses	white	1415	4,00	30	3000K - 4413lm - CRI 80 - 65°
	black				

- Upon request:
- **CRI 90** - 3000K and 4000K
 - DIMM-DALI version with sub-code **-1241** (4000K) or **-3941** (3000K)
 - PUSH-DIMM version with sub-code **-1245** (4000K) or **-3945** (3000K)

Upon request: version with white optics



UGR<19



Liset 2.0 - OR1 - adjustable on track - comfort optics - UGR<19

LED	housing	CLD (ON-OFF)		code	W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI - degrees
		L (mm)	weight			
LED 7 lenses	white	295	1,00	22304010-00	14	4000K - 2125lm - CRI 80 - 65°
	black			22304030-00		
LED 7 lenses	white	295	1,00	22304010-39	14	3000K - 2033lm - CRI 80 - 65°
	black			22304030-39		

Upon request:

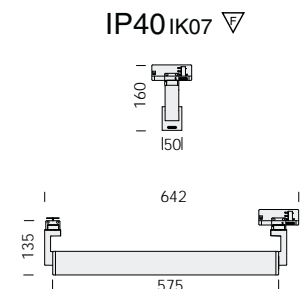
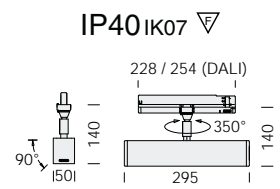
- CRI 90 - 3000K and 4000K
- DIMM-DALI version with sub-code -1241 (4000K) or -3941 (3000K)

Liset 2.0 - OR2 - adjustable on track - comfort optics - UGR<19

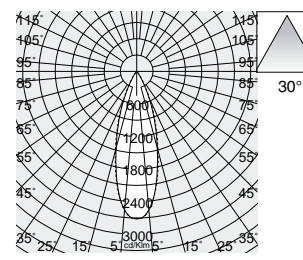
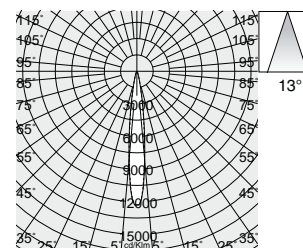
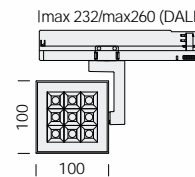
LED	housing	CLD (ON-OFF)		code	W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI - degrees
		L (mm)	weight			
LED 14 lenses	white	575	1,50	22304210-00	18	4000K - 2486lm - CRI 80 - 65°
	black			22304230-00		
LED 14 lenses	white	575	1,50	22304210-39	18	3000K - 2405lm - CRI 80 - 65°
	black			22304230-39		

Upon request:

- CRI 90 - 3000K and 4000K
- DIMM-DALI version with sub-code -1241 (4000K) or -3941 (3000K)
- 76° beam version



IP40 IK07



Upon request: 30° beam angle

Matrix Q9 DARK "C" - FS - universal adapter - CRI 90

		CLD		LUMEN OUTPUT (tq= 25 °C)	
LED	colour	weight	code	W tot	K - elm - CRI - degrees
LED	white	0,55	22103210-00	22	3000K - 1066lm - CRI 90 - 10°
	black		22103230-00		
LED	white	0,55	22103212-00	22	3000K - 998lm - CRI 90 - 13°
	black		22103232-00		
LED	white	0,55	22103216-00	30	3000K - 1436lm - CRI 90 - 10°
	black		22103236-00		
LED	white	0,55	22103217-00	30	3000K - 1368lm - CRI 90 - 13°
	black		22103237-00		
		CLD D-DIG (DALI)			
LED	white	0,55	22103210-1241	22	3000K - 1066lm - CRI 90 - 10°
	black		22103230-1241		
LED	white	0,55	22103212-1241	22	3000K - 998lm - CRI 90 - 13°
	black		22103232-1241		
LED	white	0,55	22103216-1241	30	3000K - 1436lm - CRI 90 - 10°
	black		22103236-1241		
LED	white	0,55	22103217-1241	30	3000K - 1368lm - CRI 90 - 13°
	black		22103237-1241		

Upon request:

- 30° beam angle
- CLD CELL-D (1-10V) version



Matrix Q5 Dark "C" - universal adapter - CRI 90

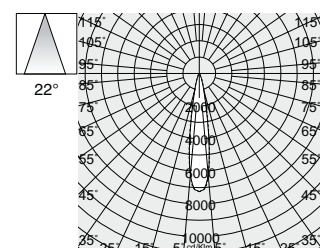
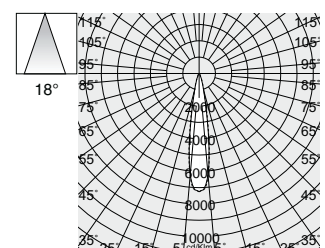
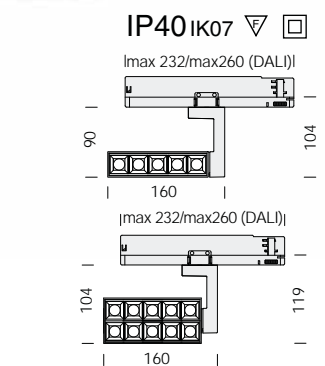
LED	colour	CLD CELL		code	W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI - degrees
		weight				
LED	white	0,20		22103311-39	13	3000K - 851lm - CRI 90 - 18°
				22103311-00		
LED	white	0,20		22103311-3941	13	3000K - 851lm - CRI 90 - 18°
				22103311-1241		

DALI dimmable version -1241 to be used with OMNITRACK PLUS track-mounted system.

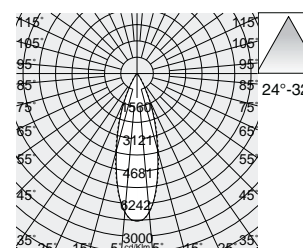
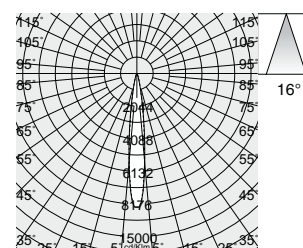
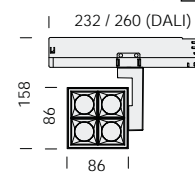
Matrix Q10 Dark "C" - universal adapter - CRI 90

LED	colour	CLD CELL		code	W tot	LUMEN OUTPUT (tq= 25 °C) K - ølm - CRI - degrees
		weight				
LED	white	0,30		22103611-39	20	3000K - 1731lm - CRI 90 - 22°
				22103611-00		
LED	white	0,30		22103611-3941	20	3000K - 1731lm - CRI 90 - 22°
				22103611-1241		

DALI dimmable version -1241 to be used with OMNITRACK PLUS track-mounted system.



IP40 IK07

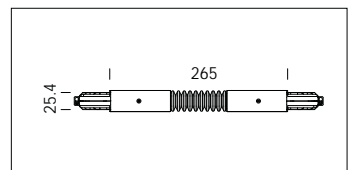
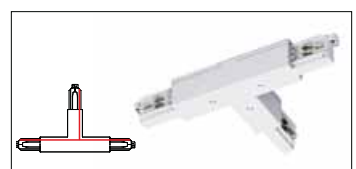
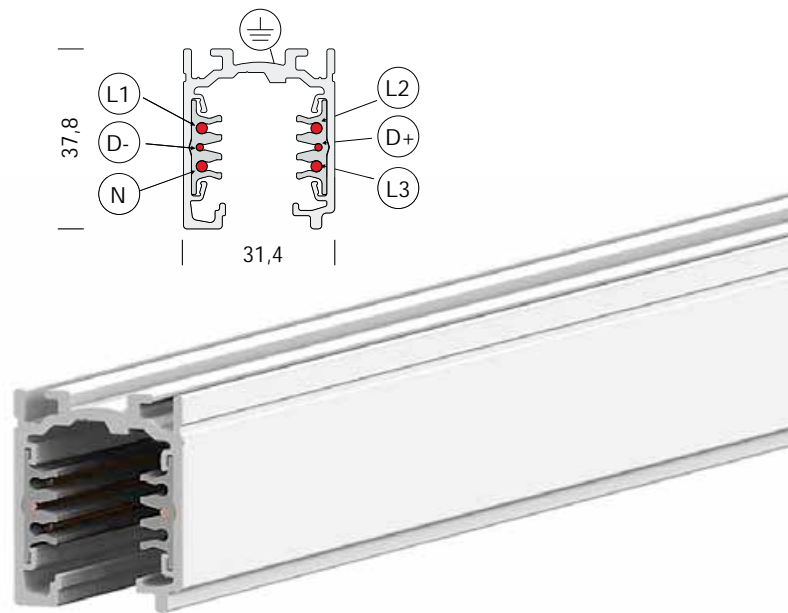


Matrix Q4 DARK - universal adapter- CRI 95

		CLD			LUMEN OUTPUT (tq= 25 °C)	
LED	colour	weight	code	W tot	K - ølm - CRI - degrees	
LED	white	0,40	22103710-00	19	4000K - 1145lm - CRI 95 - 16°	
			22103710-39		3000K - 1070lm - CRI 95 - 16°	
LED	white	0,40	22103711-00	19	4000K - 1484lm - CRI 95 - 24°	
			22103711-39		3000K - 1387lm - CRI 95 - 24°	
LED	white	0,40	22103712-00	19	4000K - 1573lm - CRI 95 - 32°	
			22103712-39		3000K - 1470lm - CRI 95 - 32°	
		CLD D-DIG (DALI)				
LED	white	0,40	22103710-1241	19	4000K - 1145lm - CRI 95 - 16°	
			22103710-3941		3000K - 1070lm - CRI 95 - 16°	
LED	white	0,40	22103711-1241	19	4000K - 1484lm - CRI 95 - 24°	
			22103711-3941		3000K - 1387lm - CRI 95 - 24°	
LED	white	0,40	22103712-1241	19	4000K - 1573lm - CRI 95 - 32°	
			22103712-3941		3000K - 1470lm - CRI 95 - 32°	

Upon request:

- CLD CELL-D (1-10V) version





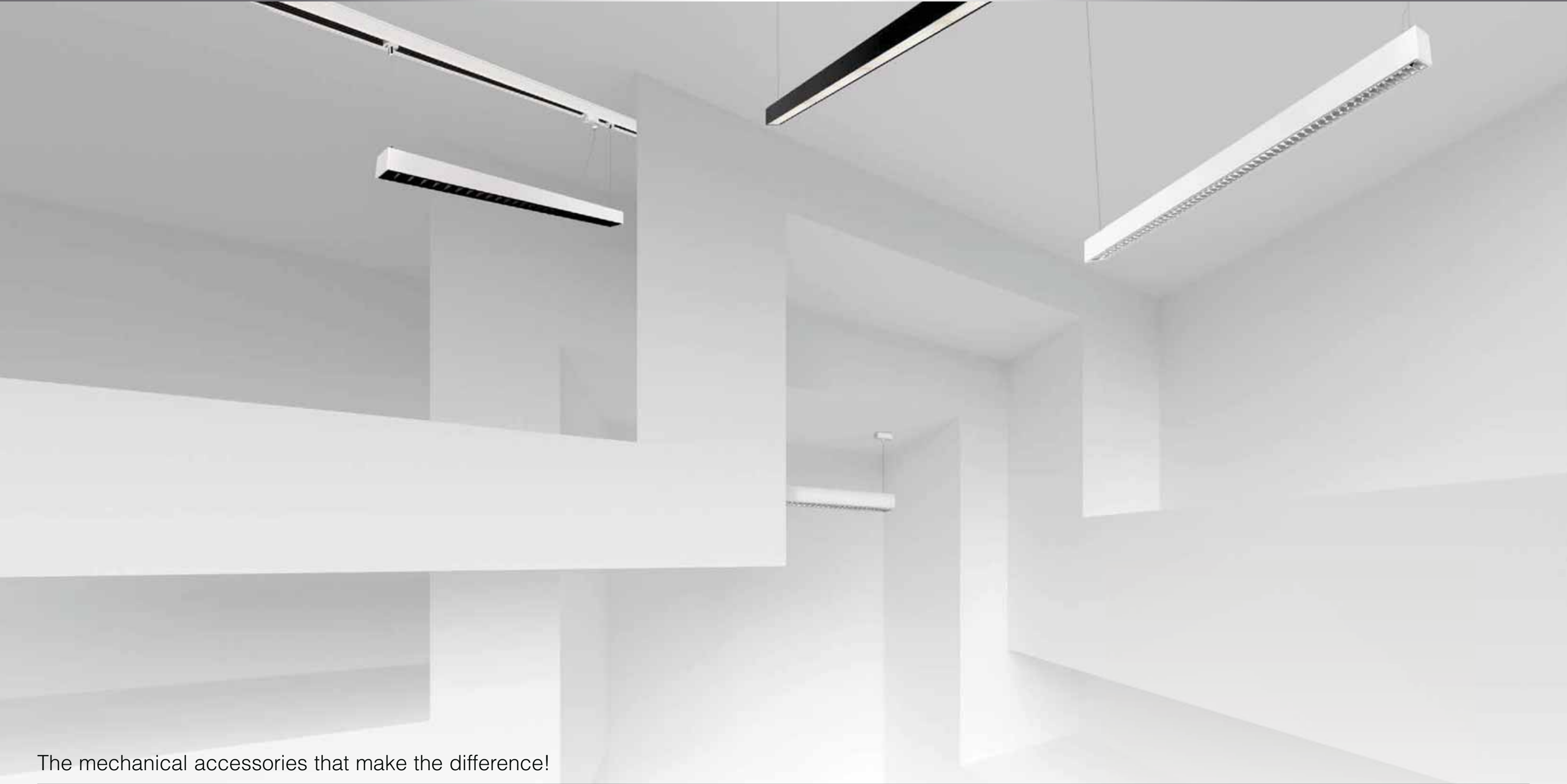
Lighting of excellence for stylish interiors.

