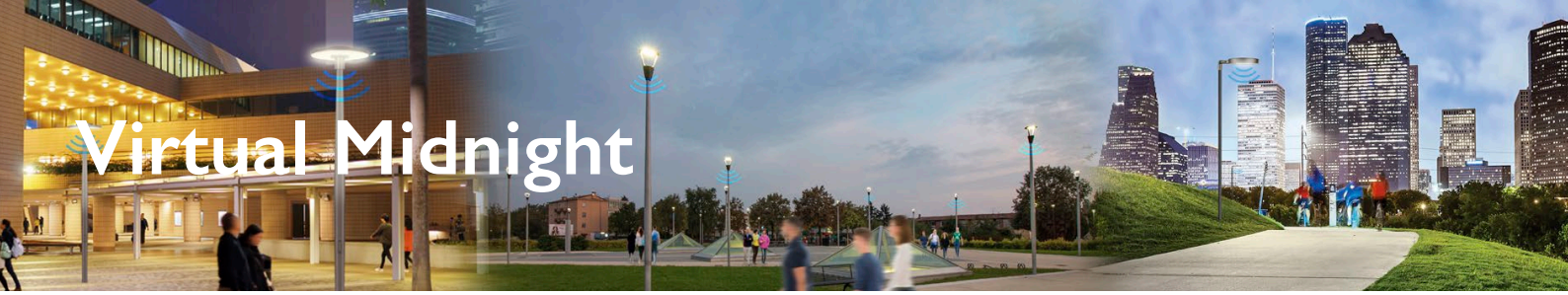
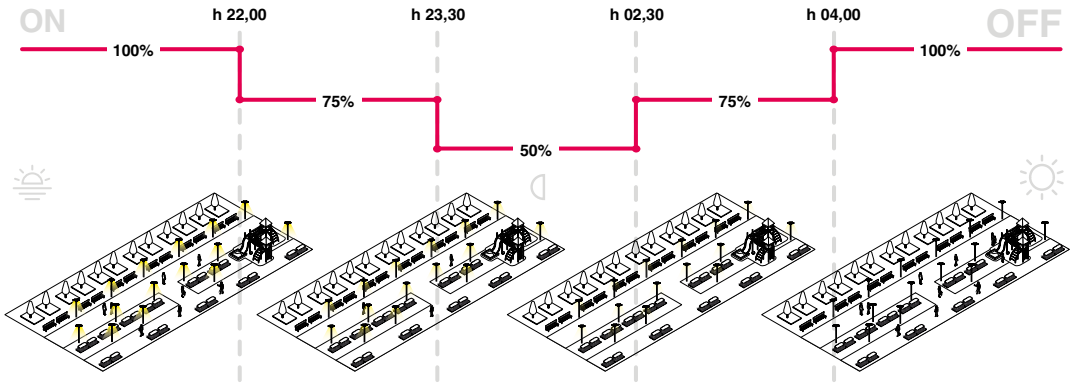


Virtual Midnight

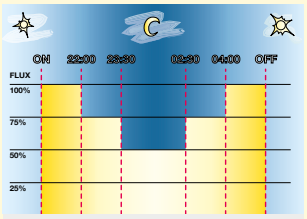
To **INCREASE ENERGY SAVINGS** at night when there are fewer people and vehicles around, a lighting fixture can be programmed according to a specific profile (customizable on request). The fixture reduces its luminous flux through a self-learning process which, depending on the previous switching on and off times, will determine a hypothetical "virtual midnight". This is the average value between the time the fixture is switched on (sunset) and switched off (sunrise). The "virtual midnight" is the reference point for dimming lights according to the desired profile. The device is integrated in the LED driver and therefore does not require any modification to the system.

In order for the system to function correctly, the system must be adjusted by a device that turns the system on and off on a regular basis every day.



For example, in the central hours of the night, in areas where car and pedestrian traffic decreases significantly, a **reduction in luminous flux keeps the light within safety standards, while avoiding waste**. If we multiply this reduction by tens or hundreds of lamps, we get **significant savings**.

Virtual Midnight subcode -30: fixtures are equipped with a device to reduce flux in **4 steps** based on the calculation of the virtual midnight.



