

BLADE

Luminaire for Use in Logistics Centers



BLADE 380 R60 DELUXE HBPIR&LIGHT



BLADE 380 R60 DELUXE

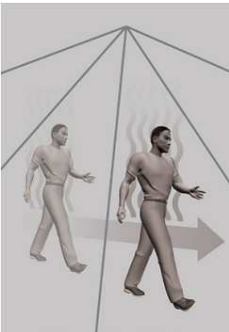


BLADE 280 T08 DELUXE HBPIR

Type:	Luminaire for high mounting applications between shelves or open areas.
Specification:	Narrow beam mirror aluminium reflector. Three versions available: without sensor, with PIR sensor or with PIR&DAYLIGHT sensor. IP54 version is made with clear polycarbonate diffuser (see option list) for protection from sprinklers water jet. White painted steel body. Luminaire is plastic-wrapped and packed individually.
Installation:	Surface mounted luminaire is designed to be fixed to ceiling of any type or suspended.
Application:	Indoor. For use in warehouse, production facilities, halls and logistics centers with ceiling heights of 10-12 meters and higher.



Surface Mounted **SHBPIR** Occupancy Sensor is designed simply to automatically turn lights ON or OFF. The sensor utilizes Passive Infrared Technology (PIR) combined with lenses to determine when an area is occupied. This is determined when a heat source is detected and moves from one facet in the lens to another. The sensor recognizes this as a motion and provides power to the light fixture. Simultaneously a timer is started and restarts with each motion, once expired, the lights will turn OFF. The **SHBPIR** sensor maximizes energy savings, incorporating false detection algorithms to eliminate false ONs by nuisance tripping or background environmental conditions. The sensor also optimizes energy savings and safety concerns during power loss scenarios by assuming a return to last known state of operation.



PASSIVE INFRARED (PIR)



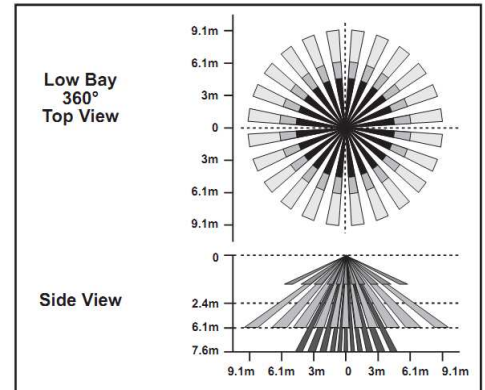
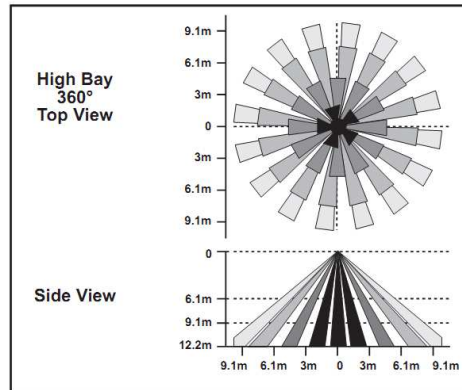
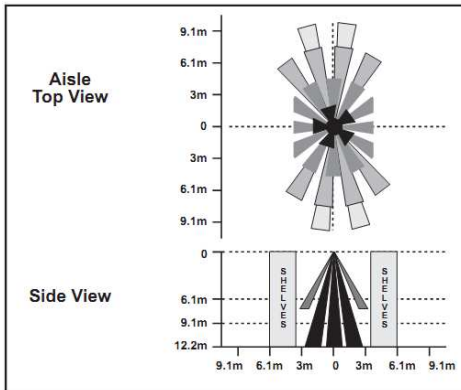
MICROWAVE (MW)

- DEFINITIONS:**
- Passive Infrared (PIR): A line of sight beam that reacts to heated motion across a field of view. It is a type of sensor technology, where no energy is emitted from the sensor.
 - Microwave (MW): It is a type of sensor technology, which sends out microwave pulses (active) and measures the reflection of a moving object. Similar to a police radar gun.