The product's mounting freedom offers the possibility to create elegant and sophisticated lighting atmospheres.

The clean-cut geometry of Liset 2.0 blends seamlessly into any modern, refined setting.

Carefree Design!





The mechanical accessories that make the difference!



Suspension module for angular mounting S
158x158 mm

black 22302630-03
white 22302610-03



Linear module for suspension mounting S
560 mm

black 22385632-03
white 22385612-03



Connecting bracket
It permits mechanical connection of the profiles in a continuous line.

galvanized 22025877-00



Liset 2.0 - suspension

Liset 2.0 HE - UGR19 optics version

86

Liset 2.0 HE - 90° WIDE-BEAM optics version (60° Upon request)

86

Liset 2.0 HE - 30°X80° ELLIPTIC optics version

87

Liset 2.0 HE - 25° ASYMMETRIC optics version

87

Liset 2.0 HE - 25° BI-ASYMMETRIC optics version

87

Liset 2.0 - OPAL DIFFUSER version

88

Liset 2.0 - special compositions

90

Liset 2.0 - DARK LIGHT optics version - UGR<19

92

Liset 2.0 - COMFORT optics version

94

Liset 2.0 - special compositions with COMFORT optics

96

Liset 2.0 - compositions

102

Liset 2.0 - floor/table lamp

110

Liset 2.0 TW and HCL - OPAL DIFFUSER version

124

Liset 2.0 TW and HCL - COMFORT optics version

126



Liset 2.0 HE - suspension - direct light - UGR<19

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 2 modules	white	1145	2,40	22303406-00	26	4000K - 3673lm - CRI 80
	black			22303436-00		
LED 2 modules	white	1145	2,40	22303406-39	26	3000K - 3416lm - CRI 80
	black			22303436-39		
LED 4 modules	white	2275	4,80	22303407-00	52	4000K - 7346lm - CRI 80
	black			22303437-00		
LED 4 modules	white	2275	4,80	22303407-39	52	3000K - 6832lm - CRI 80
	black			22303437-39		
CLD D-DIG (DALI)						
LED 2 modules	white	1145	2,40	22303406-1241	26	4000K - 3673lm - CRI 80
	black			22303436-1241		
LED 2 modules	white	1145	2,40	22303406-3941	26	3000K - 3416lm - CRI 80
	black			22303436-3941		
LED 4 modules	white	2275	4,80	22303407-1241	52	4000K - 7346lm - CRI 80
	black			22303437-1241		
LED 4 modules	white	2275	4,80	22303407-3941	52	3000K - 6832lm - CRI 80
	black			22303437-3941		

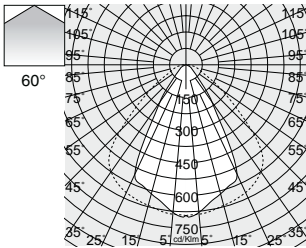
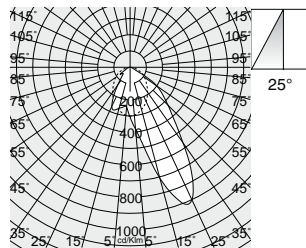
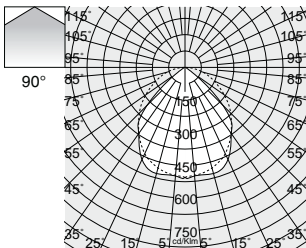
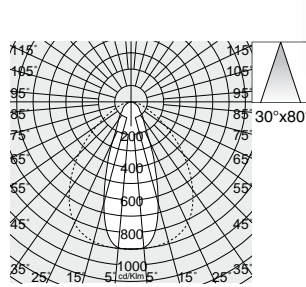
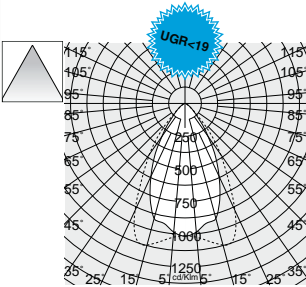
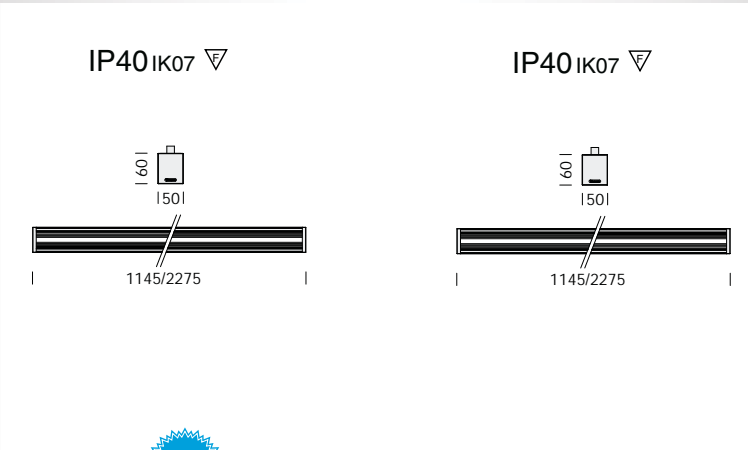
Liset 2.0 HE - suspension - direct light - 90°

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303008-00	29	4000K - 3336lm - CRI 80
	black			22303038-00		
LED 4 modules	white	1145	2,40	22303008-39	29	3000K - 3103lm - CRI 80
	black			22303038-39		
LED 8 modules	white	2275	4,80	22303009-00	56	4000K - 6673lm - CRI 80
	black			22303039-00		
LED 8 modules	white	2275	4,80	22303009-39	56	3000K - 6206lm - CRI 80
	black			22303039-39		
CLD D-DIG (DALI)						
LED 4 modules	white	1145	2,40	22303008-1241	29	4000K - 3336lm - CRI 80
	black			22303038-1241		
LED 4 modules	bianco	1145	2,40	22303008-3941	29	3000K - 3103lm - CRI 80
	nero			22303038-3941		
LED 8 modules	bianco	2275	4,80	22303009-1241	56	4000K - 6673lm - CRI 80
	nero			22303039-1241		
LED 8 modules	bianco	2275	4,80	22303009-3941	56	3000K - 6206lm - CRI 80
	black			22303039-3941		

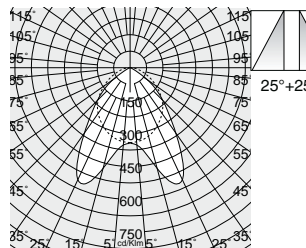
- Upon request:
- version with pass-through wiring for continuous line mounting with subcode **-0072**
 - PUSH-DIMM version with sub-code **-1245** or **-3945** (3000K)

Upon request:
natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze

Accessories: see p. 106-107



Upon request:
60° beam angle



Liset 2.0 HE - suspension - direct light - 30° x 80°

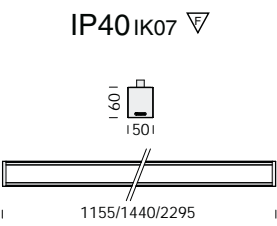
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303110-00	29	4000K - 3319lm - CRI 80
	black			22303130-00		
LED 4 modules	white	1145	2,40	22303110-39	29	3000K - 3087lm - CRI 80
	black			22303130-39		
LED 8 modules	white	2275	4,80	22303111-00	56	4000K - 6638lm - CRI 80
	black			22303131-00		
LED 8 modules	white	2275	4,80	22303111-39	56	3000K - 6174lm - CRI 80
	black			22303131-39		
		CLD D-DIG (DALI)				
LED 4 modules	white	1145	2,40	22303110-1241	29	4000K - 3319lm - CRI 80
	black			22303130-1241		
LED 4 modules	white	1145	2,40	22303110-3941	29	3000K - 3087lm - CRI 80
	black			22303130-3941		
LED 8 modules	white	2275	4,80	22303111-1241	56	4000K - 6638lm - CRI 80
	black			22303131-1241		
LED 8 modules	white	2275	4,80	22303111-3941	56	3000K - 6174lm - CRI 80
	black			22303131-3941		

Liset 2.0 HE - suspension - direct light - 25° asymmetric optics

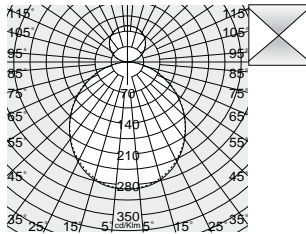
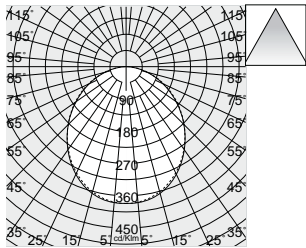
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303208-00	29	4000K - 3091lm - CRI 80
	black			22303238-00		
LED 4 modules	white	1145	2,40	22303208-39	29	3000K - 2875lm - CRI 80
	black			22303238-39		
LED 8 modules	white	2275	4,80	22303209-00	56	4000K - 6182lm - CRI 80
	black			22303239-00		
LED 8 modules	white	2275	4,80	22303209-39	56	3000K - 5794lm - CRI 80
	black			22303239-39		
CLD D-DIG (DALI)						
LED 4 modules	white	1145	2,40	22303208-1241	29	4000K - 3091lm - CRI 80
	black			22303238-1241		
LED 4 modules	white	1145	2,40	22303208-3941	29	3000K - 2875lm - CRI 80
	black			22303238-3941		
LED 8 modules	white	2275	4,80	22303209-1241	56	4000K - 6182lm - CRI 80
	black			22303239-1241		
LED 8 modules	white	2275	4,80	22303209-3941	56	3000K - 5794lm - CRI 80
	black			22303239-3941		

Liset 2.0 HE - suspension - direct light - 25° bi-symmetric optics

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1145	2,40	22303306-00	29	4000K - 3429lm - CRI 80
	black			22303336-00		
LED 4 modules	white	1145	2,40	22303306-39	29	3000K - 3189lm - CRI 80
	black			22303336-39		
LED 8 modules	white	2275	4,80	22303307-00	56	4000K - 6858lm - CRI 80
	black			22303337-00		
LED 8 modules	white	2275	4,80	22303307-39	56	3000K - 6378lm - CRI 80
	black			22303337-39		
		CLD D-DIG (DALI)				
LED 4 modules	white	1145	2,40	22303306-1241	29	4000K - 3429lm - CRI 80
	black			22303336-1241		
LED 4 modules	white	1145	2,40	22303306-3941	29	3000K - 3189lm - CRI 80
	black			22303336-3941		
LED 8 modules	white	2275	4,80	22303307-1241	56	4000K - 6858lm - CRI 80
	black			22303337-1241		
LED 8 modules	white	2275	4,80	22303307-3941	56	3000K - 6378lm - CRI 80
	black			22303337-3941		



Accessories: see p. 82-83/106-107



Liset 2.0 - suspension - direct light - with polycarbonate diffuser

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1155	2,30	22302208-00	28	4000K - 2530lm - CRI 80
	black			22302238-00		
LED 5 modules	white	1440	2,90	22302209-00	35	4000K - 3163lm - CRI 80
	black			22302239-00		
LED 8 modules	white	2295	4,50	22302210-00	55	4000K - 5060lm - CRI 80
	black			22302230-00		
		CLD D-DIG (DALI)				
LED 4 modules	white	1155	2,30	22302208-1241	28	4000K - 2530lm - CRI 80
	black			22302238-1241		
LED 5 modules	white	1440	2,90	22302209-1241	35	4000K - 3163lm - CRI 80
	black			22302239-1241		
LED 8 modules	white	2295	4,50	22302210-1241	55	4000K - 5060lm - CRI 80
	black			22302230-1241		

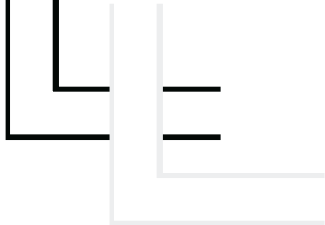
Liset 2.0 - suspension - direct/indirect light - with polycarbonate diffuser

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 5 modules	white	1440	3,10	22302211-00	42	4000K - 3779lm - CRI 80
	black			22302231-00		
LED 8 modules	white	2295	4,70	22302212-00	72	4000K - 6662lm - CRI 80
	black			22302232-00		
CLD D-DIG (DALI)						
LED 5 modules	white	1440	3,10	22302211-1241	42	4000K - 3779lm - CRI 80
	black			22302231-1241		
LED 8 modules	white	2295	4,70	22302212-1241	72	4000K - 6662lm - CRI 80
	black			22302232-1241		

- Upon request:
- CRI 90 - 4000K
 - 3000K version with sub-code -39
 - pass-through wiring for continuous line mounting with subcode -0072
 - PUSH-DIMM version with sub-code -1245
 - Upon request:
 - natural light wood, natural dark wood
 - smooth: silver, anodic ice, golden beach, bronze

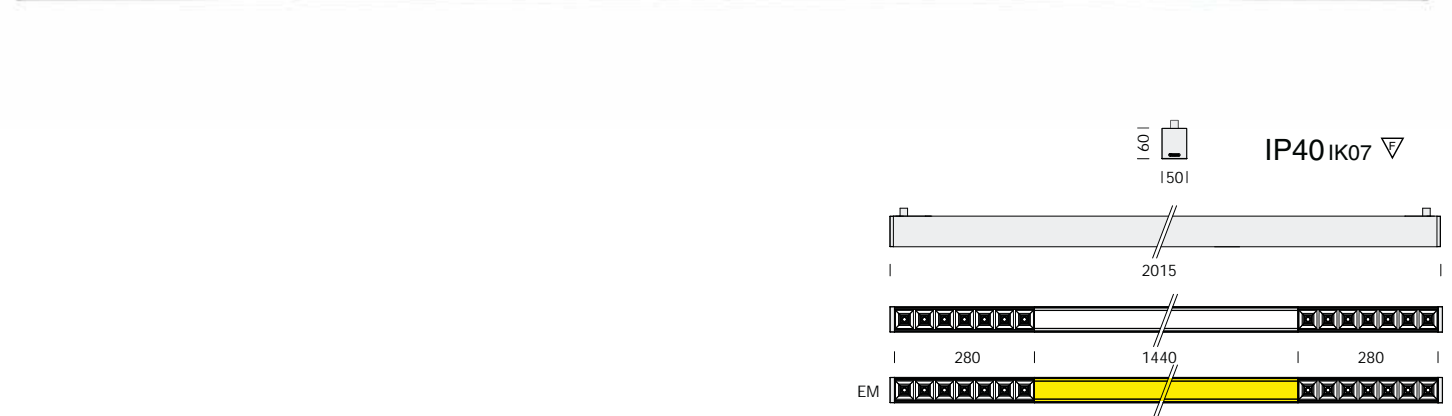
“ALL LIGHT” accessories that make the difference!

