**LIGHTING CONTROL**

Generally, the lighting will be controlled by presence and luminosity detectors or automatic luminaires. The nature of the detectors or automatic luminaires, the number, the brightness, and time settings shall be adapted to the premises and the lighting sources being controlled. Circuits shall be properly subdivided so that only dark areas are lit during the day. All detectors shall be adjustable by remote control.

**Operating principles and material requirements**

**1- Management of the entrance hall, common corridors, stairwells, airlocks, small rooms, outside areas and car park:**

Automatic operation by presence and luminosity detector

Detector type **PD4N-1C-C-FC** for ceiling mounting (recessed or surface mounting depending on the nature of the ceiling) associated with LED lights 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: **40 x 5 m across, 20 x 3 m towards, Ø8 m vertical**

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**

Surface mounted LED window "Round" type **AL8-25-300-LED-3C** or "Square" type **AL12-25-300-LED-3C** in ceiling mounting of the brand **BEG LUXOMAT** or technically equivalent and will have the following characteristics:

Protection class: **IK10 / IP54/Class II/CE**

LED power: **25w**, Lifetime: **> 50 000 H / L80 B10**

3 integrated colors temperatures: **3000K / 4000K / 5700K**

Luminous flux: **2000lms (3000K) / 2500lms (4000K) / 2400lms (5700K)**

Luminous efficacy: **80 / 100 / 96 lm/w**

CRI: **80**, Photobiological risks: **RG0**

Glare: **UGR< 25**

Applications: **Circulation**

Detector type **PD4N-1C-SM** for surface mounting on the ceiling of the brand **BEG LUXOMAT** or technically equivalent and will have the following characteristics:



Protection class: **SM: IP44**

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

Switching power: **2300W cos φ 1/1150VA cos φ 0.5, LED 3000W max**

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

Applications: **Parking**

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**

Surface mounted LED window " Round " type **AL8-25-300-LED-3C-Microwave** or " Square " type **AL12-25-300-LED-3C-HF** for wall or ceiling mounting of the brand BEG LUXOMAT or technically equivalent and will have the following characteristics

Protection class: **IK10 / IP20/Class II/CE**

LED power: **25w**, Lifetime: **> 50 000 H / L80 B10**

3 integrated colors temperatures: **3000K / 4000K / 5700K**

Luminous flux: **2000lms (3000K) / 2500lms (4000K) / 2400lms (5700K)**

Luminous efficacy: **80 / 100 / 96 lm/w**

CRI: **80**, Photobiological risks: **RG0**

Glare: **UGR< 25**

5.8 GHz microwave sensor

Detection zone for wall mounting h=1.50m: **Towardsal range from 1 to 6 m**

Detection zone for ceiling mounting h= 2.50m: **Towardsal range adjustable from Ø 2 to Ø 12 m**

Follow-up time: **20 s to 10 min or pulse** / Brightness: **5 to 50 Lux or Off**

Applications: **Entrance Hall / Stairwells / Airlock / Small rooms...**

**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: **Outdoor / Parking for wall mounting**

Surface mounted LED window "Round" type **AL93-20-300-LED-3C-Microwave** for ceiling mounting of the brand **BEG LUXOMAT** or technically equivalent and will have the following characteristics:

Protection class: **IK08 / IP54/Class II/CE**

Power: **20w, Lifetime: > 50 000 H L80 B10**

3 integrated colors temperatures: **3000K / 4000K / 5700K**

Luminous Flux: **1600lms (3000K) / 1850lms (4000K) / 1700lms (5700K)**

Luminous efficacy: **80 / 92 / 85 lm/w**

CRI: **80**, Photobiological risks: **RG0**

Glare: **UGR< 19**

**5.8 GHz microwave sensor**

Detection zone for wall mounting h=1.50m: **Towardsal range from 2 to 7 m**

Detection zone for ceiling mounting h= 2.50m: **Towardsal range adjustable from Ø 1 to Ø 8 m**

Follow-up time: **5 s to 30 min or pulse** / Brightness: **5 to 50 Lux or Off**

Applications: **Airlock / Household / Dustbin room / Cellar...**