Fixture mounted **HBPIR** and **HBPIR&LIGHT** sensors provide fast installation and immediate energy savings by automatically activating lighting only during periods of occupancy. Reliable passive infrared (PIR) technology detects occupancy, and the variable time delay - up to 30 minutes - is user accessible without power, tools or disassembly, and allows the ideal setting based on application needs. Included with the sensor are lenses for high-bay, low-bay and aisle mounting, allowing one unit to cover a variety of applications. The innovative Autocal feature performs an automatic daylight level calibration. Once calibrated, the sensor requires no further adjustment and immediately enters daylight harvesting mode, actively switching the connected fixture load ON and OFF in response to occupancy and available natural light maximizing energy savings through efficient light harvesting.

FIELD OF VIEW



Fast and Simple Setting: The HBPIR does not require power to set the time delay saving valuable time during installation.

- Load = 30s - 30m

Fast and Simple Testing: The HBPIR will "instant on" within 5 seconds. Upon initial power, relay is closed enabling labor savings testing in seconds.

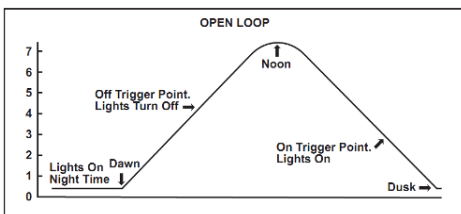
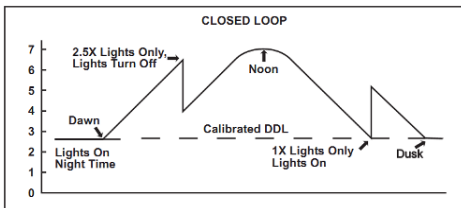
Power Interruption State: For energy savings and safety, if power is lost to device, device will return to last known state.

Range and Coverage:

- The 360° *high-bay PIR lens* provides a 2:1 spacing to mounting height coverage under 7,6 meters mounting and a 1.5:1 for heights up to 12,2 meters mounting.
- The 360° *low-bay lens* provides 2:1 spacing to mounting height coverage for 2,4 to 6,1 meters mounting.
- The *aisle lens* is designed to provide detection of 18,2 meters long by 6 meters wide for heights up to 12,2 meters mounting.

LED: Super bright green LED indicates occupancy detection and can be seen at 12,2 meters.

False Detection Protection: Energy saving technology is designed into the HBPIR to assure your lights are ON only when needed.



HBPIR&LIGHT SENSOR

Rotating Light Sensor: Optimal for best performance in locating light measurements (up, down and side lighting).

Auto Calibration: Set to auto-calibration, light sensor measures lowest light level of facility with all lights ON for 24 hours to determine the Daylighting Set Point.

Manual Calibration: Optimize energy savings and operation by manually configuring the Daylighting Set Point.

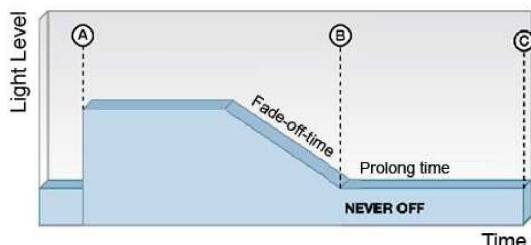
Performance Daylighting: Enhanced design algorithms to assure lights will not cycle during cloud cover, or varying light levels. (No more daylight = load turn OFF in +/- 5 minutes, Daylight returns = load will turn ON in +/- 1 minute).

COR OPTION

Automatic switching is based on presence/motion with the time delay set on site to suit the customers requirements, where no presence is detected the light level will fade from 100% down to 10% saving up to 60% of the energy usage.

The **COR** function does not abruptly switch off the lighting but dims it to a 10% level. Depending on the profile selected the device remains at this light level ("never off" profile) or switches off completely after the appropriate delay ("Switch off" profile).

This arrangement provides efficient energy savings in 24-hour applications where light is needed round the clock for safety reasons, for example in stairwells and corridors in public buildings, and in large apartment complexes, car parks, pedestrian underpasses, warehouses and underground railway stations.