Suspension module for angular mounting
“ALL LIGHT” 14W
328x328 mm



- black 22302632-00
white 22302612-00

Upon request: DIMM DALI version with sub-code -1241.
3000K version with sub-code -39.

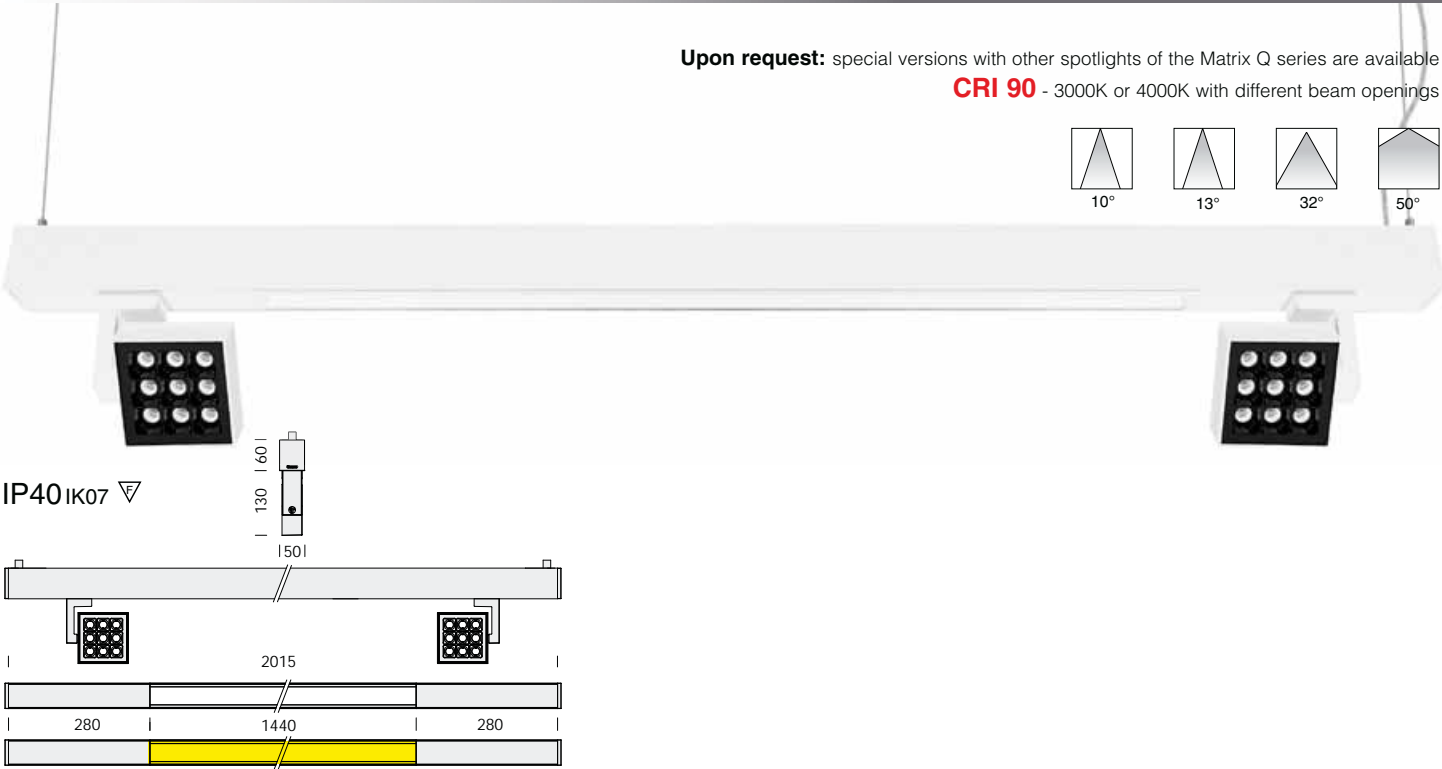


Liset 2.0 - C+2M - suspension						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED	white	2015	4,50	22302510-00	53	4000K - 3163lm - CRI 80 4000K - 2x1243lm - CRI 80 - 65°
	black			22302530-00	53	4000K - 3163lm - CRI 80 4000K - 2x1243lm - CRI 80 - 65°
		CLD D-DIG (DALI)				
LED	white	2015	4,50	22302510-1241	53	4000K - 3163lm - CRI 80 4000K - 2x1243lm - CRI 80 - 65°
	black			22302530-1241	53	4000K - 3163lm - CRI 80 4000K - 2x1243lm - CRI 80 - 65°

Standard composition: Liset 2.0 with diffuser + 2 modules with 65° black comfort optics (upon request with 76° beam angle). Standard version includes double switching.

- Upon request:**
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - PUSH-DIMM version with sub-code **-1245**
 - version 1h EM with subcode **-09**
 - version 3h EM with subcode **-31**

Liset 2.0 - suspension with diffuser - compositions



Standard composition: Liset 2.0 with diffuser + 2 modules with 38° spotlight (upon request with 32° or 50° beam angles). Standard version includes double switching.

- Upon request:**
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - PUSH-DIMM version with sub-code **-1245**
 - version 1h EM with subcode **-09**
 - version 3h EM with subcode **-31**

Upon request: special versions with other spotlights of the Matrix Q series are available
CRI 90 - 3000K or 4000K with different beam openings

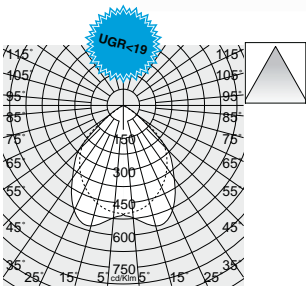
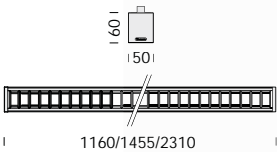
Liset 2.0 - C+2S - suspension - CRI 90						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED	white	2015	5,50	22302511-00	101	4000K - 3163lm - CRI 80 4000K - 2x2415lm - CRI 90 - 38°
	black			22302531-00	101	4000K - 3163lm - CRI 80 4000K - 2x2415lm - CRI 90 - 38°
		CLD D-DIG (DALI)				
LED	white	2015	5,50	22302511-1241	101	4000K - 3163lm - CRI 80 4000K - 2x2415lm - CRI 90 - 38°
	black			22302531-1241	101	4000K - 3163lm - CRI 80 4000K - 2x2415lm - CRI 90 - 38°

Upon request: special versions with other spotlights of the Matrix Q series are available
CRI 90 - 3000K or 4000K





IP40 IK07 ▽

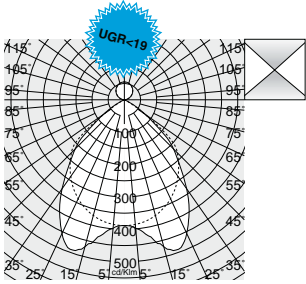


Liset 2.0 - suspension - direct light - Dark light - UGR<19

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 4 modules	white	1160	2,40	22302008-00	28	4000K - 2599lm - CRI 80
	black			22302038-00		
LED 5 modules	white	1455	3,00	22302009-00	35	4000K - 3249lm - CRI 80
	black			22302039-00		
LED 8 modules	white	2310	4,80	22302010-00	55	4000K - 5198lm - CRI 80
	black			22302030-00		
		CLD D-DIG (DALI)				
LED 4 moduli	white	1160	2,40	22302008-1241	28	4000K - 2599lm - CRI 80
	black			22302038-1241		
LED 5 moduli	white	1455	3,00	22302009-1241	35	4000K - 3249lm - CRI 80
	black			22302039-1241		
LED 8 moduli	white	2310	4,80	22302010-1241	55	4000K - 5198lm - CRI 80
	black			22302030-1241		

- Upon request:
- CRI 90 - 4000K
 - pass-through wiring for continuous line mounting with subcode -0072
 - PUSH-DIMM version with sub-code -1245

Upon request:
natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze



Liset 2.0 - suspension - direct/indirect light - Dark light - UGR<19

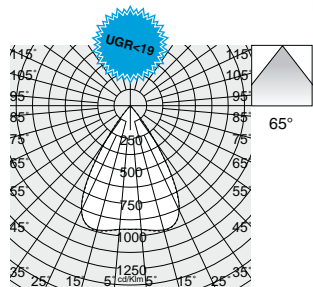
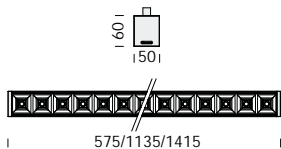
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 5 modules	white	1455	3,20	22302011-00	42	4000K - 3865lm - CRI 80
	black			22302031-00		
LED 8 modules	white	2310	4,90	22302012-00	72	4000K - 6800lm - CRI 80
	black			22302032-00		
		CLD D-DIG (DALI)				
LED 5 modules	white	1455	3,20	22302011-1241	42	4000K - 3865lm - CRI 80
	black			22302031-1241		
LED 8 modules	white	2310	4,90	22302012-1241	72	4000K - 6800lm - CRI 80
	black			22302032-1241		

- Sur demande :
- CRI 90 - 4000K
 - pass-through wiring for continuous line mounting with subcode -0072
 - PUSH-DIMM version with sub-code -1245

Upon request:
natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze



IP40IK07 ▽



Liset 2.0 - suspension - direct light - comfort optics - UGR<19

		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI - gradi
LED 14 lenses	white	575	1,60	22302110-00	18	4000K - 2486lm - CRI 80 - 65°
	black			22302130-00		
LED 28 lenses	white	1135	3,20	22302111-00	22	4000K - 3250lm - CRI 80 - 65°
	black			22302131-00		
LED 35 lenses	white	1415	4,00	22302112-00	30	4000K - 4561lm - CRI 80 - 65°
	black			22302132-00		
		CLD D-DIG (DALI)				
LED 14 lenses	white	575	1,60	22302110-1241	18	4000K - 2486lm - CRI 80 - 65°
	black			22302130-1241		
LED 28 lenses	white	1135	3,20	22302111-1241	22	4000K - 3250lm - CRI 80 - 65°
	black			22302131-1241		
LED 35 lenses	white	1415	4,00	22302112-1241	30	4000K - 4561lm - CRI 80 - 65°
	black			22302132-1241		

- Upon request:
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - Pass-through wiring for continuous line mounting with subcode **-0072**
 - PUSH-DIMM version with sub-code **-1245**
 - 76° beam version

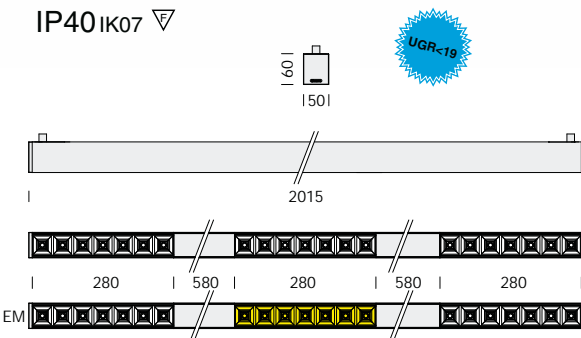
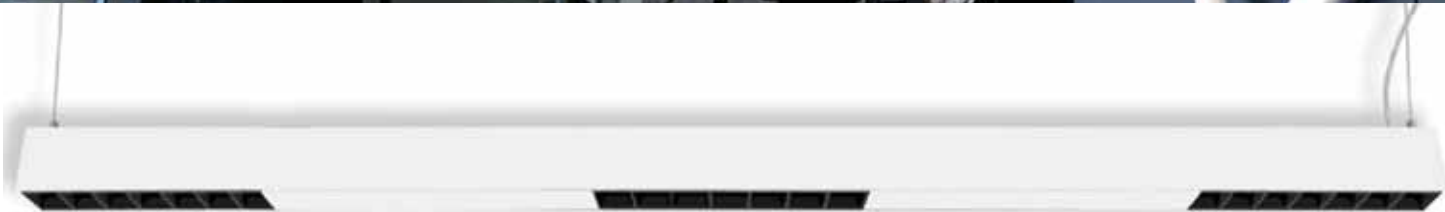
Upon request:
natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze

