**LIGHTING CONTROLS**

Generally, lighting management will be carried out by presence and brightness detectors. The type, the number, the brightness, and time delay adjustment values ​​will be adapted to the premises and to the controlled lighting sources. Circuits will be properly subdivided so that only dark areas are lit during the day. All detectors must be adjustable by remote control.

**Principles of operation and material requirements**

**1- Circulation, Halls, Stairwells Management:**

Automatic operation by presence and luminosity detector on 2/3 of the lighting, 1/3 on a control system not accessible to the public allowing compliance with EC6.1 regulations

Typical detector **PD4-M-1C-Corridor + Slaves** in ceiling mounting (recessed or surface-mounted depending on the nature of the ceiling) of the **BEG LUXOMAT** brand or technically equivalent and will have the following characteristics:



Degree / protection class: **SM: IP54 with base, FC: IP20/Class II/CE**

Detection area: h=2,50 m: **40 x 5 m across, 20 x 3 m towards, Ø 8 m vertical**

Switching power: **2300W cos φ 1/1150VA cos φ 0.5,** **LED 300W maxi**

Follow-up time: **30 s to 30 min or pulse /** Brightness: **10 to 2000 Lux**

**Permanent control of daylight and artificial light**

Applications: **Circulations**

**LC Plus 280°** wall-mounted detector of the brand **BEG LUXOMAT** or technically equivalent and will have the following characteristics:

Degree / protection class: **IP54/Class II/CE**

Detection area: h=2,50 m: **16 m across, 9 m towards, 2 m vertical**

Switching power: **2000W cos φ 1/1000VA cos φ 0.5,** **LED 250W maxi**

Follow-up time: **15 s to 16 min or pulse /** Brightness: **2 to 2500 Lux**

Applications: **Stair**

**2- Management of Small Rooms, Airlocks, and Sanitary facilities**:

Automatic operation by presence and luminosity detector

Detector type **PD3N-1C** for ceiling mounting (flush-mounted or surface-mounted depending on the nature of the ceiling) of the brand **BEG LUXOMAT** or technically equivalent and will have the following characteristics:

Protection class: **SM: IP44, FC: IP23/Class II/CE**

Detection area h=2.50 m: **Ø 10 m across, Ø 6 m towards, Ø 4 m activity seat**

Switching power: **2300W cos φ 1/1150VA cos φ 0.5, LED 300W max**

Follow-up time: **30 s to 30 min or pulse** / Brightness: **10 to 2000 Lux**

Applications: **Small rooms, airlocks, sanitary facilities**

**3- Parking Management:**

Automatic operation by presence detector on DALI dimmable luminaires. The lighting management system will control a maximum surface area of 500m² per level and will ensure that the lighting is lowered to the minimum regulatory threshold when the area is unoccupied. The lighting on each level can be forced on and off from the porter's lodge.

Detector type **PD4N-M-DACO-DALI 2 + Slaves** for ceiling mounting (recessed or surface mounting depending on the nature of the ceiling) of the brand **BEG LUXOMAT** or technically equivalent and will have the following characteristics:

Protection class: **SM: IP54 with surface-mounted accessory, FC: IP20/Class II/CE**

Detection area h=2.50 m: **Ø 24 m across, Ø8 m towards, Ø6,40 m seated**

Interface: **DALI 2 certified, digital driver control in broadcast mode**

Follow-up time: **1 to 150 min or pulse** / Brightness: **10 to 2500 Lux**

**Daylight-dependent constant dimming / 40 digital DALI drivers**

Settings: **Via bi-directional BEG-One smartphone application (read/write)**

Applications: **Car park circulation, Parking spaces**