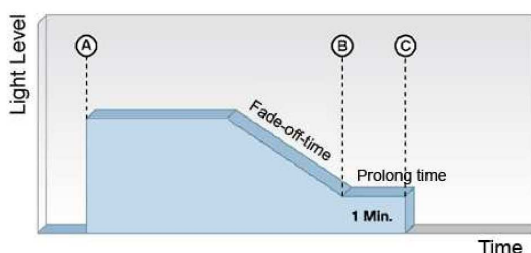


COR option

Standard profile "Never OFF" (A...100 %, B...10 %, Fade time 32 s, never OFF).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached.

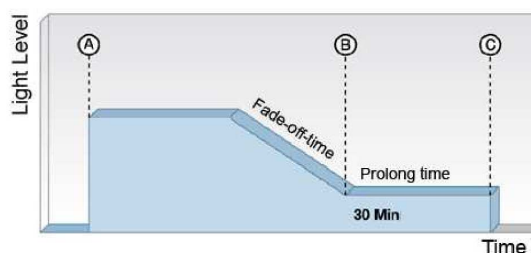
This corresponds to the default parameters.



COR1min option

Profile 2 "Switch off" (A...100 %, B...10 %, Fade time 32 s, switch off after 1 minute).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached and if presence is not detected in the next minute the ballast switches off completely.



COR30min option

Profile 3 "Switch off" (A...100 %, B...10 %, Fade time 32 s, switch off after 30 minutes).

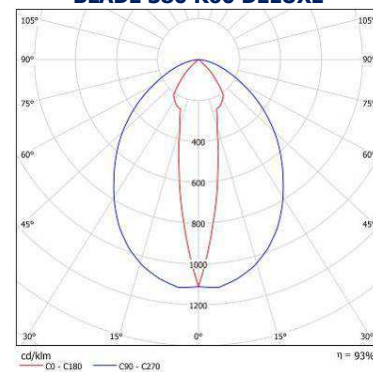
If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached and if presence is not detected in the next 30 minutes the ballast switches off completely.

Name	Lamp (W) and holder	Overall dimensions (LxWxH), mm	Weight, kg	Total wattage, W
Blade 135 T04 Deluxe	1x35 (G5)	1590x225x180	7,4	38
Blade 149 T05 Deluxe	1x49 (G5)	1590x225x180	7,4	53
Blade 180 R62 Deluxe	1x80 (G5)	1590x225x180	7,4	85
Blade 235 T06 Deluxe	2x35 (G5)	1590x225x180	7,4	75
Blade 249 T07 Deluxe	2x49 (G5)	1590x225x180	7,4	104
Blade 280 T08 Deluxe	2x80 (G5)	1590x225x180	7,5	170
Blade 335 R64 Deluxe	3x35 (G5)	1590x580x180	19,6	113
Blade 349 R65 Deluxe	3x49 (G5)	1590x580x180	19,6	157
Blade 380 R60 Deluxe	3x80 (G5)	1590x580x180	19,8	255
Blade 135235 R66 Deluxe	1x35+2x35 (G5)	1590x580x180	19,6	113
Blade 149249 R67 Deluxe	1x49+2x49 (G5)	1590x580x180	19,6	158
Blade 180280 R61 Deluxe	1x80+2x80 (G5)	1590x580x180	19,8	255

Options available on request:

- DIM- Dimmable ballast
- SDIM- Switch-control/dimming
- COR- Corridor function (never OFF)
- COR1min- Corridor function (switch OFF after 1 minute)
- COR30min- Corridor function (switch OFF after 30 minutes)
- DALI- DALI ballast
- EMG- Emergency version 1 hour
- EM3- Emergency version 3 hours
- 5TB- 5 way terminal block with two holes (for in and out going cable)
- Deluxe- MIRO4 reflector
- HBPIR- PIR sensor for high ceiling applications (<12 meters)
- HBPIR&LIGHT- PIR & LIGHT sensor for high ceiling applications (<12 meters)
- HBPIRCOLD- PIR sensor for cold storage (<12 meters)
- HBPIRCOLD&LIGHT- PIR & LIGHT sensor for cold storage (<12 meters)
- IP54- With PC diffuser and IP54 protection

BLADE 380 R60 DELUXE



Highbay fittings with metal halide lamp and energy consumptions of **440W** each before. Height 10-12 meters.



BLADE 380 R60 Deluxe COR HBPIR with energy consumptions from **76 to 255 W** each after. Height 10-12 meters.