Liset 2.0 - suspension - direct/indirect light - comfort optics - UGR<19

		CLD (ON-OFF)			LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI
LED 35 lenses	white	1415	4,20	22302113-00	37	4000K - 5177lm - CRI 80
	black			22302133-00		
		CLD D-DIG (DALI)				
LED 35 lenses	white	1415	4,20	22302113-1241	37	4000K - 5177lm - CRI 80
	black			22302133-1241		

- Sur demande :
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - Pass-through wiring for continuous line mounting with subcode **-0072**
 - PUSH-DIMM version with sub-code **-1245**
 - 76° beam version

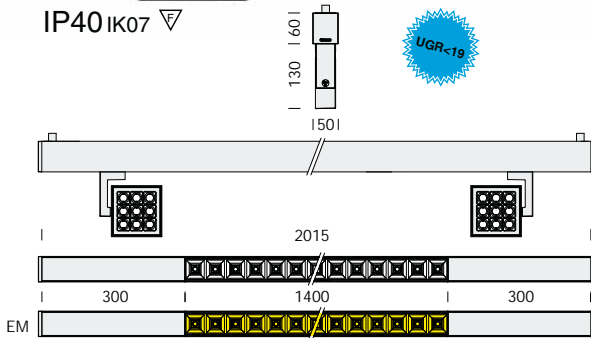
Upon request:
natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze



Liset 2.0 - C+H+3M - suspension - UGR<19						
		CLD (ON-OFF)				LUMEN OUTPUT (tq= 25 °C)
LED	housing	L (mm)	weight	code	W tot	K - ølm - CRI - degrees
LED	white	2015	4,60	22302512-00	27	4000K - 3x1243lm - CRI 80 - 65°
	black			22302532-00		
		CLD D-DIG (DALI)				
LED	white	2015	4,60	22302512-1241	27	4000K - 3x1243lm - CRI 80 - 65°
	black			22302532-1241		

Standard composition: 3 modules with 65° black comfort optics (upon request with 76° beam angle).

- Upon request:
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - PUSH-DIMM version with sub-code **-1245**
 - 1h EM version with subcode **-09**
 - 3h EM version with subcode **-31**
 - RADAR SENSOR with sub-code **-19**



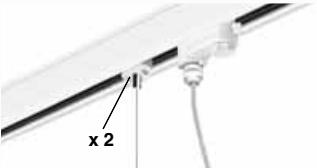
Standard composition: Liset 2.0 with 65° black comfort optics + 2 modules with 38° spotlight (upon request with 76° comfort optics + 32° or 50° spotlights). Standard version includes double switching.

- Upon request:
- **CRI 90** - 4000K
 - 3000K version with sub-code **-39**
 - PUSH-DIMM version with sub-code **-1245**
 - 1h EM version with subcode **-09**
 - 3h EM version with subcode **-31**

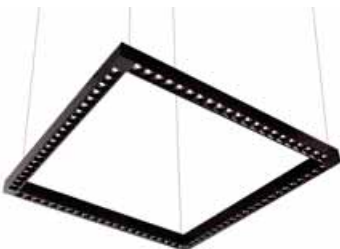
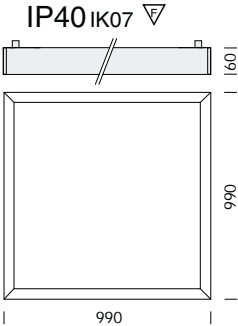
Liset 2.0 - C+M+2S - suspension - UGR<19 - CRI 90						
LED	housing	CLD (ON-OFF)			W tot	LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight	code		K - ølm - CRI - degrees
LED	white	2015	6,50	22302513-00	96	4000K - 4561lm - CRI 80 - 65°
	black			22302533-00		4000K - 2x2415lm - CRI 90 - 38°
LED	white	2015	6,50	22302513-1241	96	4000K - 4561lm - CRI 80 - 65°
	black			22302533-1241		4000K - 2x2415lm - CRI 90 - 38°



Suspension attachment for track	
black	22091432-00
white	22091412-00
Supplied with steel wire, mechanical adapter (2 per pack), power adapter with power cord.	







Liset 2.0 Ring - C 4D

		CLD (ON-OFF)		LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot
LED	white	990	8,50	22302710-00	46
	black			22302730-00	
LED	white		8,50	22302710-39	46
	black			22302730-39	

Diffuser: in polycarbonate.

Liset 2.0 Ring - C 2D+2M

		CLD (ON-OFF)		LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot
LED	white	990	10,00	22302810-00	51
	black			22302830-00	
LED	white		10,00	22302810-39	51
	black			22302830-39	

Diffuser: in polycarbonate.
Comfort optics: in black anti-glare polycarbonate (white colour version is available upon request).

Liset 2.0 Ring - C 4M

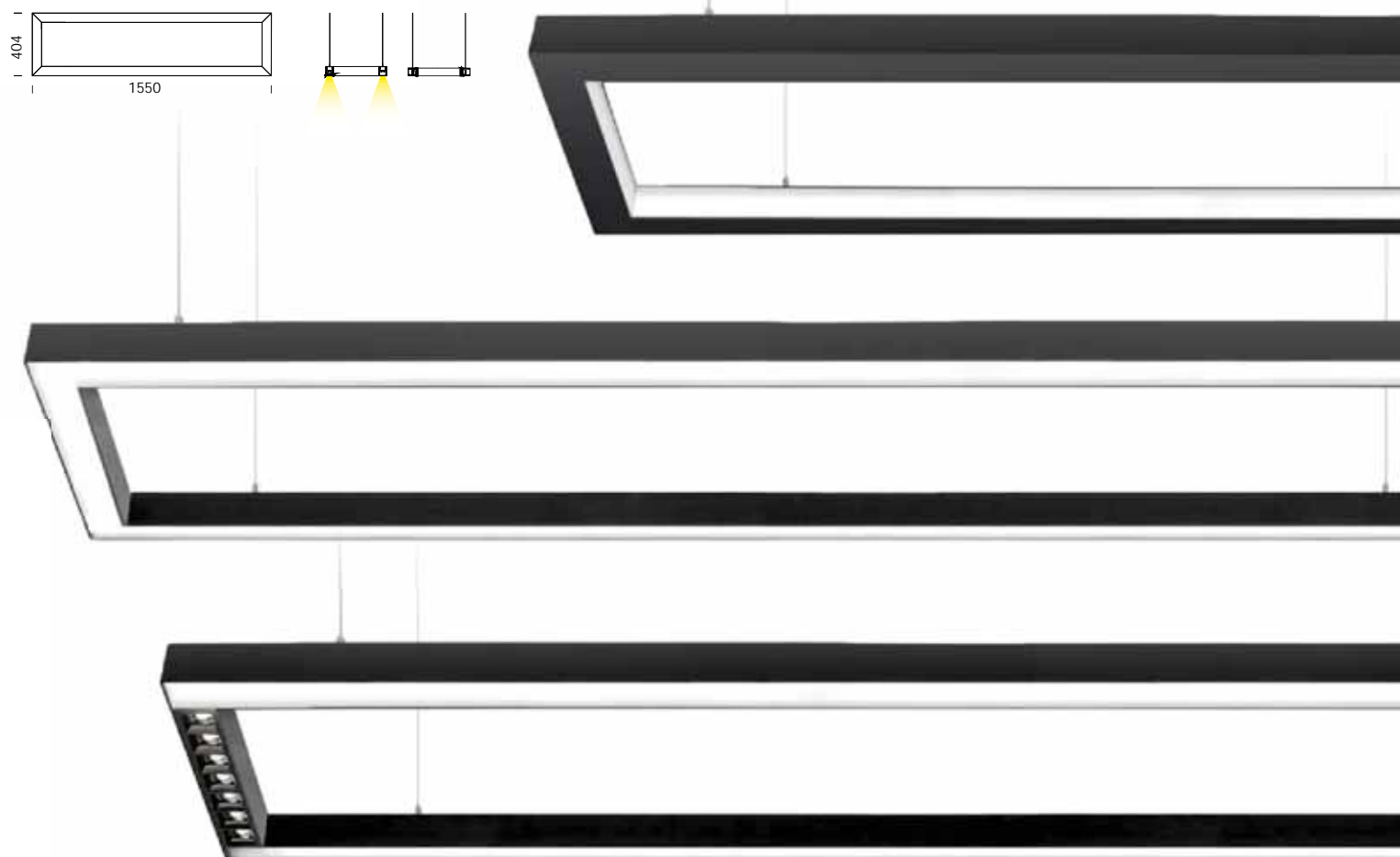
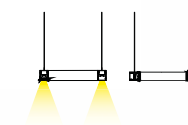
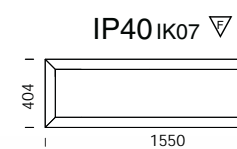
		CLD (ON-OFF)		LUMEN OUTPUT (tq= 25 °C)	
LED	housing	L (mm)	weight	code	W tot
LED	white	990	11,50	22302910-00	55
	black			22302930-00	
LED	white		11,50	22302910-39	55
	black			22302930-39	

Comfort optics: in black anti-glare polycarbonate (white colour version is available upon request).

- Upon request:
- CRI 90 - 3000K and 4000K
 - DIMM-DALI version with sub-code -1241 (4000K) or -3941 (3000K).
 - PUSH-DIMM version with sub-code -1245 (4000K) or -3945 (3000K)
 - 1h EM version with subcode -09 (4000K) or -0928 (3000K)
 - 3h EM version with subcode -31 (4000K) or -3957 (3000K)

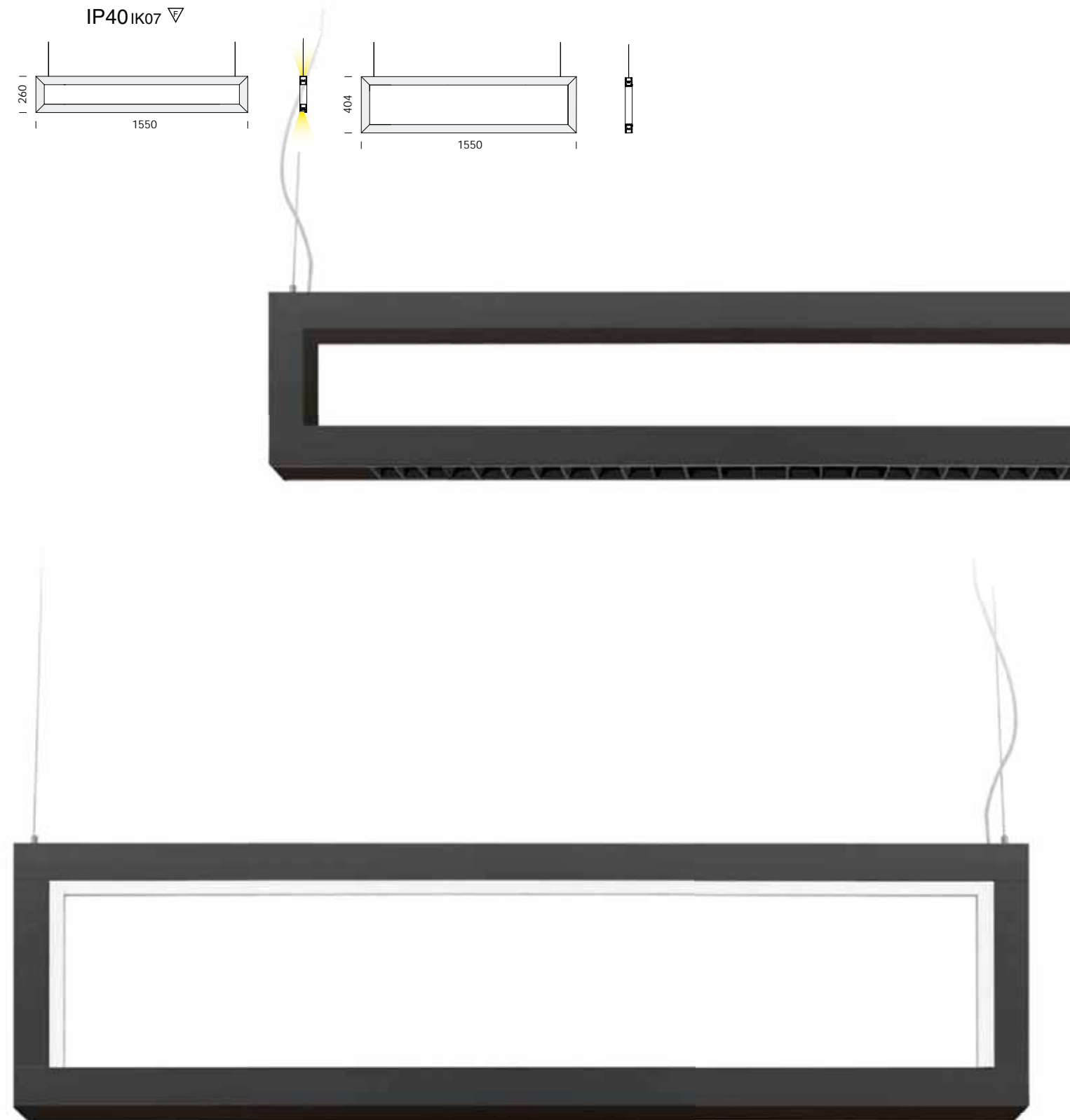
Upon request:
natural light wood, natural dark wood
smooth: silver, anodic ice, golden beach, bronze
The product offers the possibility to choose the correct drive current for LEDs and have the right power and the luminous flux under specific design conditions.