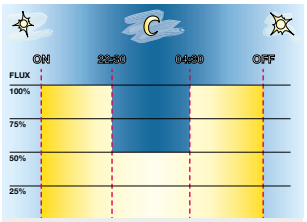
Average annual energy savings: 20%

Factory settings	
Time	**Flux**
on ÷ 22:00	100%
22:00 ÷ 23:30	75%
23:30 ÷ 02:30	50%
02:30 ÷ 04:00	75%
04:00 ÷ off	100%

ATTENTION: *original settings and time slots for the "virtual midnight" value can be customized in up to 8 steps upon request.*

Other configuration examples

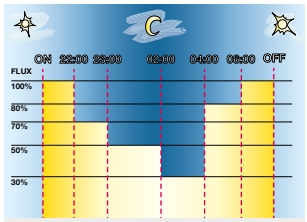
Virtual midnight in 2 steps subcode -35



Average annual energy savings: 26%

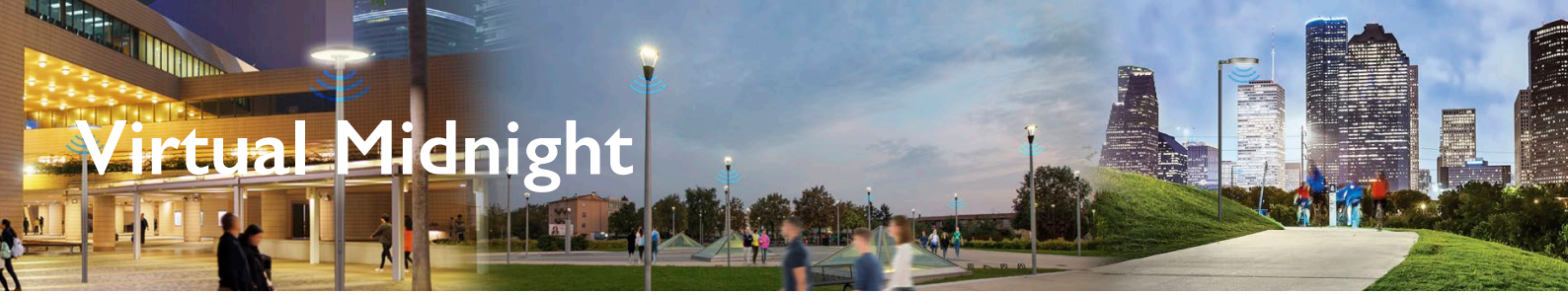
Settings upon request	
Time	**Flux**
on ÷ 22:30	100%
22:30 ÷ 04:30	50%
04:30 ÷ off	100%

Virtual midnight in 5 steps subcode -32



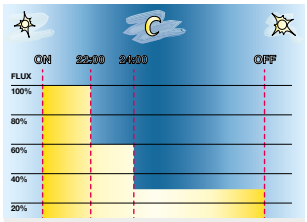
Average annual energy savings: 31%

Settings upon request	
Time	**Flux**
on ÷ 22:00	100%
22:00 ÷ 23:00	70%
23:00 ÷ 02:00	50%
02:00 ÷ 04:00	30%
04:00 ÷ 06:00	80%
06:00 ÷ off	100%



Virtual Midnight

Virtual midnight GREEN AREAS subcode -0001

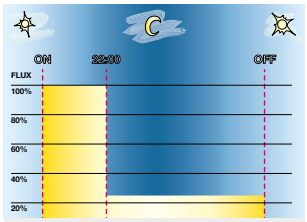


Average annual energy savings: 41%

Settings upon request	
Time	**Flux**
on ÷ 22:00	100%
22:00 ÷ 24:00	60%
24:00 ÷ off	30%

Ideal for green areas and parks, which are closed to the public at specific hours.

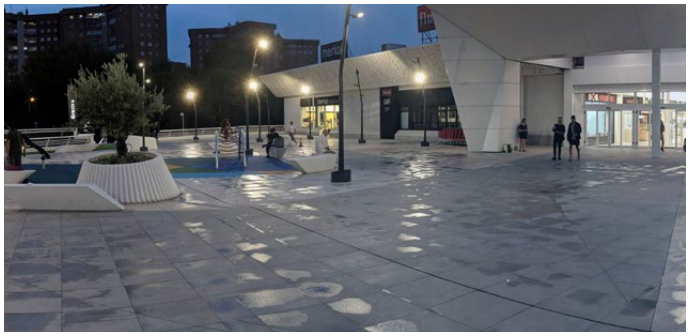
Virtual midnight SAFETY (PRIVATE PROPERTY) subcode -0002



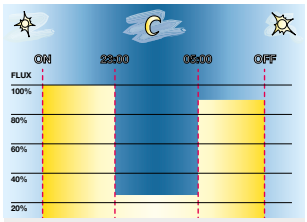
Average annual energy savings: 52%

Settings upon request	
Time	**Flux**
on ÷ 22:00	100%
22:00 ÷ off	25%

Ideal to maintain safety lights at workplaces, in which people/vehicles are not circulating after work hours.



Virtual midnight PRIVATE PROPERTY AND COMMERCIAL subcode -0003

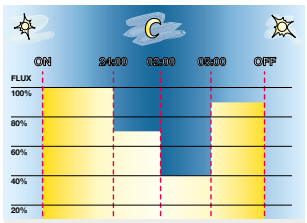


Average annual energy savings: 40%

Settings upon request	
Time	**Flux**
on ÷ 23:00	100%
23:00 ÷ 05:00	25%
05:00 ÷ off	90%

Ideal for private property and commercial areas after work hours.