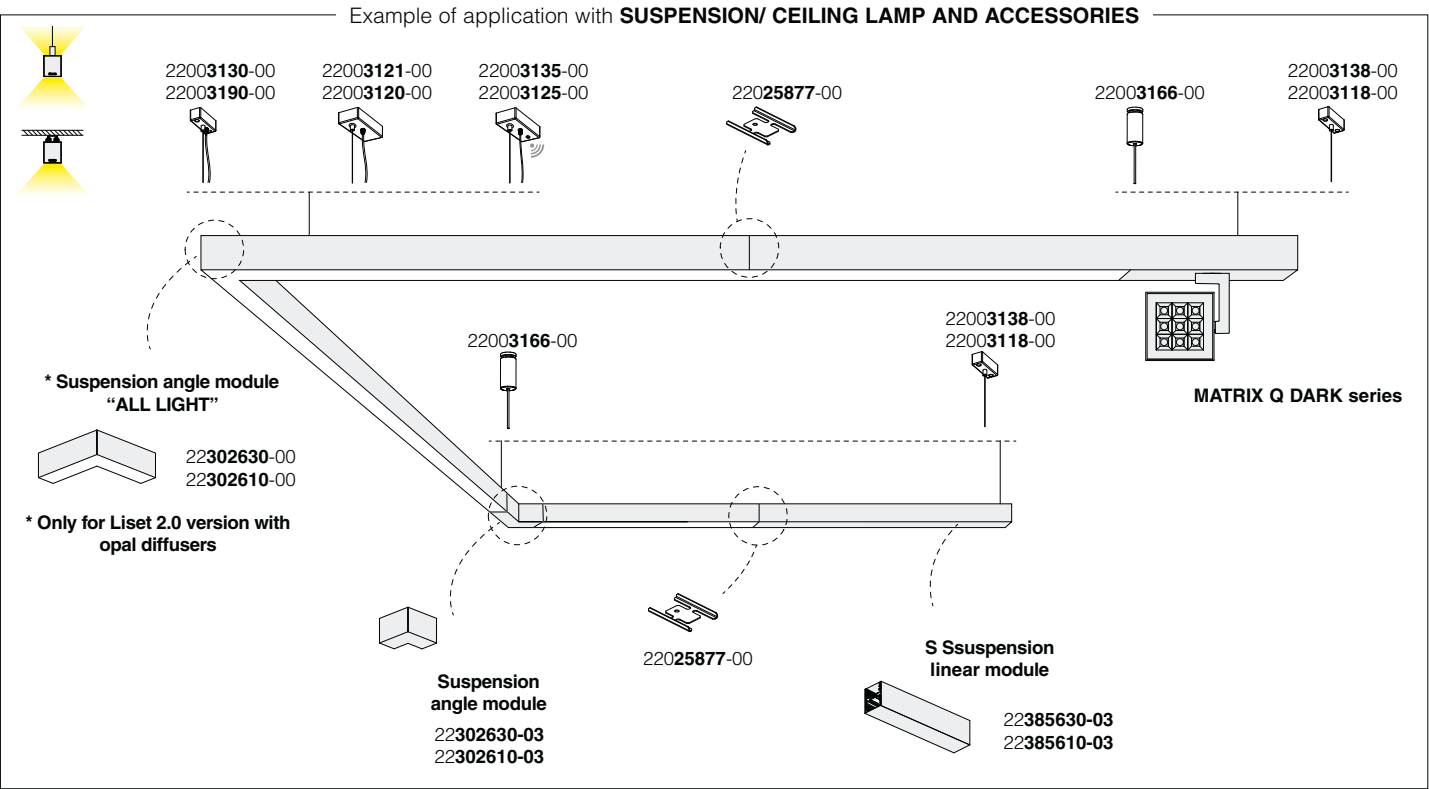
Other size Upon request





Liset 2.0 - special 'light blade' compositions



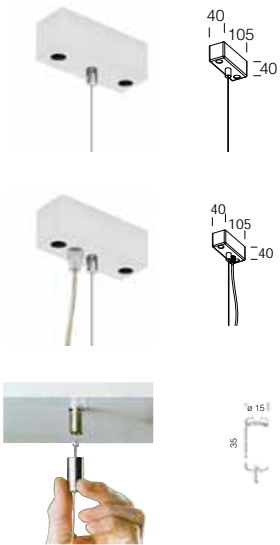


Suspension with wire	
black	22003138-00
white	22003118-00
Complete with steel wire (L = 100cm) and millimetre adjustment device. Max load: 20 kg.	

Powered suspension with wire	
black	22003130-00
white	22003190-00
Supplied with steel wire (L = 100cm) and millimetre adjustment device and power cord. Max loading: 20Kg.	

Suspension	
galvanised	22003166-00
Supplied with steel wire (L=1,75m) and millimetre adjustment device. Max load: 20 kg.	

* Suspension angle module "ALL LIGHT"		
black	22302630-00	14W
white	22302610-00	14W
It permits angle connection of Liset 2.0.		
Upon request: DIMM DALI (-1241).		
Kg= 1,1.		
Only for Liset 2.0 version with opal diffusers.		



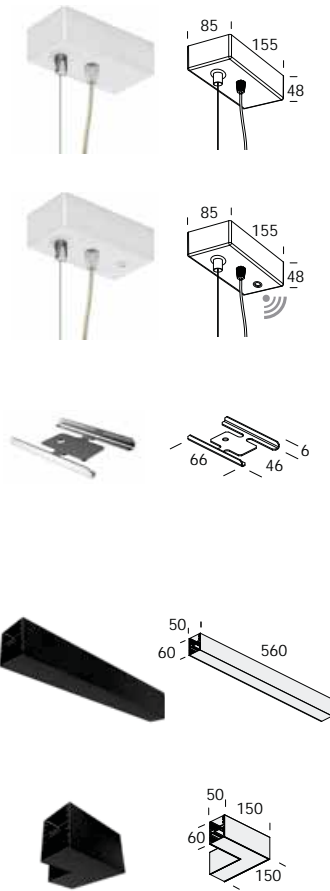
5P Powered suspension	
black	22003121-00
white	22003120-00
Supplied with steel wire (L = 100cm) and power cord. Max loading: 20Kg. For electric gear in EM and DIMM DALI versions.	

5P WIRELESS Powered suspension	
black	22003135-00
white	22003125-00
Supplied with steel wire (L = 100cm) and power cord. Max loading: 20Kg. For the WIRELESS management of DIMM DALI versions (Out DALI : Max 7mA).	

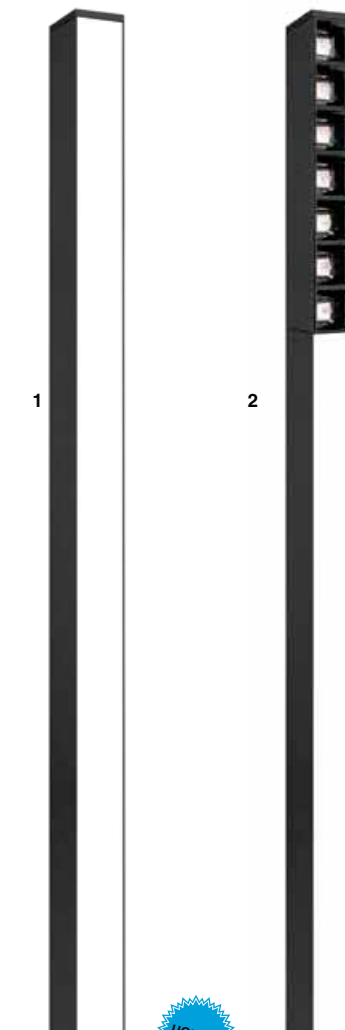
Connecting bracket	
22025877-00	
It permits mechanical connection of the profiles.	

S suspension linear module	
black	22385630-03
white	22385610-03
It permits linear connection of Liset 2.0.	

S suspension angle module	
black	22302630-03
white	22302610-03
It permits angle connection of Liset 2.0.	

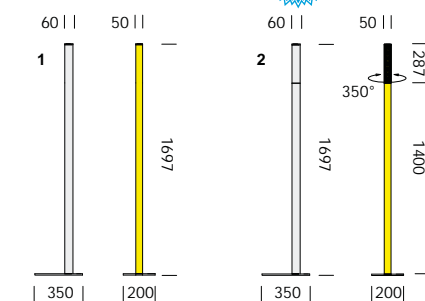






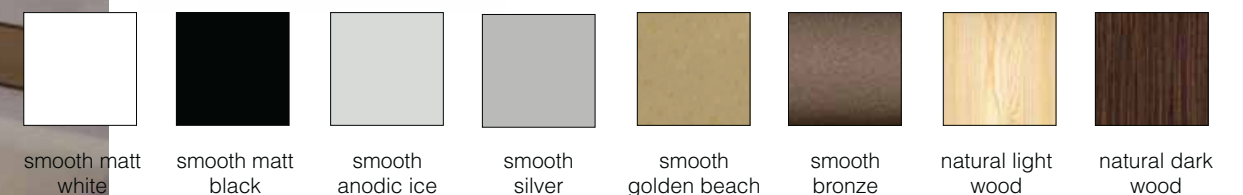
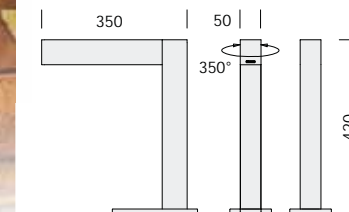
Liset 2.0 floor lamp (or upon request in **DALI, Tunable White-HCL**, with **CASAMBI** automation lighting control system and integrated light / presence sensor versions) is a small-sized lighting fixture that can create amazing and elegant light effects by correctly managing the luminous intensity of the lights. This version of the standard lamp is particularly versatile thanks to the possibility to choose from different combinations of power and fluxes and between comfort optics and polycarbonate diffuser.

IP40 IK07 ∇



Liset 2.0 table lamp is a lighting fixture that in a single housing system ensures application continuity thanks to a wide range of possible configurations. Best suited for providing accent lighting when light quality needs to be differentiated.

IP40 IK07 ∇

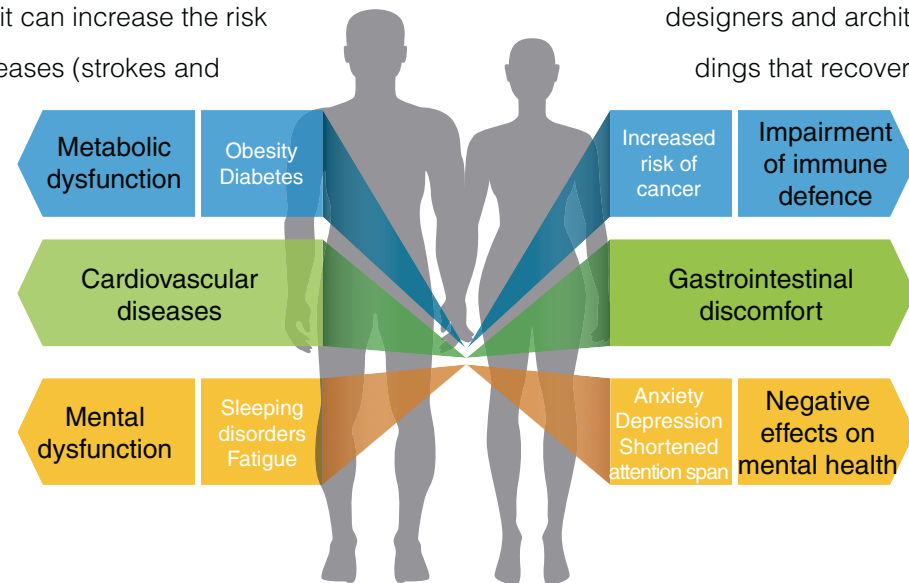


The effects of the circadian rhythm disruption on health

A systematic disruption of our biological clock has negative effects on our health. Numerous studies have shown that the disruption of our sleep-wake cycle provokes fatigue and sleeping disorders. It negatively affects our mood and psychological wellbeing, and may cause anxiety or depression, as well as gastrointestinal discomfort. Moreover, if prolonged over time, it can increase the risk of cardiovascular diseases (strokes and heart attacks) and metabolic dysfunctions (such as obesity and diabetes). Lastly, it can weaken the immune system favouring the outburst of some cancers.

According to research, it is important that our body receives signals like daylight and its variation throughout the day. Yet, we spend most of our time, whether at work or at home, in closed and artificially illuminated spaces. So what can we do?

We can get a greater amount of daylight inside. This is why designers and architects are making buildings that recover as much as possible the relationship with the outside world. And a great help is given by the technological evolution of artificial lighting, including Human Centric Lighting.



in the workplace

Work facilitation
Positive mood, increased productivity, greater corporate image
Compliance with regulations e personnel protection
Space modulation and customizable multipurpose workstations
Positive effects on the human body and energy savings



healthcare facilities

Facilitation of concentration
Improvement of psychophysical well-being
Decreased fatigue at the end of the work shift
Improvement of rest despite work shifts
The hospital's image is improved



in learning institutions

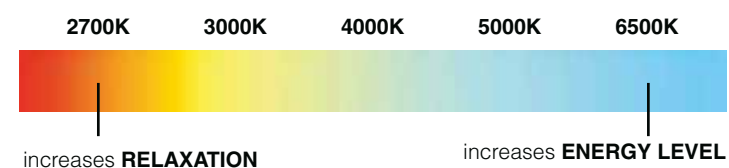
Facilitates concentration in the class and increases school performance
Increases attention and promotes correct behaviour
Improves communication, facilitates communication relationship
Improves attention and generates positive mood
Positive effects on the human body and energy savings



LEDs emit light in the blue wave-length range, affecting the secretion of melatonin, which in turn influences our biological clock and alters our sleep-wake cycle. Therefore, using artificial light that mimics the spectrum of natural light, like the Tunable White LEDs, is fundamental.

Tunable White LED

Enables the shade of light to be changed manually throughout the day (no circadian rhythm). It is a latest generation LED technology that allows adjusting colour temperatures from **2700K to 6500K**, from a **warm light** to a **cold light**. LED Tunable White LED modules for HCL applications contain two adjacent diodes that emit light at 2700K and 6500K, as well as intermediate colours by mixing colour temperatures.

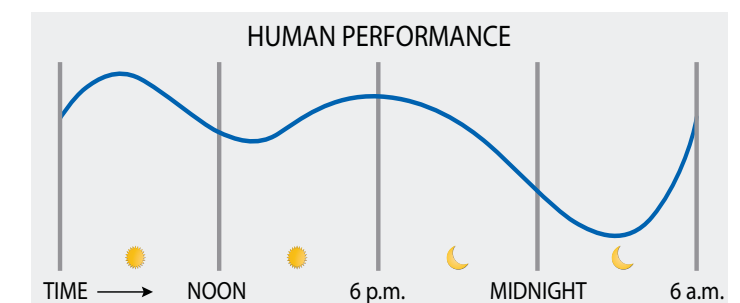


Researchers have demonstrated that our brain is stimulated:
- by the **warm light** of morning and evening hours (2700K) increasing our sense of relaxation;
- by the **cold light** of daylight (6500 K) making us feel more energetic and concentrated.

The mission of **Human Centric Lighting** is to create a balance between natural outside light and artificial inside light. Below are some examples showing why it is important to choose HCL in our environments.

Human Centric Lighting:

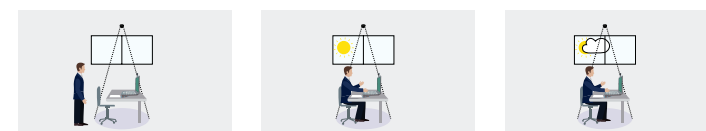
Simulation of daylight changes: colour of light changes automatically based on the time of the day and daylight.



The Dynamic White function allows adjusting the colour temperature from 2700K to 6500K to create a sense of the passing of time (circadian rhythm) and to set the mood and ambiance of a space according to our daily activities. Circadian lighting obtained with the Dynamic White function is the best solution to implement Human Centric Lighting in classrooms, university campuses, offices and hospitals where lights can mimic the natural trend of daylight throughout the entire day.

Presence and light sensors for HCL applications

1. Immediate detection of anyone entering within its range.
2. Adjustment of lights based on daylight
3. Constant measurement of the environment's lighting level.



In addition to the Tunable Light technology, the fixtures can be equipped with presence and lighting sensors that allow adjusting artificial lighting, while keeping the lumen value set according to the room's occupancy and the contribution of natural light. The built-in sensor measures constantly the luminosity value in the environment and compares it with the value set in the presence detector.

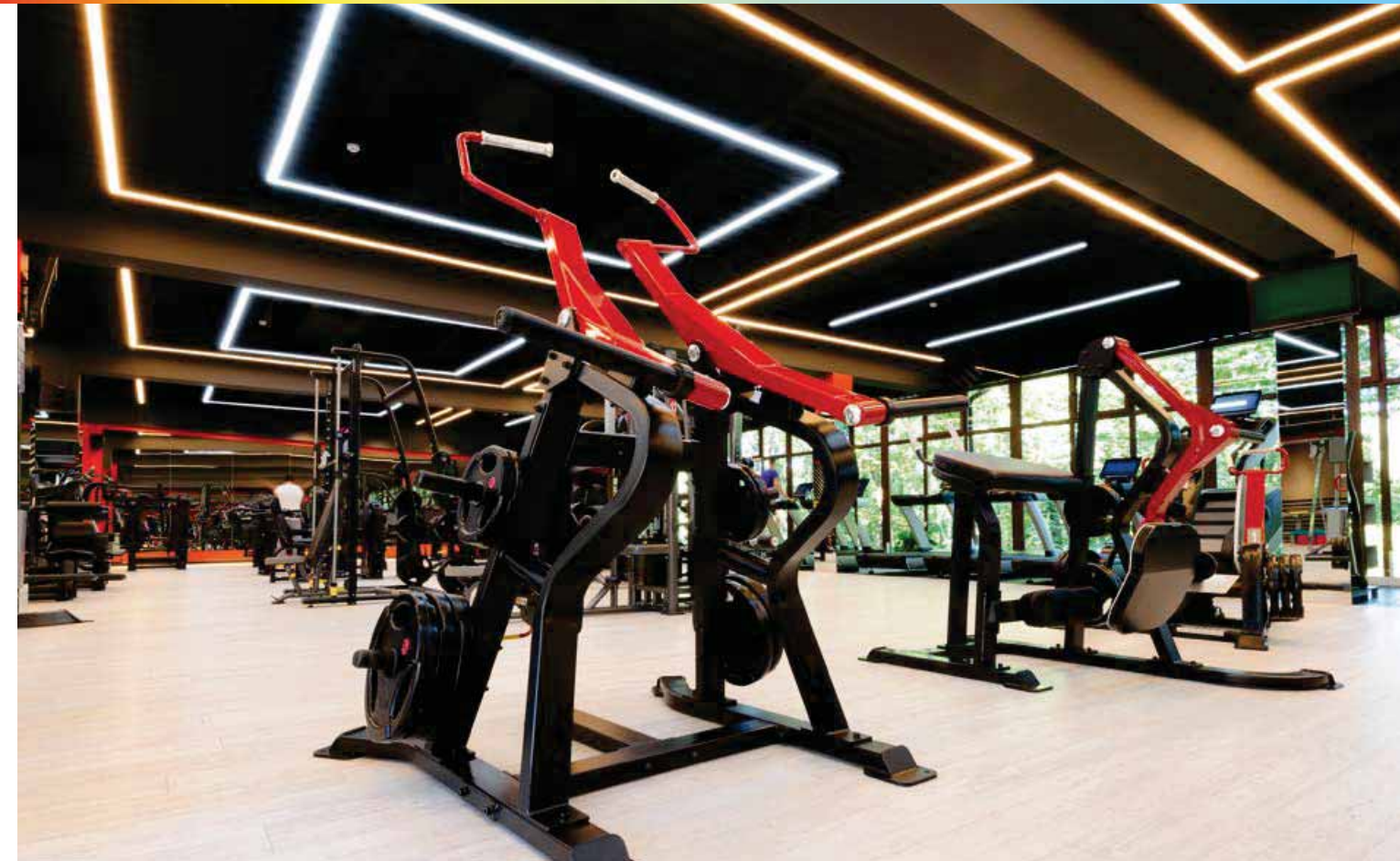
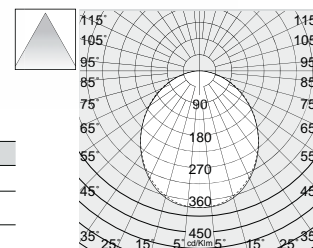
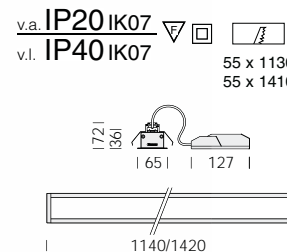


Upon request: version with black housing

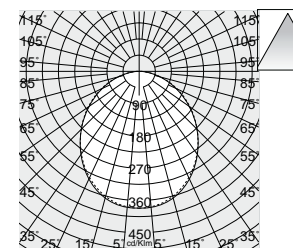
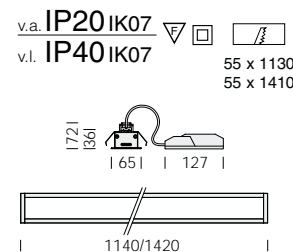


Liset 2.0 **TW** - recessed - with polycarbonate diffuser - **CRI 90**

LED	housing	CLD D-DIG (DALI)			W tot	LUMEN OUTPUT (tq= 25 °C)	
		L (mm)	weight	code		K - ølm - CRI	
LED 4 modules	white	1140	1,70	22302201-0024	40	2700K÷6500K - 3250÷3220lm	CRI 90
LED 5 modules		1420	2,00	22302202-0024	40	2700K÷6500K - 2984÷3176lm	CRI 90



Upon request: version with black housing



Liset 2.0 **HCL** - recessed - with polycarbonate diffuser - **CRI 90**

LED	housing	CLD D-DIG (DALI)			W tot	LUMEN OUTPUT (tq= 25 °C)	
		L (mm)	weight	code		K - ølm - CRI	
LED 4 modules	white	1140	1,70	22302201-89	38	2700K÷6500K - 3250÷3220lm	CRI 90
LED 5 modules		1420	2,00	22302202-89	46	2700K÷6500K - 2984÷3176lm	CRI 90

TECHNICAL CHARACTERISTICS - TW BASIC VERSION

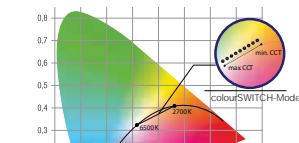
colourSWITCH function

A conventional pushbutton can be used to control the system via colourSWITCH. Use of pushbutton with indicator lamp is not permitted. If the device is controlled via DALI/DSI, colourSWITCH is not available. For control via a pushbutton different settings can be made:

- Short press: setting the colour temperature via colourSWITCH mode with 9 values between 2,700 and 6,500 K.
- Long press (> 1 s): stepless setting of colour temperature. After completion the colour temperature direction will be inverted. In installations with LED Drivers with different colour temperature or opposite colour temperature directions (e.g. after a system extension), all LED Drivers can be synchronized to 4,500 K by a 10 s push.

switchDIM function

Integrated switchDIM function allows a direct connection of a pushbutton for dimming and switching. Brief push (< 0.6 s) switches LED Driver ON and OFF. The dim level is saved at power-down and restored at power-up. When the pushbutton is held, LED modules are dimmed. After releasing and pushing the LED modules are dimmed in the opposite direction. In installations with LED Drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED Drivers can be synchronized to 50 % dimming level by a 10 s push. Use of pushbutton with indicator lamp is not permitted.

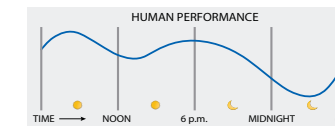


- Colour temperature adjustment range from 2700K to 6500K on a linear scale
- MacAdams 3
- Full 3% to 100% dimming range
- ≤4% flicker
- Constant colour temperature over the entire dimming range
- Constant luminous flux

TECHNICAL CHARACTERISTICS - HCL WIRELESS VERSION



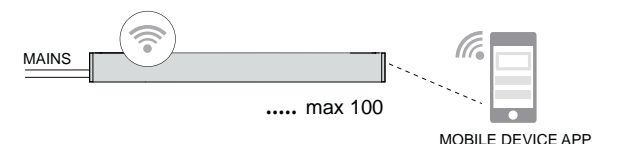
- Colour temperature adjustment range from 2700K to 6500K on a linear scale
- Full 3% to 100% dimming range
- Switch-off fading
- <4% flicker
- Constant colour temperature over the entire dimming range
- LED driver that automatically adjusts lights to the desired colour temperature and the required luminous flux



The Dynamic White function allows adjusting the colour temperature from 2700K to 6500K to create a sense of the passing of time (circadian rhythm) and to set the mood and ambiance of a space according to our daily activities. Circadian lighting obtained with the Dynamic White function is the best solution to implement Human Centric Lighting (HCL) in classrooms, university campuses, offices and hospitals where lights can mimic the natural trend of daylight throughout the entire day.

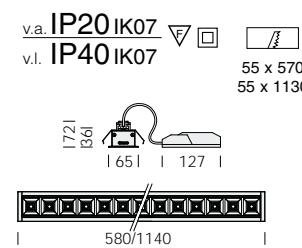
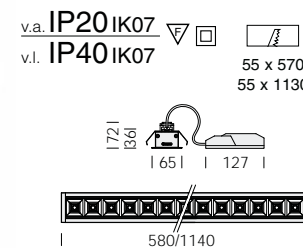
HCL WIRELESS INSTALLATION EXAMPLE (POINT-TO-POINT)

The standard version of the fixture comes with a wireless driver. Liset 2.0 can be easily controlled from a smartphone/tablet via a **free app**.