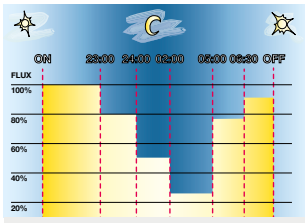
Virtual midnight METROPOLI (500.000 population) subcode -0005



Average annual energy savings: 22%

Settings upon request	
Time	**Flux**
on ÷ 24:00	100%
24:00 ÷ 02:00	70%
02:00 ÷ 05:00	40%
05:00 ÷ off	90%

Virtual midnight BIG CITY (200.000 population) subcode -0006

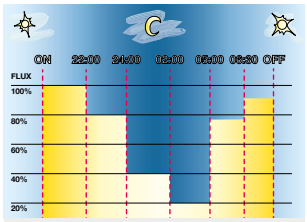


Average annual energy savings: 31%

Settings upon request	
Time	**Flux**
on ÷ 23:00	100%
23:00 ÷ 24:00	80%
24:00 ÷ 02:00	50%
02:00 ÷ 05:00	30%
05:00 ÷ 06:30	75%
06:30 ÷ off	90%

Virtual Midnight

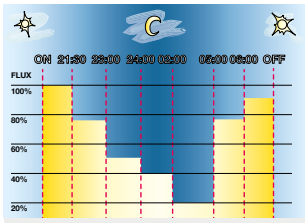
Virtual midnight CITY (50.000 population) subcode -0007



Average annual energy savings: 37%

Settings upon request	
Time	**Flux**
on ÷ 22:00	100%
22:00 ÷ 24:00	80%
24:00 ÷ 02:00	40%
02:00 ÷ 05:00	20%
05:00 ÷ 06:30	75%
06:30 ÷ off	90%

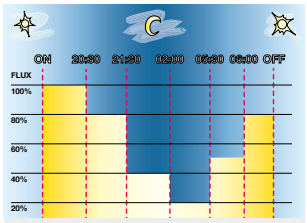
Virtual midnight TOWN (5.000 population) subcode -0008



Average annual energy savings: 41%

Settings upon request	
Time	**Flux**
on ÷ 21:30	100%
21:30 ÷ 23:00	75%
23:00 ÷ 24:00	50%
24:00 ÷ 02:00	40%
02:00 ÷ 05:00	20%
05:00 ÷ 06:00	75%
06:00 ÷ off	90%

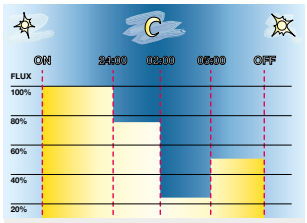
Virtual midnight VILLAGE (2.000 population) subcode -0009



Average annual energy savings: 50%

Settings upon request	
Time	**Flux**
on ÷ 20:30	100%
20:30 ÷ 21:30	80%
21:30 ÷ 02:00	40%
02:00 ÷ 05:00	20%
05:00 ÷ 06:00	50%
06:00 ÷ off	80%

Virtual midnight HIGH SEASONS subcode -0010

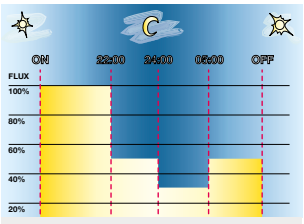


Average annual energy savings: 28%

Settings upon request	
Time	**Flux**
on ÷ 24:00	100%
24:00 ÷ 02:00	75%
02:00 ÷ 05:00	25%
05:00 ÷ off	50%

Ideal for tourist resorts during peak season periods (sea-summer; mountain-winter).

Virtual midnight LOW SEASONS subcode -0011

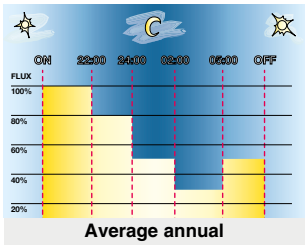


Average annual energy savings: 43%

Settings upon request	
Time	**Flux**
on ÷ 22:00	100%
22:00 ÷ 24:00	50%
24:00 ÷ 05:00	30%
05:00 ÷ off	50%

Ideal for tourist resorts during low season periods.

Virtual midnight FOUR SEASONS subcode -0012



Average annual energy savings: 35%

Settings upon request	
Time	**Flux**
on ÷ 22:00	100%
22:00 ÷ 24:00	80%
24:00 ÷ 02:00	50%
02:00 ÷ 05:00	30%
05:00 ÷ off	50%

Ideal for tourist resorts that do not need to reschedule their lighting times (compromise between high and low season).