..... max 100

MOBILE DEVICE APP

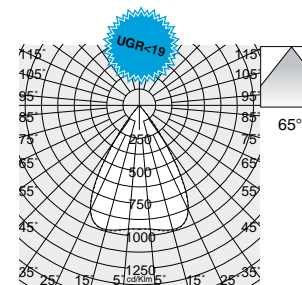
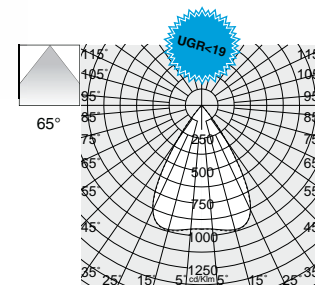


Liset 2.0 **TW** - recessed - comfort optics - **UGR<19**

LED	housing	CLD CELLD-D (DALI)			W tot	LUMEN OUTPUT (tq= 25 °C)	
		L (mm)	weight	code		K - ølm - CRI - degrees	
LED 14 lenses	white	580	1,10	22302101-0024	16	2700K÷6500K - 2092lm - CRI 80 - 65°	
LED 28 lenses		1140	2,20	22302102-0024	29	2700K÷6500K - 3603lm - CRI 80 - 65°	

Upon request:

- black colour housing version
- 76° beam version



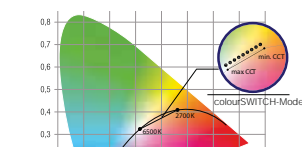
Liset 2.0 **HCL** - recessed - comfort optics - **UGR<19**

LED	housing	CLD CELLD-D (DALI)			W tot	LUMEN OUTPUT (tq= 25 °C)	
		L (mm)	weight	code		K - ølm - CRI - gradi	
LED 14 lenses	white	580	1,10	22302101-89	16	2700K÷6500K - 2092lm - CRI 80 - 65°	
LED 28 lenses		1140	2,20	22302102-89	29	2700K÷6500K - 3603lm - CRI 80 - 65°	

Upon request:

- black colour housing version
- 76° beam version

TECHNICAL CHARACTERISTICS - TW BASIC VERSION



- Colour temperature adjustment range from 2700K to 6500K on a linear scale
- MacAdams 3
- Full 3% to 100% dimming range
- ≤4% flicker
- Constant colour temperature over the entire dimming range
- Constant luminous flux

colourSWITCH function

A conventional pushbutton can be used to control the system via colourSWITCH. Use of pushbutton with indicator lamp is not permitted. If the device is controlled via DALI/DSI, colourSWITCH is not available. For control via a pushbutton different settings can be made:

- Short press: setting the colour temperature via colourSWITCH mode with 9 values between 2,700 and 6,500 K.
- Long press (> 1 s): stepless setting of colour temperature. After completion the colour temperature direction will be inverted. In installations with LED Drivers with different colour temperature or opposite colour temperature directions (e.g. after a system extension), all LED Drivers can be synchronized to 4,500 K by a 10 s push.

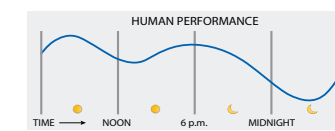
switchDIM function

Integrated switchDIM function allows a direct connection of a pushbutton for dimming and switching. Brief push (< 0.6 s) switches LED Driver ON and OFF. The dim level is saved at power-down and restored at power-up. When the pushbutton is held, LED modules are dimmed. After releasing and pushing the LED modules are dimmed in the opposite direction. In installations with LED Drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED Drivers can be synchronized to 50 % dimming level by a 10 s push. Use of pushbutton with indicator lamp is not permitted.

TECHNICAL CHARACTERISTICS - HCL WIRELESS VERSION



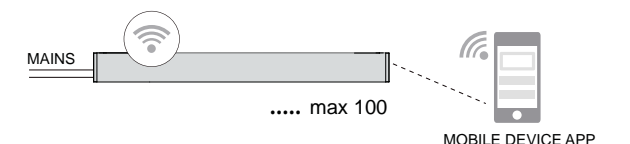
- Colour temperature adjustment range from 2700K to 6500K on a linear scale
- Full 3% to 100% dimming range
- Switch-off fading
- <4% flicker
- Constant colour temperature over the entire dimming range
- LED driver that automatically adjusts lights to the desired colour temperature and the required luminous flux




The Dynamic White function allows adjusting the colour temperature from 2700K to 6500K to create a sense of the passing of time (circadian rhythm) and to set the mood and ambiance of a space according to our daily activities. Circadian lighting obtained with the Dynamic White function is the best solution to implement Human Centric Lighting (HCL) in classrooms, university campuses, offices and hospitals where lights can mimic the natural trend of daylight throughout the entire day.

HCL WIRELESS INSTALLATION EXAMPLE (POINT-TO-POINT)

The standard version of the fixture comes with a wireless driver. Liset 2.0 can be easily controlled from a smartphone/tablet via a **free app**.

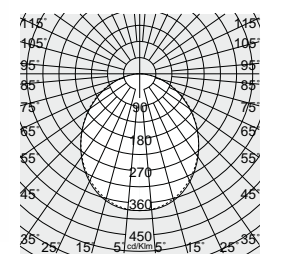







IP40 IK07
160 l
150 l
1135/1415

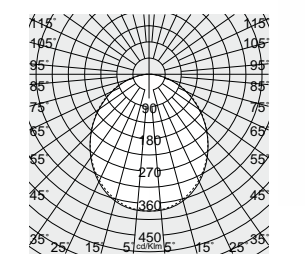
Liset 2.0 TW - ceiling - with polycarbonate diffuser - CRI 90					
LED	housing	CLD D-DIG (DALI)		W tot	LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight		K - ølm - CRI
LED 4 modules	white	1135	2,50	40	2700K÷6500K - 2899÷3357lm - CRI 90
	black				
LED 5 modules	white	1415	3,00	40	2700K÷6500K - 3044÷3524lm - CRI 90
	black				

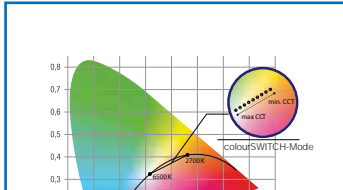




IP40 IK07
160 l
150 l
1135/1415

Liset 2.0 HCL - ceiling - with polycarbonate diffuser - CRI 90					
LED	housing	CLD D-DIG (DALI)		W tot	LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight		K - ølm - CRI
LED 4 modules	white	1135	2,50	38	2700K÷6500K - 2899÷3357lm - CRI 90
	black				
LED 5 modules	white	1415	3,00	46	2700K÷6500K - 3044÷3524lm - CRI 90
	black				





- Colour temperature adjustment range from 2700K to 6500K on a linear scale
- MacAdams 3
- Full 3% to 100% dimming range
- ≤4% flicker
- Constant colour temperature over the entire dimming range
- Constant luminous flux

TECHNICAL CHARACTERISTICS - TW BASIC VERSION

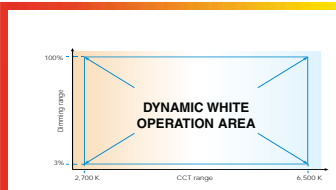
colourSWITCH function

A conventional pushbutton can be used to control the system via colourSWITCH. Use of pushbutton with indicator lamp is not permitted. If the device is controlled via DALI/DSI, colourSWITCH is not available. For control via a pushbutton different settings can be made:

- Short press: setting the colour temperature via colourSWITCH mode with 9 values between 2,700 and 6,500 K.
- Long press (> 1 s): stepless setting of colour temperature. After completion the colour temperature direction will be inverted. In installations with LED Drivers with different colour temperature or opposite colour temperature directions (e.g. after a system extension), all LED Drivers can be synchronized to 4,500 K by a 10 s push.

switchDIM function

Integrated switchDIM function allows a direct connection of a pushbutton for dimming and switching. Brief push (< 0.6 s) switches LED Driver ON and OFF. The dim level is saved at power-down and restored at power-up. When the pushbutton is held, LED modules are dimmed. After releasing and pushing the LED modules are dimmed in the opposite direction. In installations with LED Drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED Drivers can be synchronized to 50 % dimming level by a 10 s push. Use of pushbutton with indicator lamp is not permitted.



- Colour temperature adjustment range from 2700K to 6500K on a linear scale
- Full 3% to 100% dimming range
- Switch-off fading
- <4% flicker
- Constant colour temperature over the entire dimming range
- LED driver that automatically adjusts lights to the desired colour temperature and the required luminous flux

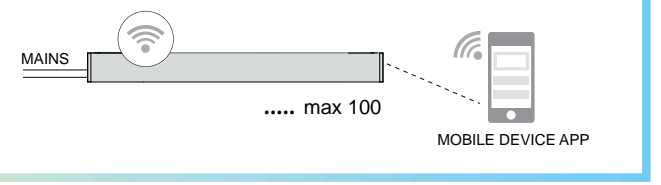
TECHNICAL CHARACTERISTICS - HCL WIRELESS VERSION

HUMAN PERFORMANCE


The Dynamic White function allows adjusting the colour temperature from 2700K to 6500K to create a sense of the passing of time (circadian rhythm) and to set the mood and ambiance of a space according to our daily activities. Circadian lighting obtained with the Dynamic White function is the best solution to implement Human Centric Lighting (HCL) in classrooms, university campuses, offices and hospitals where lights can mimic the natural trend of daylight throughout the entire day.

HCL WIRELESS INSTALLATION EXAMPLE (POINT-TO-POINT)

The standard version of the fixture comes with a wireless driver. Liset 2.0 can be easily controlled from a smartphone/tablet via a **free app**.

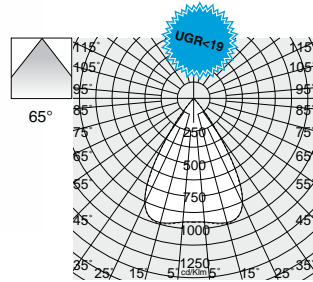







Liset 2.0 TW - ceiling - comfort optics - UGR<19

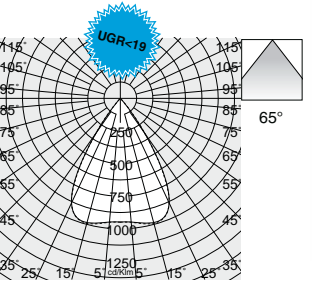
LED	housing	CLD CELLD-D (DALI)			W tot	LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight	code		K - ølm - CRI - degrees
LED 14 lenses	white	655	1,60	22302104-0024	16	2700K÷6500K - 1948lm - CRI 80 - 65°
	black			22302134-0024		
LED 28 lenses	white	1135	3,20	22302105-0024	29	2700K÷6500K - 3375lm - CRI 80 - 65°
	black			22302135-0024		

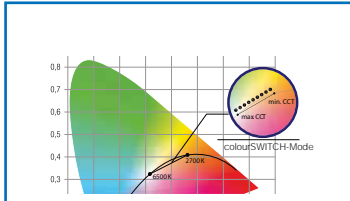




Liset 2.0 HCL - ceiling - comfort optics - UGR<19

LED	housing	CLD CELLD-D (DALI)			W tot	LUMEN OUTPUT (tq= 25 °C)
		L (mm)	weight	code		K - ølm - CRI - degrees
LED 14 lenses	white	655	1,60	22302104-89	16	2700K÷6500K - 1948lm - CRI 80 - 65°
	black			22302134-89		
LED 28 lenses	white	1135	3,20	22302105-89	29	2700K÷6500K - 3375lm - CRI 80 - 65°
	black			22302135-89		



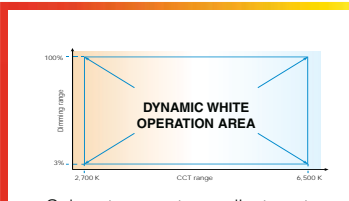


TECHNICAL CHARACTERISTICS - TW BASIC VERSION

colourSWITCH function
A conventional pushbutton can be used to control the system via colourSWITCH. Use of pushbutton with indicator lamp is not permitted. If the device is controlled via DALI/DSI, colourSWITCH is not available. For control via a pushbutton different settings can be made:

- Short press: setting the colour temperature via colourSWITCH mode with 9 values between 2,700 and 6,500 K.
- Long press (> 1 s): stepless setting of colour temperature. After completion the colour temperature direction will be inverted. In installations with LED Drivers with different colour temperature or opposite colour temperature directions (e.g. after a system extension), all LED Drivers can be synchronized to 4,500 K by a 10 s push.

switchDIM function
Integrated switchDIM function allows a direct connection of a pushbutton for dimming and switching. Brief push (< 0.6 s) switches LED Driver ON and OFF. The dim level is saved at power-down and restored at power-up. When the pushbutton is held, LED modules are dimmed. After releasing and pushing the LED modules are dimmed in the opposite direction. In installations with LED Drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED Drivers can be synchronized to 50 % dimming level by a 10 s push. Use of pushbutton with indicator lamp is not permitted.

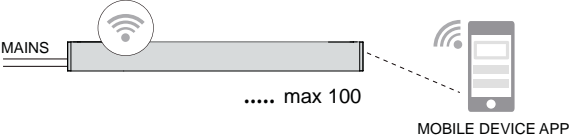


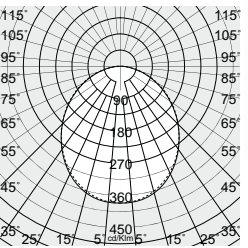
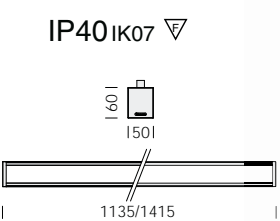
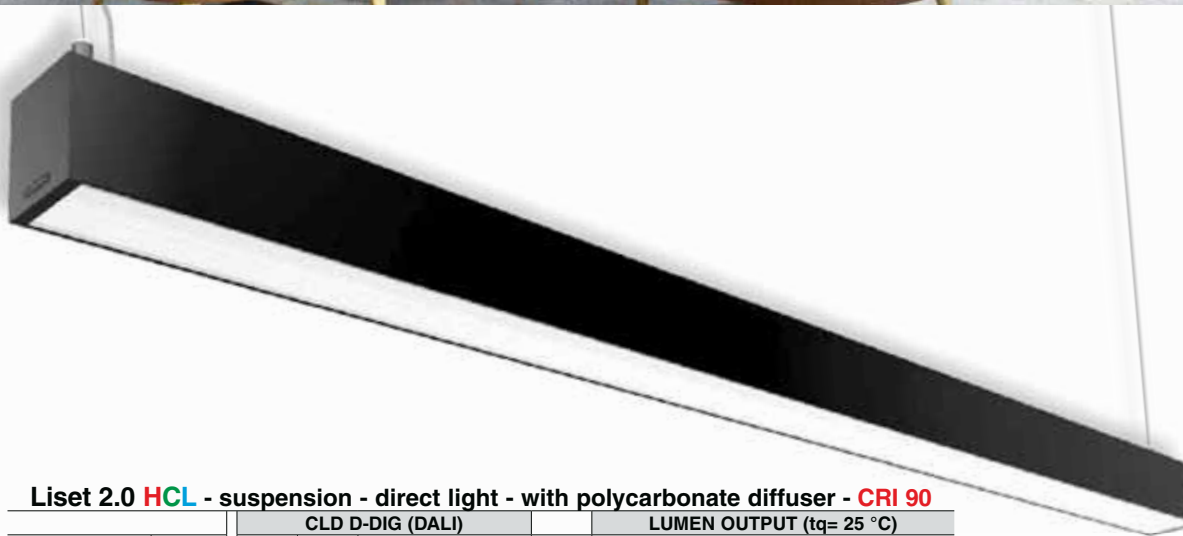
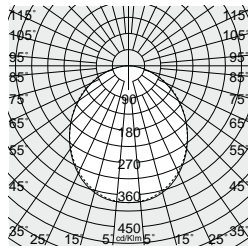
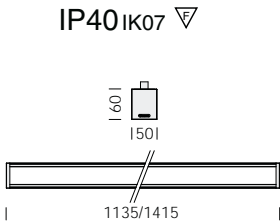
TECHNICAL CHARACTERISTICS - HCL WIRELESS VERSION

HUMAN PERFORMANCE
The Dynamic White function allows adjusting the colour temperature from 2700K to 6500K to create a sense of the passing of time (circadian rhythm) and to set the mood and ambiance of a space according to our daily activities. Circadian lighting obtained with the Dynamic White function is the best solution to implement Human Centric Lighting (HCL) in classrooms, university campuses, offices and hospitals where lights can mimic the natural trend of daylight throughout the entire day.

HCL WIRELESS INSTALLATION EXAMPLE (POINT-TO-POINT)

The standard version of the fixture comes with a wireless driver. Liset 2.0 can be easily controlled from a smartphone/tablet via a **free app**.



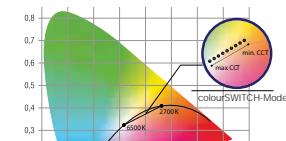


Liset 2.0 **TW** - suspension - direct light - with polycarbonate diffuser - **CRI 90**

LED	housing	CLD D-DIG (DALI)		W tot	LUMEN OUTPUT (tq= 25 °C)	
		L (mm)	weight		code	K - ølm - CRI
LED 4 modules	white	1135	2,50	40	22302208-0024	2700K÷6500K - 2899÷3357lm - CRI 90
	black				22302238-0024	
LED 5 modules	white	1415	3,00	40	22302209-0024	2700K÷6500K - 3044÷3524lm - CRI 90
	black				22302239-0024	

Liset 2.0 **HCL** - suspension - direct light - with polycarbonate diffuser - **CRI 90**

LED	housing	CLD D-DIG (DALI)		W tot	LUMEN OUTPUT (tq= 25 °C)	
		L (mm)	weight		code	K - ølm - CRI
LED 4 modules	white	1135	2,50	40	22302208-89	2700K÷6500K - 2899÷3357lm - CRI 90
	black				22302238-89	
LED 5 modules	white	1415	3,00	40	22302209-89	2700K÷6500K - 3044÷3524lm - CRI 90
	black				22302239-89	



- Colour temperature adjustment range from 2700K to 6500K on a linear scale
- MacAdams 3
- Full 3% to 100% dimming range
- ≤4% flicker
- Constant colour temperature over the entire dimming range
- Constant luminous flux

TECHNICAL CHARACTERISTICS - TW BASIC VERSION

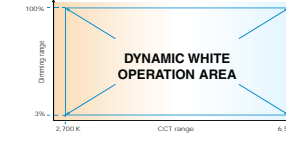
colourSWITCH function

A conventional pushbutton can be used to control the system via colourSWITCH. Use of pushbutton with indicator lamp is not permitted. If the device is controlled via DALI/DSI, colourSWITCH is not available. For control via a pushbutton different settings can be made:

- Short press: setting the colour temperature via colourSWITCH mode with 9 values between 2,700 and 6,500 K.
- Long press (> 1 s): stepless setting of colour temperature. After completion the colour temperature direction will be inverted. In installations with LED Drivers with different colour temperature or opposite colour temperature directions (e.g. after a system extension), all LED Drivers can be synchronized to 4,500 K by a 10 s push.

switchDIM function

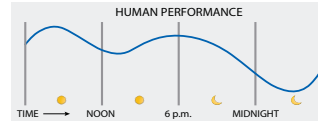
Integrated switchDIM function allows a direct connection of a pushbutton for dimming and switching. Brief push (< 0.6 s) switches LED Driver ON and OFF. The dim level is saved at power-down and restored at power-up. When the pushbutton is held, LED modules are dimmed. After releasing and pushing the LED modules are dimmed in the opposite direction. In installations with LED Drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED Drivers can be synchronized to 50 % dimming level by a 10 s push. Use of pushbutton with indicator lamp is not permitted.



- Colour temperature adjustment range from 2700K to 6500K on a linear scale
- Full 3% to 100% dimming range
- Switch-off fading
- <4% flicker
- Constant colour temperature over the entire dimming range
- LED driver that automatically adjusts lights to the desired colour temperature and the required luminous flux

TECHNICAL CHARACTERISTICS - HCL WIRELESS VERSION

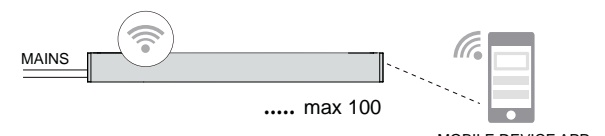
HUMAN PERFORMANCE

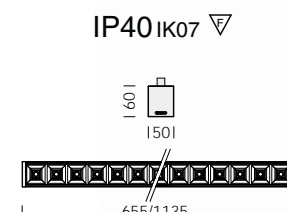
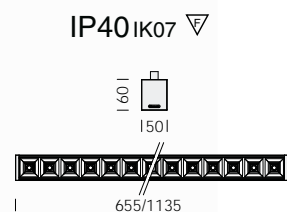


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HCL WIRELESS INSTALLATION EXAMPLE (POINT-TO-POINT)

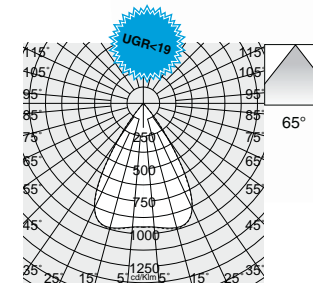
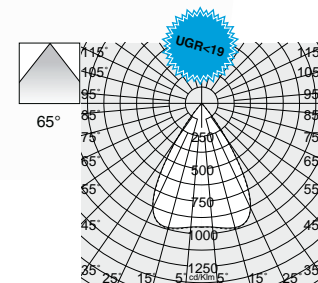
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Liset 2.0 **TW - suspension - direct light - comfort optics - UGR<19**

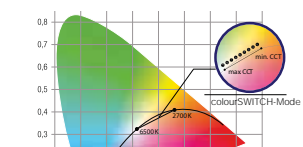
LED	housing	CLD D-DIG (DALI)			W tot	LUMEN OUTPUT (tq= 25 °C)	
		L (mm)	weight	code		K - olm - CRI - degrees	
LED 14 lenses	white	655	1,60	22302110-0024	16	2700K÷6500K - 1948lm - CRI 80 - 65°	
	black			22302130-0024			
LED 28 lenses	white	1135	3,20	22302111-0024	29	2700K÷6500K - 3375lm - CRI 80 - 65°	
	black			22302131-0024			



Liset 2.0 **HCL - suspension - direct light - comfort optics - UGR<19**

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		L (mm)	weight	code		K - olm - CRI - degrees	
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	black			22302130-89			
LED 28 lenses	white	1135	3,20	22302111-89	29	2700K÷6500K - 3375lm - CRI 80 - 65°	
	black			22302131-89			

TECHNICAL CHARACTERISTICS - TW BASIC VERSION



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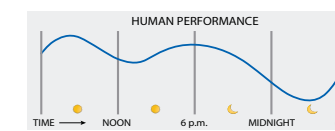
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TECHNICAL CHARACTERISTICS - HCL WIRELESS VERSION



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- Full 3% to 100% dimming range
- Switch-off fading
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- Constant colour temperature over the entire dimming range
- LED driver that automatically adjusts lights to the desired colour temperature and the required luminous flux

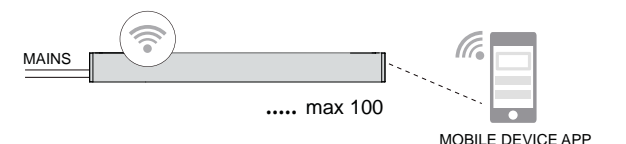


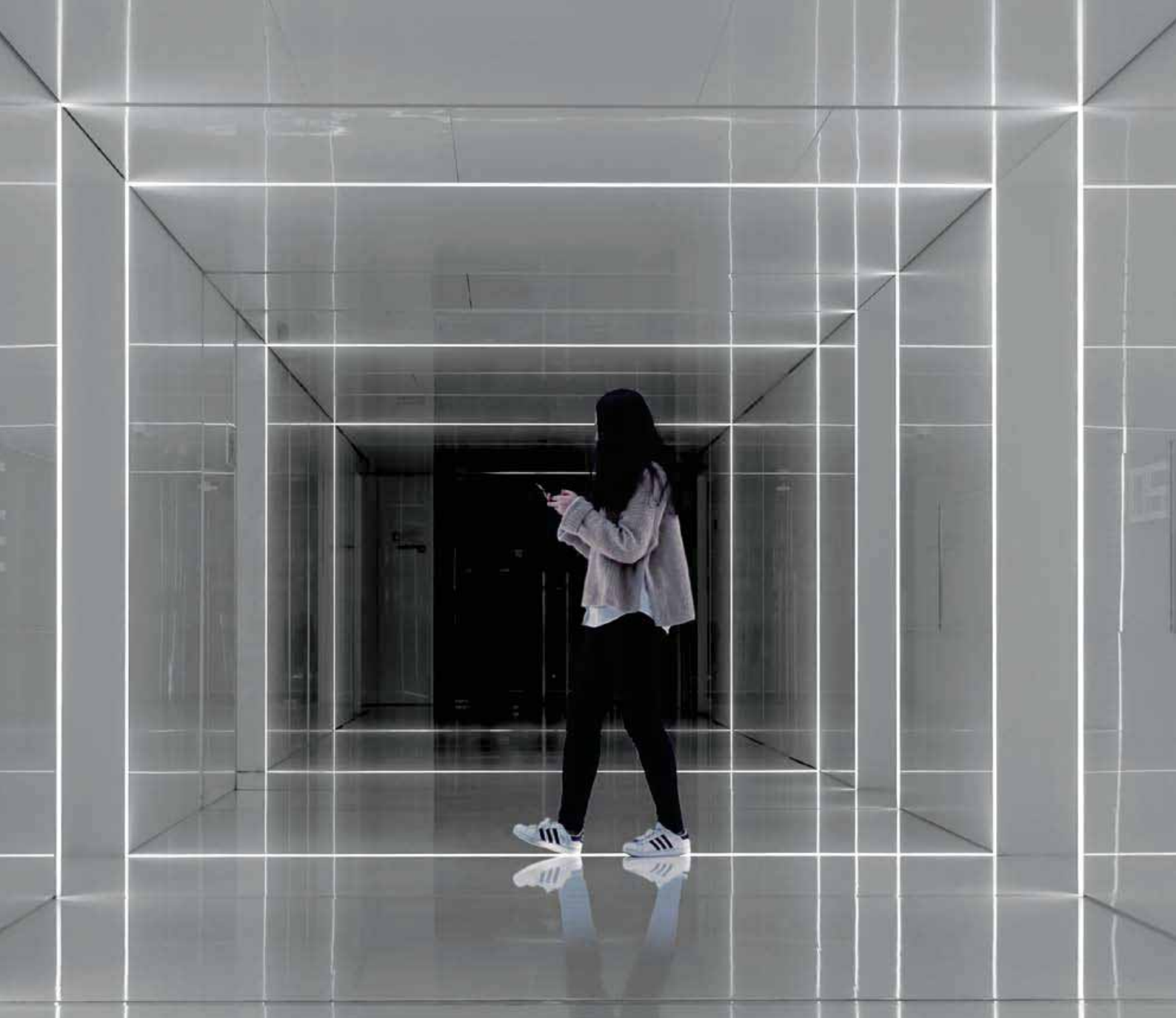
natural trend of daylight throughout the entire day.

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